Appendix

Appendix

Appendix A: Project Brief Appendix B: Context Research Appendix C: User Research Appendix D: User Interviews Appendix E: Analysis Appendix F: Creative Session Appendix G: Conceptualization Appendix H: Evaluation

DESIGN FOR M

IDE Master Graduation Project team, Procedural checks and personal Project brief

This document contains the agreements made between student and supervisory team about the student's IDE Master Graduation Project. This document can also include the involvement of an external organisation, however, it does not cover any legal employment relationship that the student and the client (might) agree upon. Next to that, this document facilitates the required procedural checks. In this document:

- The student defines the team, what he/she is going to do/deliver and how that will come about.
- SSC E&SA (Shared Service Center, Education & Student Affairs) reports on the student's registration and study progress.
- IDE's Board of Examiners confirms if the student is allowed to start the Graduation Project.

0 USE ADOBE ACROBAT READER TO OPEN. EDIT AND SAVE THIS DOCUMENT Download again and reopen in case you tried other software, such as Preview (Mac) or a webbrowser

STUDENT DATA & MASTER PROGRAMME

family name	Godo Blasco			_
initials	AG	given name	Alejandra	_
student number	4903714			_
street & no.				_ in
zipcode & city				_ 1
country				special
phone				_
email				_

SUPERVISORY TEAM **

** chair	Gert Pasman	dept. / section: _lr
** mentor	Gert Hans Berghuis	dept. / section: _lr
2 nd mentor	Daan Van Klinken	
	organisation: Flow Money Automa	tion
	city: Amsterdam	

comments (optional)

APPENDIX A: Project brief



Save this form according the format "IDE Master Graduation Project Brief_familyname_firstname_studentnumber_dd-mm-yyyy". Complete all blue parts of the form and include the approved Project Brief in your Graduation Report as Appendix 1 !

Your master programme (only select the options that apply to you):



ndustrial Design - DFI ndustrial Design - SPD

herlands

Chair should request the IDE Board of Examiners for approval of a non-IDE mentor, including a motivation letter and c.v..



0

Second mentor only applies in case the assignment is hosted by an external organisation.

I Ensure a heterogeneous team. In case you wish to include two team members from the same section, please explain why.

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Procedural Checks - IDE Master Graduation	
---	--

chair <u>Gert Pasman</u>	date	signature	
CHECK STUDY PROGRESS To be filled in by the SSC E&SA (Shared Service			rief by the Chair.
The study progress will be checked for a 2nd t	time just hefore the are	n light meeting	
The study progress will be showed for a 2nd	time just before the gre	n nght meeting.	
			r courses passed
Master electives no. of EC accumulated in tota Of which, taking the conditional requirement	al: <u>33</u> EC	TES all 1 st year maste	
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Master electives no. of EC accumulated in tota Of which, taking the conditional requirement into account, can be part of the exam programm List of electives obtained before the third	al: <u>33</u> EC	TES all 1 st year maste	

FORMAL APPROVAL GRADUATION PROJECT

To be filled in by the Board of Examiners of IDE TU Delft. Please check the supervisory team and study the parts of the brief marked **. Next, please assess, (dis)approve and sign this Project Brief, by using the criteria below.

- Does the project fit within the (MSc)-programme of the student (taking into account, if described, the activities done next to the obligatory MSc specific courses)?
- Is the level of the project challenging enough for a MSc IDE graduating student?
- Is the project expected to be doable within 100 working days/20 weeks ?
- Does the composition of the supervisory team comply with the regulations and fit the assignment ?

Content:	APPROVED	NOT APPROVED
Procedure:	APPROVED	NOT APPROVED
		comments

name	date	signature	
IDE TU Delft - E&SA Department /// Graduation	project brief & study overv	iew /// 2018-01 v30	Page 2 of 7
Initials & Name <u>AG</u> Godo Blasco		Student number <u>4903714</u>	
Title of Project <u>Design a digital product for</u>	positive financial behavi	or	

 dedicated app that features interesting presets that help you automatically transfer it to other accounts. Flow uses API's to application (PISP and AISP) at the Dutch Central Bank, and are project will be completed under the supervision of Flow More designer Daan Van Klinken. Daan Van Klinken and Niels Mulce HikeOne. During the project, there is a significant chance that Finance can be difficult. Some people have a knack for it, wh numbers. Basic financial planning and wisdom are not things the person and their upbringing if they're capable of plannin people who are not good at financial planning. For them, the understanding of what comes in and goes out. As Flow's Figure 1 explains, there are 3 factors that can affect the behavior feedback. What Flow believes is that, going far i influencing financial behavior. For example, showing too ma spending too much in X) can lead to frustration in their own researched. With this graduation project I want to help people (age/finar their financial situation in the long term (e.g. 65 y.o.), by guid y.o.). There's a miss-match between the current self, which is focur future self, that wants to have enough to fulfill his needs. For this goal to be achieved, it is important that we can conv taking care of the future self. Because individuals have their h problems, they can't focus on investing in themselves for the introducing advice on what they should do to improve their 		Personal Project Brief - IDE Master Graduation
Do not use abbreviations. The remainder of this document allows you start date 20 - 03 - 2020 INTRODUCTION ** Please describe, the context of your project, and address the main state complete manner. Who are involved, what do they value and how do to main opportunities and limitations you are currently aware of (cultural edicated app that features interesting presets that help you automatically transfer it to other accounts. Flow uses API's to application (PISP and AISP) at the Dutch Central Bank, and ar project will be completed under the supervision of Flow More designer Daan Van Klinken. Daan Van Klinken and Niels Muld HikeOne. During the project, there is a significant chance that help who are not good at financial planning. For them, the understanding of what comes in and goes out. As Flow's Figure 1 explains, there are 3 factors that can affect the behavior feedback. What Flow believes is that, going far i finduencing financial behavior. For example, showing too ma spending too much in X) can lead to frustration in their own researched. With this graduation project I want to help people (age/finar their financial situation in the long term (e.g. 65 y.o.), by guid y.o.). There's a miss-match between the current self, which is focur future self, that wants to have enough to fulfill his needs.		Design a digital product for positive financi
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		 Flow Money Automation B.V. is a FinTech start-up created on dedicated app that features interesting presets that help you automatically transfer it to other accounts. Flow uses API's to application (PISP and AISP) at the Dutch Central Bank, and are project will be completed under the supervision of Flow Mor designer Daan Van Klinken. Daan Van Klinken and Niels Mulch HikeOne. During the project, there is a significant chance that Finance can be difficult. Some people have a knack for it, whi numbers. Basic financial planning and wisdom are not things the person and their upbringing if they're capable of plannin people who are not good at financial planning. For them, the understanding of what comes in and goes out. As Flow's Figure 1 explains, there are 3 factors that can affect the behavior feedback. What Flow believes is that, going far i influencing financial behavior. For example, showing too mar spending too much in X) can lead to frustration in their own researched. With this graduation project I want to help people (age/finan their financial situation in the long term (e.g. 65 y.o.), by guidi y.o.). There's a miss-match between the current self, which is focus future self, that wants to have enough to fulfill his needs. For this goal to be achieved, it is important that we can convitaking care of the future self. Because individuals have their h problems, they can't focus on investing in themselves for the Introducing advice on what they should do to improve their motivation. Instead, introducing the first steps they can take intervent to the steps they can take intervent to the steps they can take into a step of the first steps they can take into a step of the first steps they can take into a step of the first steps they can take into a step of the first steps they can take into a step of the first steps they can take into a step of the first steps they can take into a step of the first steps they can take into a step of the first step of the first step of the

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IDE TU Delft - E8	SA Depar	tment /// Graduation project brief	& st
Initials & Name	AG	Godo Blasco	
Title of Project	Design a	a digital product for positive fina	ancia



ncial behavior

project title

art date and end date (below). Keep the title compact and simple. you to define and clarify your graduation project.

07 - 09 - 2020

end date

stakeholders (interests) within this context in a concise yet do they currently operate within the given context? What are the tural- and social norms, resources (time, money,...), technology, ...).

d on 2018 by Daan van Klinken and Niels Mulder. Flow is a you automate your money life. If money comes in, Flow can s to connect to the bank. Currently, Flow handed in the PSD2 d are waiting to get approval to go live. This graduation Money Automation's 'Product' Team, in particular the Aulder have been working previously in the design studio that HikeOne design studio will be involved.

while others are totally lost when they see too many ings that are being taught in schools, hence it really differs on nning their finances well. Therefore, there is a big group of , their bank account is one big black box. And they lack

fect the behavioral change in finances: insights, actions and far in either direction can create a negative impact in many wrong examples of things people did in the past (e.g. wn behavior. During the project, these 3 factors will be

inancial state to be defined during the research) to improve uiding them in what they can do today, right now (e.g. 25

ocused on short term problems recurring monthly, and the

onvince the current self the importance of investing and eir hands full with short term goals, recurring financial the long term.

heir long term, can have a negative impact on their ake right way to lift them out of their situation can help them

study overview /// 2018-01 v30

____ Student number _4903714

Page 3 of 7

ial behavior

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Personal Project Brief - IDE Master Graduation

introduction (continued): space for images

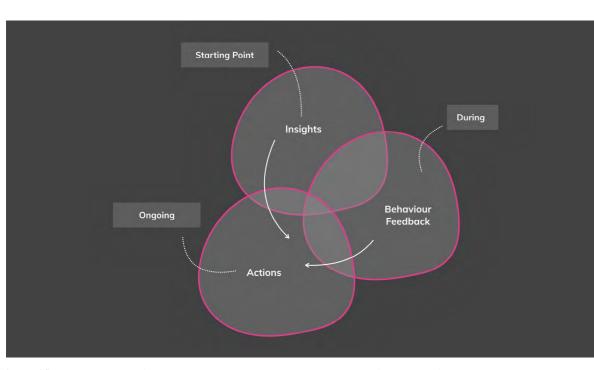
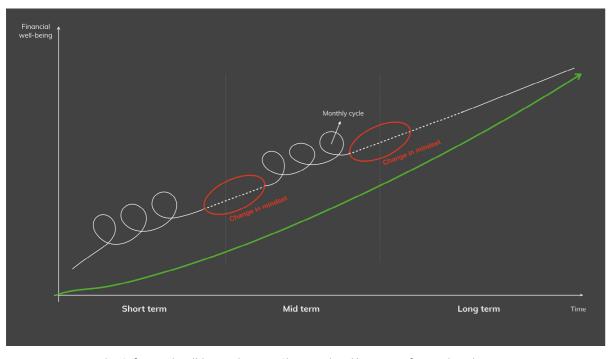


image / figure 1: Flow's 3 factors diagram: insights, actions and behavior feedback in finances.





IDE TU Delft - E&SA Department /// Graduation project brief & study overview /// 2018-01 v30		
Initials & Name AG Godo Blasco	Student number <u>4903714</u>	
Title of Project		

Personal Project Brief - IDE Master Graduation

PROBLEM DEFINITION ** Limit and define the scope and solution space of your project to one the EC (= 20 full time weeks or 100 working days) and clearly indicate what
The problem with getting caught in a cycle of short term prof without being able to invest in the future self, leads to not bei long term financial vision leads to negative financial experience In this graduation thesis, I want to design a digital product that positive financial behavior. This digital tool should help peopl How to create a positive influence in people's financial behav To answer the main question, sub-questions have been formu 1. What is financial behavior? What is a positive/negative finan 2. Why do some people get stuck focusing on short term finan 3. Which group of people need/want to change their behavio 4. What is a positive influence? And how to create influence o 5. How to create behavioral change in general (brief)? And ho 6. How to make people focus on long term financial goals? 7. Are people already following the 'going up' (green light)? If 8. How can the situation be improved through design? How co

ASSIGNMENT **

State in 2 or 3 sentences what you are going to research, design, create and / or generate, that will solve (part of) the issue(s) pointed out in "problem definition". Then illustrate this assignment by indicating what kind of solution you expect and / or aim to deliver, for instance: a product, a product-service combination, a strategy illustrated through product or product-service combination ideas, In case of a Specialisation and/or Annotation, make sure the assignment reflects this/these.

L will research the possibilities of influencing people's financial behavior. Insights will be generated from interviews, surveys and generative sessions to find the needs and wishes of the target group. With these insights I will design a digital product/feature that aims to improve the problem.

IDE TU Delft - E8	SA Depar	tment /// Graduation project brief	& study o
Initials & Name	AG	Godo Blasco	
Title of Project	Design a	a digital product for positive fina	ancial beł



hat is manageable within one Master Graduation Project of 30 at issue(s) should be addressed in this project.

oblems and having difficulties to get out of this cycle, eing able to have a long term vision. Therefore, a lack of nces.

hat improves this situation influencing people with a ple to look into a long term vision.

vior through design?

nulated:

ancial behavior? How does it differ and why? ancial problems, month after month? ior? Why? In which financial state the biggest group is? on other people's decisions? What are the limitations? now to apply this to the domain of financial behavior?

If yes, what is their secret? could a digital tool help improving the financial behavior?

overview /// 2018-01 v30

Page 5 of 7

Student number 4903714

ehavior

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Personal Project Brief - IDE Master Graduation

Include a Gantt Chart (replace the example below - more examples can be found in Manual 2) that shows the different phases of your project, deliverables you have in mind, meetings, and how you plan to spend your time. Please note that all activities should fit within the given net time of 30 EC = 20 full time weeks or 100 working days, and your planning should include a kick-off meeting, mid-term meeting, green light meeting and graduation ceremony. Illustrate your Gantt Chart by, for instance, explaining your approach, and please indicate periods of part-time activities and/or periods of not spending time on your graduation project, if any, for instance because of holidays or parallel activities. PLANNING AND APPROACH ** start date 20 - 3 - 2020 <u>7 - 9 - 2020</u> end date 10 11 14 17 18 9 18 11 12 13 23 24 25 28< TIMING TU Delft calendar week Daws Project month Project week MEETINGS Chair, mentor, company KICK-OFF Quarterly Meeting Midtern evaluation OrendyN Final presentation MAIN ACTIVITIES PREPARATION And a second sec A variety of tools and methods are going to be used to complete this assignment. Most of these tools will have been taught during the Design for Interaction master degree in the Industrial Design Engineering faculty. An important part of getting to the solution of a problem with human-centered design is to find usable insights by discovering latent needs co-creating these into a design. This research is set up in 3 general phases. First, the preliminary research followed by the primary research and then the creation phase. During the preliminary research I will be doing literature research on financial behavior and methods to create a positive influence on it, as well as conducting interviews to find out how different people deal with the money management, getting a clear overview of all the tasks, roles, responsibilities and tools. In my primary research, I will be using path of expression interviewing to gather explicit knowledge and further my insights with generative sessions to find tacit and latent needs (Sanders et al. 2012). During my creation phase I will use creative sessions like co-design and co-create.

 IDE TU Delft - E&SA Department /// Graduation project brief & study overview /// 2018-01 v30
 Page 6 of 7

 Initials & Name
 AG
 Godo Blasco
 Student number 4903714

 Title of Project
 Design a digital product for positive financial behavior
 Enderstand

Appendix B: Context Research

Financial capability: Having financial knowledge may influence better behaviours that lead to financial well-being.

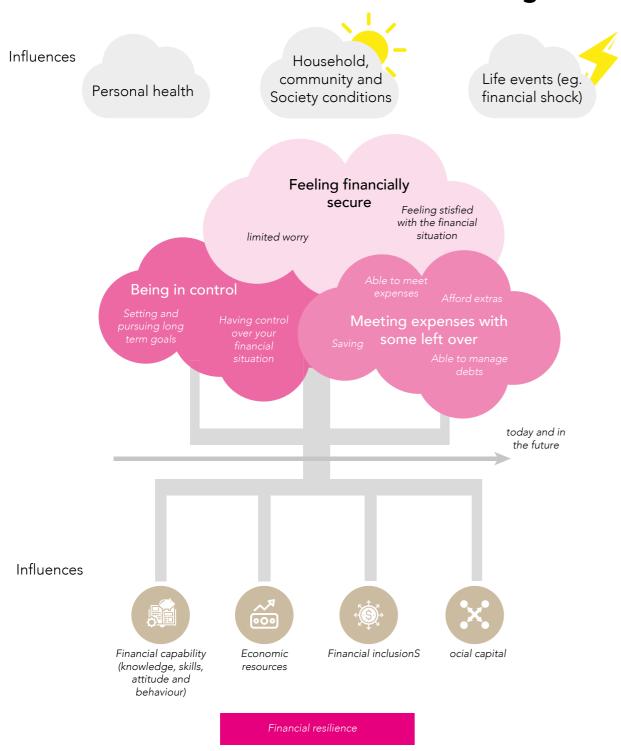
Financial inclusion: Having access to financial services like a bank account, insurance and line of credit, makes it easier for having financial well-being.

Social capital is the support from friends, family and community services to cover basic needs and expenses.

Economic resources: Income is fundamental for having financial-well-being. The amount, the stability and the source of the income are relevant.

Health: Being healthy inside and outside is important for financial well-being.

Household: The socio-economic status of the community or neighbourhood someone lives affects to the financial-well-being.



Financial health and well-being

Sur 82 respo	vey about Personal financ
Sex 82 out o	f 82 answered
1	Female
2	Male
3	Prefer not to say

03/04/2020

APPENDIX C: User research

ces

52% / 43 resp.

47% / 39 resp.

0% / 0 resp.

020		Survey about Personal finances			
Marital status 32 out of 82 a				Y	Are you financially inde 82 out of 82 answered
1 S	ingle	47% / 39	resp.	1	Yes
2 Ir	n a relationship	42% / 35	resp.		Partially dependent
3 M	Iarried	9% / 8	resp.	2	
4 D	Vivorced	0% / 0	resp.	3	No
0	Other	0% / 0	resp.	4	Other
5					•



Do you have children? 82 out of 82 answered

14% / 12 resp. Yes 1 85% / 70 resp. No 2

lent?

46% / 38 resp.
30% / 25 resp.
23% / 19 resp.
0% / 0 resp.

82 out of 82 answered

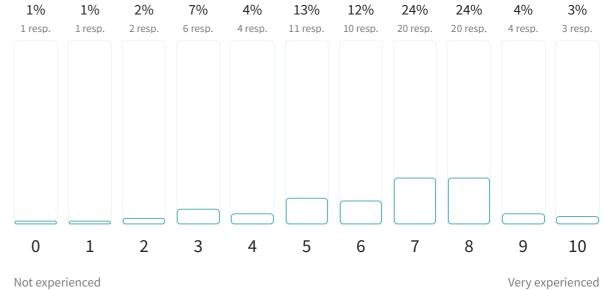
Your current professional situation

1	Working full-time	35% / 29 resp.
2	Studying full-time	23% / 19 resp.
3	Studying part-time, working part-time	18% / 15 resp.
4	Working part-time	9% / 8 resp.
5	Other	7% / 6 resp.
6	Freelancing	6% / 5 resp.

How experienced are you with personal finance. Please rate from 0 to 10.

82 out of 82 answered

6.3 Average rating



Not experienced



82 out of 82 answered

1	Yes
_	
2	No
_	

Have you ever taken any professional advice on managing your personal finances?



Have you ever felt negatively surprised when looking at your bank account? 82 out of 82 answered

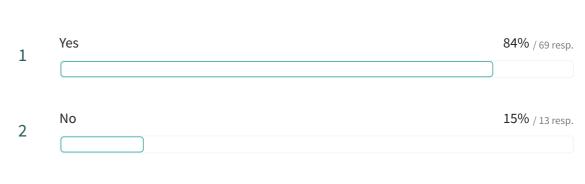
72% / 59 resp. Yes 1 28% / 23 resp. No 2



03/04/2020

Do you save money?

82 out of 82 answered



Have you ever made mistakes with your money?

82 out of 82 answered



If not, why don't you save?

0 out of 82 answered

Nobody answered this question yet

03/04/2020

Survey about Personal finances

If yes, what proportion of your income do you generally try to save?

15 out of 82 answered

If yes...Great! What are you saving for?

16 out of 82 answered

1	Unexpected events	40% / 28 resp.
2	A trip	17% / 12 resp.
3	A big purchase	12% / 9 resp.
4	My children's schooling	4% / 3 resp.
5	My retirement	2% / 2 resp.
6	Other	22% / 16 resp.

1	25%
2	50%
3	Practically none
4	75%
5	Nearly all
6	Other

41% / 29 resp.

21% / 15 resp.

11% / 8 resp.

2% / 2 resp.

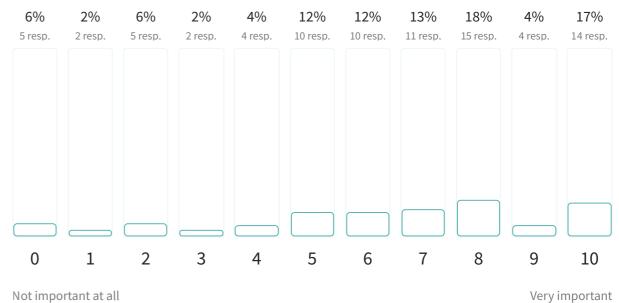
1% / 1 resp.

21% / 15 resp.

Survey about Personal finances

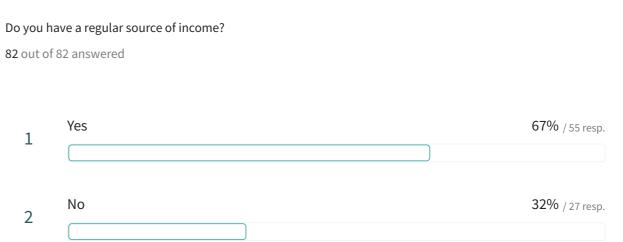
How important is it for you to save for retirement? 82 out of 82 answered

6.3 Average rating



Not important at all

82 out of 82 answered



6 out of 82 answered

If yes, how do you save?

1	A fixed amount each time	41% / 29 resp.
2	Whatever I can spare at the time	38% / 27 resp.
3	When I have some unexpected extra income	11% / 8 resp.
4	Other	8% / 6 resp.

If not, why is your income irregular?

I am a freelancer

I work varying hours at my job

I am currently between jobs

I have a passive source of income that varies

9 out of 82 answered

1

2

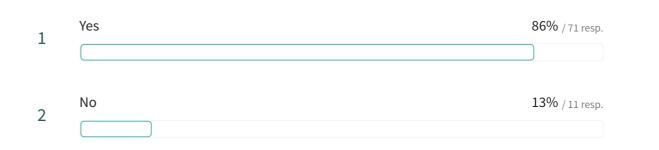
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5

In general, do you consider that you have self-control?

82 out of 82 answered



Other

Do you budget your expenses?

82 out of 82 answered

1	Yes	57% / 47 resp.
-		
2	No	42% / 35 resp.

 $https://flowyourmoney.typeform.com/report/H0RQty/QNRWIqDta06xpqDq?view_mode=print$

26% / 8 resp.

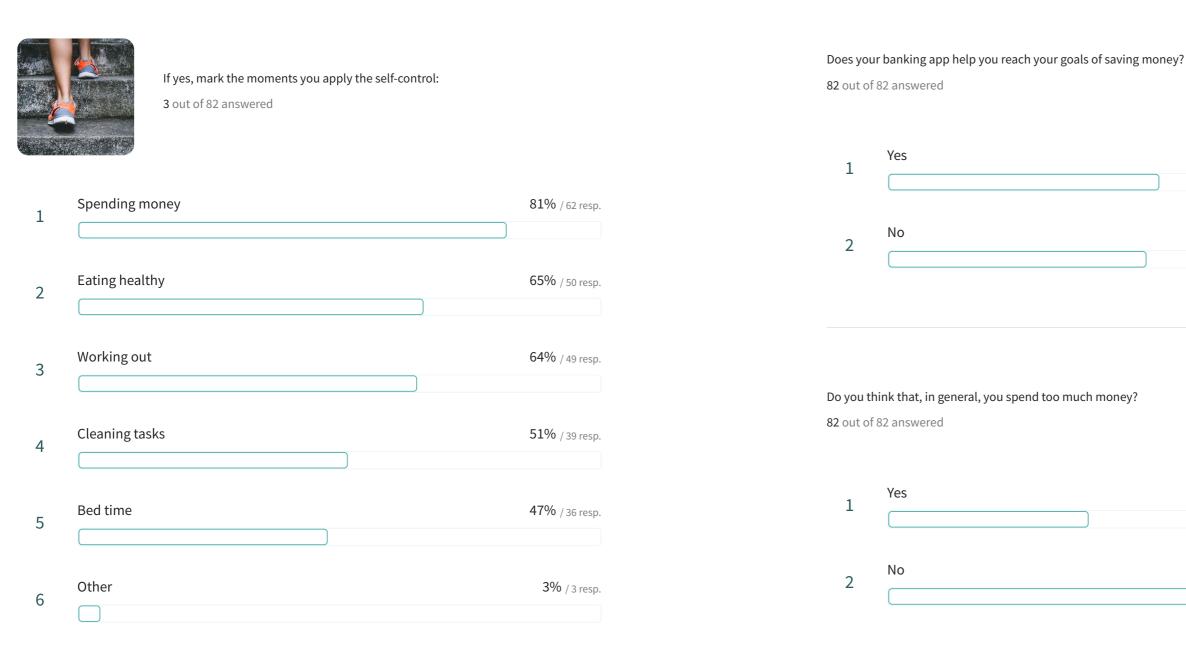
20% / 6 resp.

13% / 4 resp.

10% / 3 resp.

30% / 9 resp.

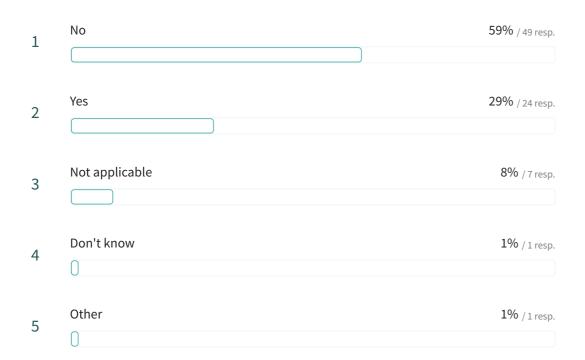
03/04/2020



	51% / 42 resp.
	48% / 40 resp.
?	
	37% / 31 resp.
	62% / 51 resp.

Sometimes people find that their income does not quite cover their living costs. In the last 12 months, this has happened to you?

82 out of 82 answered



Do you have long term financial goals? 82 out of 82 answered

Yes 1 No 2

Do you have short term financial goals?

82 out of 82 answered



https://flowyourmoney.typeform.com/report/H0RQty/QNRWIqDta06xpqDq?view_mode=print

59% / 49 resp.

40% / 33 resp.

03/04/2020	
03/04/2020	

Survey about Personal finances

			03/04/2020	Survey a
any mor	st your main source of income how long could you continue to cover liv ney? 82 answered	ing expenses, without borrowing	What would describe best your ap 1 out of 82 answered	proach to future financial
1	More than six months	31% / 26 resp.	Slow and steady wi	ns the race
2	At least three months, but not six months	30% / 25 resp.	2 I have an even bala	nce between risk and p
3	At least one month, but not three months	22% / 18 resp.	3 I'd like to be more o	autious, but I have a lo
4	Don't know	7% / 6 resp.	4 I'm comfortable wi	th the risks associated v
5	At least a week, but not one month	4% / 4 resp.	5 Don't save/invest/c	on't have a plan
6	Less than a week	0% / 0 resp.	6 I am high, and am p	oursuing as much growt
7	Other	3% / 3 resp.	7 Other	

l goals?

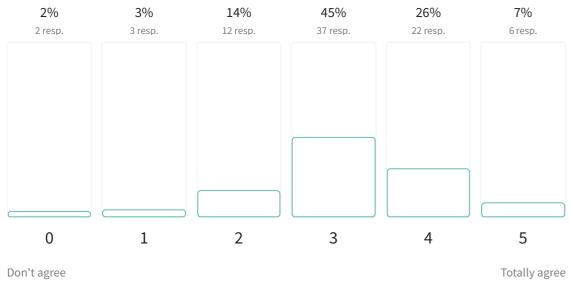
	30% / 25 resp.
protection	24% / 20 resp.
lot of catching up to do	14% / 12 resp.
d with growth strategies	12% / 10 resp.
	8% / 7 resp.
wth as possible	8% / 7 resp.
	1% / 1 resp.

Survey about Personal finances

Money is there to be spent

82 out of 82 answered

3.1 Average rating

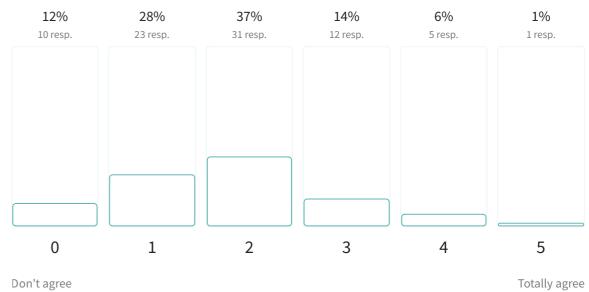


03/04/2020

I tend to live for today and let tomorrow take care of itself

82 out of 82 answered

1.8 Average rating



Don't agree

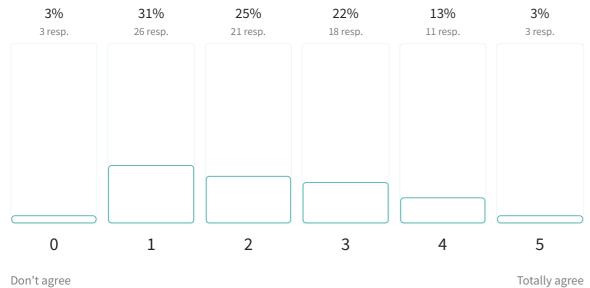
82 out of 82 answered

2.2 Average rating

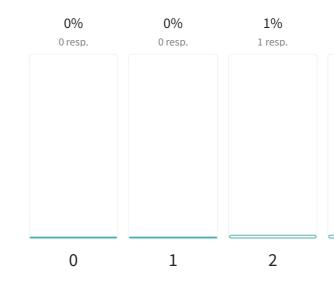
I pay my bills on time

82 out of 82 answered

4.8 Average rating



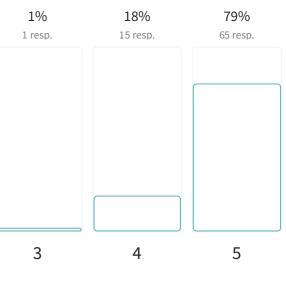
I find it more satisfying to spend money than to save it for the long term



Don't agree

Don't agree

 $https://flowyourmoney.typeform.com/report/H0RQty/QNRWIqDta06xpqDq?view_mode=print$



Totally agree

03/04/2020

I am prepared to risk some of my own money when making an investment

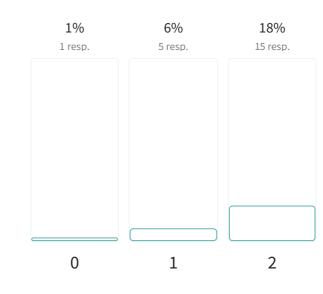
82 out of 82 answered

3.1 Average rating

I keep a close personal watch on my financial affairs

82 out of 82 answered

3.5 Average rating

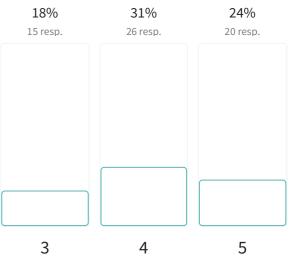


Don't agree

1% 11% 20% 26% 23% 17% 1 resp. 9 resp. 17 resp. 22 resp. 19 resp. 14 resp. 0 2 3 5 1 4

Don't agree

Totally agree



Totally agree

Interview about Personal Finances

Hi there! Thank you for taking the time to participate in this interview.

The goal of this interview is to answer the main research questions for my master thesis. The topic is 'Design a digital product for personal financial behaviour'.

In this interview, there is no right or wrong answer. I'm not testing your ability to do something, but my hypothesis about the financial behaviour of people.

Name (optional)	
Age	
Nationality	
Sex	
Education	
Occupancy	
Civil state	

APPENDIX D: User interviews

Personal questions (questions to be asked in an informal conversation).

- Can you tell me about your hobbies?
- Do you work out regularly?
- Could you please tell me about your marital status? Do you have kids?
- Do you rent a house? Or do you own a house? • When did you buy it?
- Are you living alone, or with someone else?
- Could you tell me 3 favourite apps you use on a daily basis?
- Do you use any app/website to help you manage your money?
- What does a typical week look like? And a weekend?
 - Do you have breakfast at home? Or on-the-go?
 - Do you buy groceries online? Or how?
 - Do you eat out regularly?
 - How do you get to work?
- Could you tell me what you do for a living? Are you employed or freelancing?

- If freelancer, do you have a regular freelance income? Or a variable?
- If freelance, what kind of projects do you do?
- If freelancer, How do you pay yourself as a freelancer? Do you give yourself a salary? How did you come up with this number?
- If they say yes, ask the question; So what's your net salary you give yourself?

Of course, I am working on a financial topic, so I have some questions that are a bit more personal. You know we are working for a company that takes privacy very seriously, so all information will be treated confidentially..' Let's talk about your financial situation.

Financial behaviour

- Could you rate from 1-10 your financial knowledge? Why?
- Do you think that money is important? Why?
- Do you think you manage well your money? What could be improved?
- What money mistakes have you made along the way that others can learn from?
- How often do you look at your bank account? Why?

Zooming in...

- Could you tell me about your monthly income? (Netto, "the money you actually receive on your account every month").
 - A. Less than 1k/month
 - B. Between 2k-3k
 - C. Between 3k-4k
 - D. Between 4k-5k
 - E. More than 5k
- Do you know how much you spend every month?
 - How do you feel about that?
 - Do you know how come / what the causes are for this?
 - Do you know how to fix it?

Spending and saving money

- What triggers you to spend money?
 - In what things do you like to spend your money?
 - Do you know how much money you spend on a regular day?
 - And in groceries?
 - And eating out?
 - And in life maintenance (mortgage,etc)?

- And in apps/technology?
- And in transport?
- Which is your guilty pleasure to spend money on?
 - Do you know how much money you spend on coffee?
- Do you think you spend too much money? On which things? Why?
- How could you spend less money? What would you change? 0
- How do you feel when you spend money? 0
- Tell me about what went through your head the last time you bought 0 something expensive?
- Do you save money?
 - Why?
 - Do you have a strategy for this?

 - What triggers you to save money?
 - What do you plan to do with the money you are saving?
 - What would you do in the short term with the money saved?
 - And what would you do in the long term with the money saved?
 - How did you feel the last time you reached your saving goals?
 - money?
 - In which other things do you apply self-control?

The future self

- Do you have plans for your own future?
 - Do you know how to achieve that?
 - Are taking steps/actions towards that already?
 - Do you feel you are on the right track?
 - Why/why not?
 - Do you know what you should change?
- Do you invest money? How do you do it? Why/why not?
- Did you think about your pension?
 - Would you like to retire at age x? Or sooner?

• Do you save a specific amount/percentage every month to save money?

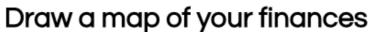
• Do you consider yourself a person with self-control, when talking about

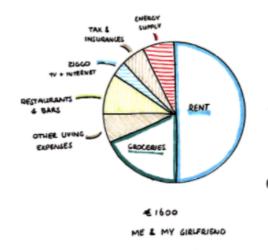
Tools

- Have you looked into solutions to manage your money better?
- Have you thought about budgeting?
- Would you like to use an app that could help you reach your goals? •
- How would you imagine this app?
- From the 3 apps that you mentioned before, what do you like so much about them?
- Do you use any tools to help you save money? Why/why not/ which ones?
 - Do these tools help you to reach your financial goals? Why or why not?
 - What did you like most about them?
 - And what did you dislike the most?

Hypothetical situations

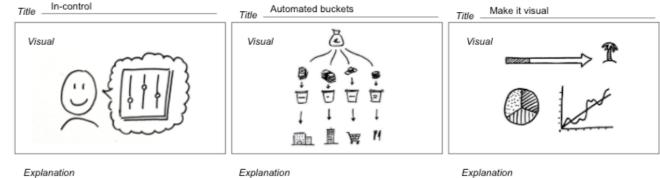
- What would you do if you won a prize of 10k euros?
- What would you do if you would win the 1M euros? •
- Do you know about the FIRE movement? Imagine that your goal is to be FIRE (financially independent, retired early) which strategy would you follow?





My desired financial management

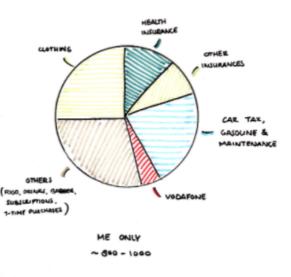
Describe 3 desired qualities that your ideal money management tools will be. Put them on the box below and explain your idea



Explanation

I want a system that works for me and automates as much as possible. I want smart suggestions, but in the end I always want to be in-control. I want to be confident about my finance.

When money is coming in, I want it in the right buckets directly. Also I want my payments coming out of the right bucket, so I don't have to worry about that.



Explanation

Numbers are quite abstract. "How am I doing?" might translate better to a clear and motivating visual than to a single number. Also think about things like social proof, "How am I doing compared to my peers?", "How much money do I need for a 3-week vacation?", etc.

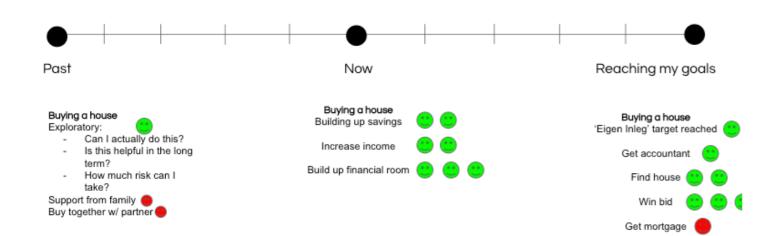
A route towards my financial goals



Do you have long term financial goals? Which ones? Buying a house;

Could you draw in the following format, the different actions you have been taking in the past, now, and planning to take in the future in order to reach your financial goals?

Please mark with a Red or Green color each action depending on if it is a positive or negative emotion.





25-35 y.o. Target users

Flow



"I like the idea of Flow, I seeald definitely saw it. However, there's rating that I surf. de monif that they solve."

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Leonard Rapper 32 Consident



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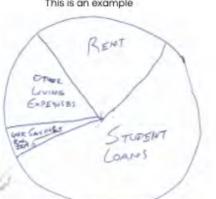


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Draw a map of your finances Points scored Subscriptions 2.2% Savings Living 20.0% Housing 18.01

This is an example





User experts





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"Flow is not solving mything that peop san't sobre themselves"

"UX Design is one of flow's strenghts. "

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"Flow is not that ecentary now that Bung released the sorting feature.

Spending

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"I shou't basiget my memory. I just watch have precis is left in the and of the mentils. If it's not enough, then I get memory from my melogy account. "

Martin Fagues, 25, Destupis chalges at UV



"During my flot A years of scriding (25-29 yea) I used to live short on manage I scald speed all my money or more that I surred. When I was 29 year, I started scraying short money, bacance I melloci I soom't using anything and my income one lights."

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Saving



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12

ماند تعادل الله : ماند به خفا المان مثلا و مطالب

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"During my first yours of searling 1 used to Bue short on moneys I searld

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Current tools



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استوعا الذواعية الموطعة



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سنطلحاذ فبالعادية



مخطوخا الزاحة الإكريجية



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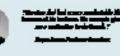


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Financial behaviour

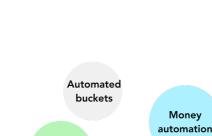








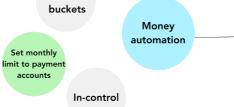




A digital and

trustworthy

accountant

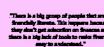


Financial education



Desired tools

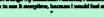




"There is a big group of people that area's franchily Route. This impacts because they don't get education on frances and there is a kig lack of tools to ratio frances



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"My defined tool would be to have a digital movement. Jure external districting Perform comparise are able to comparise are able to

Money Management



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what?

Key information



APPENDIX E: Analysis

"Banking apps are not going to fly with our generation."

"My banking app does help me to manage m money better."

"My budgeting account in excel give me inflows and outflows of my finances briefly, and this way I can reach my goals

because I can take action directly (move money to my savings accounts e.g. trips, mortgage, etc). The other apps helped me get an overview but from the moment I got it I didn't take the action. "

"The ING app makes m do everything manually put manually the mone on a bucket for my holidays, but that coul be automatically done a soon as the income com in. "

You can have aims, you block money outside y current bank account so don't spend it, they dee atterns telling you when nonthly money goes to house bills, activities, s clothing, etc)

Paying twice for something that I could have avoided

uying things I don't nee forgetting to cancel subscriptions

"I don't have a set amou of income every month, is flexible normally."

"I don't budget. I have monthly allowance in n head. Usually I oversper I think because I don't track it. "

he more you earn, the re you spend. It's real crazy. "

"Because of being an entrepreneur, right nov can't focus on long-ter goals, just in short-tern goals.

"I used to spend all my money when I was in m 30's. When I moved wit my partner it positive influenced me in my finances."

When I didn't keep track o my bank balance for a long time and it turned out to b ridiculously low.

Sometimes I forget that Healthcare still has to be collected, and then suddenly my account is a little lower than before.

Forgot a larger payment and then thought "where did all that money go??"

bank account because I am not so good with money. This means that whenever I open my bankaccount the amount is usually lower than

Flow is not s nything that people can't solve themselves"

"UX Design is one flow's strenghts. '

"I would like to use tool that automates my money. "

"Flow is not that necessary now that Bunq released the sorting feature. "

"Having the overview of all subscriptions and end day would be awesome "

The budget for the month was gone when the month was not. Big one-off (for m feeling) tax bills came in. Insurance companies who charge one month ahead (ar thus charge double in the fir

Sometimes. Not accurate enough. I Budget the house, the bills, the petrol... I find more complicated to budget food as it depends on seasons, what we eat at the time and spare time to cook.

o much work/lazy/scar for the realization

It takes a lot of time to do it manually. I know there are apps for that but I don't trust them since they should get the permission to access my bank account

"If I can save something would do it for the long-term (for example paying the university of my son), but for the short-term (holidays) would just use a credit

"Right now I am liv from paycheck to paycheck."

amount every month don't have that muc self-control with mone would like to start investing and to reti when I'm 40."

"I am not taking steps t reach my goals. I could spend less, but it's not attractive. I need a motivation, a deadline.

pension when I have r first job. I know it's important but it also fe so far away. I'll look in these things later. "

"I really appreciate my mum's effort to save money for my studies since I was a child"

from my earl having an or finances is n culture it is v start a fonce early and also the money t for a longer order to be a

I learned from a Young age work for money if I wanted buy things. That taught me the value and I kept an eye my finance.

Categories

	_									
Financial behavior	"People often have a lifestyle inflation. The can't afford to buy a c but they buy it anywa because they want to 1 in the same level as the neighbours."	Y "We need to ma ar sacrifices in the shor Y in order to benefit i	t-term "While people in the the income wi ove to higher, is not to be because the s and increase	ll get much t the case expenses	"The importa discipline, a learning that generate mo	nd about money can				
	"My step dad had a ve comfortable life becau of his business. His example gives me a motivation to do it well	se "There's a big grou people who isn financially literate	/t my mum's b. It save mone le lack studies since t easy	effort to y for my e I was a	I do not spend can afford. I do be in a situati become dep someone else." came from my fa me about the v and making me asking for mone feeling and beir	not want to ion where I endent on This probably amily teaching alue of items feel guilty for y. I do not like ig dependent	the money the for a longer pe order to be abl	childhood that erview of your cessary. In my ry common to for your child hat kids collect ay get as gifts	work for mo buy things the value an	om a Young age to oney if I wanted to . That taught me id I kept an eye on y finance.
	"Before starting automating your more you need to do a lot to work yourself. You nee to teach people to kno about financial literae themselves to look int variable costs and fix costs."	of w y o			on any	one.	po	nt.		
Millennials										
	Making life decisions that had a big financial impact. Like giving up everything to travel 3 months only to come back a pay to start over (housing, fridge, car, etc.). Should be more conservative.	Dont tend to have too many to worry now. Ex: I have no mortgage, kids, education bills etc to pay for	"I plan to start saving when I finish my studies and I have a job".	for first p	ition, start saving ayment for my artment	Not many, be have the resou I'm investing n to educate become "	ny time wisely	Managing my savings to la gradua	ast me till	I think I have v needs in life and don't spend tir assume I don't n budget
	"Paying the bills together with my wife helped me to be more responsible with my money. I wish I had this upbringing from my family before."									
	Spend unnecessary items because sometimes I buy stuffs with pulse	Paying twice for something that I could have avoided	Buying things I don't need, forgetting to cancel subscriptions	studying ir degree wa	st mistake was 1 the UK as the 5 not worth the 000 debt					
	"I spend most of my money on biking gadgets and trips, not that much money left for eating out."									
	Saving and staring to invest, but haven't really put the time into doing it properly.	Stick to my budget. Also, I want to start investing								

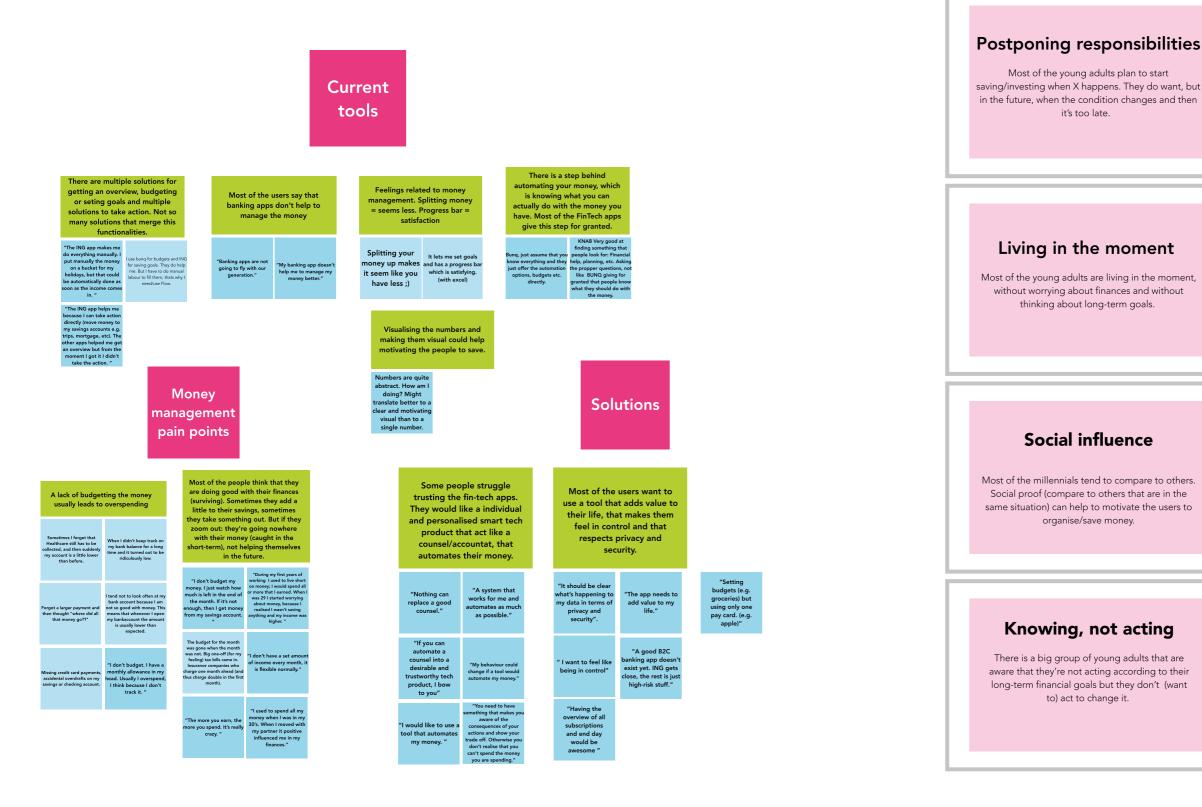
Current tools	It allows me to compare my expenses throught the month as well as my overall income. It's very helpful also to be able to track how much I spend on a regular basis (with membership or subscription fees) and those expenses that are punctual.		
	"Banking apps are not going to fly with our generation."	"My banking app doesn help me to manage my money better."	r
	"Flow is not solving anything that people can't solve themselves"	"UX Design is one of flow's strenghts. "	"Flow is not that necessary now that Bung released the sorting feature. "
	Bunq, just assume that you know everything and they just offer the automation options, budgets etc. directly.	USING PHYSICAL BUDGETTING CABDS Saving goals is helpful, but settig budgets and having individual cards for each budget helps to stick to your goal. Using different colors per card makes it easier to know with which card to py (green = groceries for example)	
	"Knab is really good at finding something that people look for. People look for financial help, planning, etc. Knab asks the propper questions, not giving for granted that people know what they should do with the money.		
	"The ING app makes me do everything manually. I put manually the money on a bucket for my holidays, but that could be automatically done as soon as the income comes in. "	"The ING app helps me because I can take action directly (move money to my savings accounts e.g trips, mortgage, etcl. Th other apps helped me ge an overview but from the moment I got it I didn't take the action. "	I can separate my money into subaccounts in ING bank, splitting the money makes it seem like you have less
	Within the Rabobank app you can have "Piggs Banks" for specific targets	RABOBANKI just told them how much did I want to save every month and it's "blocked" money.	Luse bung for budgets and ING for saving goals. They do help me. But I have to do manual labour to fill them, thats why I need/use Flow.
	Have an overview of how much Ispend and what areas Ispend more money on (abn amro)		
	It lets me set goals and has a progress bar which is satisfying. (with excel)	"My budgeting accounts in excel give me inflows and outflows of my finances briefly, and this way I can reach my goals."	My spreadsheet! Created it myself, use it all the time, love it. Also, the fact that I can seperate my money into sub accounts in my ING app is something I really make use of. I already put away money in them for things I am saving for, and splitting your money up makes it seem like you have less: 3
	"The overview of my expenses/balances helps me (FINTONIC)."		
	REVOLUT: It has very nice Analytics dashboards + Vault and investing features		

Solutions	"You need to have something that makes you aware of the consequences of your actions and show your trade off. Otherwise you don't realise that you can't spend the money you are spending."	"Nothing can replace a good counsel."		
	"If you can automate a counsel into a desirable and trustworthy tech product, I bow to you"	"Having the overview of all subscriptions and end day would be awesome "	"Setting budgets (e.g. groceries) but using only one pay card. (e.g. apple)"	"My behaviour could change if a tool would automate my money."
	"A good B2C banking app doesn't exist yet. ING gets close, the rest is just high-risk stuff."	"I would like to use a tool that automates my money. "	"Saving goals are nice but i mostly use multiple accounts and sorting transactions for budgetting. Apple pay is nice for the fact you can color code cards, 1 card per budget when paying"	"I don't want to sort the data in the spending categories myself."
	"It should be clear what's happening to my data in terms of privacy and security".	"The app needs to add value to my life."	"A system that works for me and automates as much as possible."	"Being in control"

MM pain points

Being caught in the short-term	"During my first years of working I used to live short on money; I would spend all or more that I earned. When I was 29 I started worrying about money, because I realised I wasn't saving anything and my income was higher. "	"I don't have a set amount of income every month, it is flexible normally."		
Living from paycheck to paycheck	The budget for the month was gone when the month was not. Big one-off (for my feeling) tax bills came in. Insurance companies who charge one month ahead (and thus charge double in the first month).	"I don't budget my money. I just watch how much is left in the end of the month. If it's not enough, then I get money from my savings account.	"The more you earn, the more you spend. It's really crazy. "	"I used to spend all my money when I was in my 30's. When I moved with my partner it positive influenced me in my finances."
Budgetting problem:	Sometimes. Not accurate enough. I Budget the house, the bills, the petrol I find more complicated to budget food as it depends on seasons, what we eat at the time and spare time to cook.	Too much work/lazy/scared for the realization	It takes a lot of time to do it manually. I know there are apps for that but I don't trust them since they should get the permission to access my bank account	"I don't budget. I have a monthly allowance in my head. Ustally I overspend, I think because I don't track it. "
Negative surprises	Sometimes I forget that Healthcare still has to be collected, and then suddenly my account is a little lower than before.	When I didn't keep track on my bank balance for a long time and it turned out to be ridiculously low.	Forgot a larger payment and then thought "where did all that money go??"	I tend not to look often at my bank account because I am not so good with money. This means that whenever I open my bankaccount the amount is usually lower than expected.
Bad financial planning	I spend much more money than I thought in one week, because I had guests over, had to buy books for uni1 spend double the amount in that week compared to usually.	Missing credit card payments, accidental overdrafts on my savings or checking account.	Did not make long term planning, so i did not have a buffer for a big expense because I spent more than i could have afforded during holidays instead	"Because of being an entrepreneur, right now I can't focus on long-term goals, just in short-term goals.

Insights



"I plan to start saving when I finish my studies and I have a job".
"I would like to start saving and starting to invest, but haven't really put the time into doing it properly."
"I will start saving for my pension when I have my first job. I know it's important but it also feels so far away. I'll look into these things later. "
"Because of being an entrepreneur, right now I can't focus on long-term goals, just in short-term goals.
"I used to make life decisions that had a big financial impact. Like giving up everything to travel 3 months only to come back a pay to start over (housing, fridge, car, etc). I should be more conservative."
"I tend to buy things I don't need, forgetting to cancel subscriptions, etc."
l think I have very simple needs in life and in general, I don't spend tirelessly. So, I assume I don't need a regular budgeting."
"Paying the bills together with my wife helped me to be more responsible with my money. I wish I had this upbringing from my family before."
"I am not taking steps to reach my goals. I could spend less, but it's not attractive. I need a motivation, a deadline."
"Thinking about things like social proof, how I am doing compared to my peers? How much money do I need for a 3-week vacation? Could help me a lot."
"Right now I am living from paycheck to paycheck."
"I don't save the same amount every month. I don't have that much self-control with money. I would like to start investing and to retire when I'm 40."
"During my first years of working I used to live short on money; I would spend all or more that I earned. When I was 29 I started worrying about money, because I realised I wasn't saving anything and my income was higher."

Financial behaviour

Current tools

Banking apps Most of the users believe that banking apps are going to fly with our generation because they don't help to manage their money.	"Banking apps are not going to fly with our generation." "My banking app doesn't help me to manage my money better."
ING - Lack of actions There are multiple solutions for getting an overview, budgeting or seting goals and multiple solutions to take action. Not so many solutions that merge this functionalities.	"The ING app makes me do everything manually. I put manually the money on a bucket for my holidays, but that could be automatically done as soon as the income comes in. " "I use bung for budgets and ING for saving goals. They do help me. But I have to do manual labour to fill them, thats why I need/use Flow." "The ING app helps me because I can take action directly (move money to my savings accounts e.g. trips, mortgage, etc). The other apps helped me get an overview but from the moment I got it I didn't take the action. "
Visualising the insights Visualising the numbers (of saving and spending) could help motivating young adults to save money and to reach their personal goals.	"Numbers are quite abstract. How am I doing? Might translate better to a clear and motivating visual than to a single number." "The use of progress bars to visualise the goals makes me feel satisfaction".
Basic financial literacy There is a step behind automating your money, which is knowing what you can actually do with the	"Bunq, just assumes that you know everything and they just offer the automation options, budgets etc. directly." "KNAB is very good at finding something that people look for:

adults are only thinking in the short-term, until they realise that they want a lifestyle inflation and they can't afford it - Oh shit moment.

Postponed gratification

Low financial health normally happens when young

Learning finances at a

young age

People that have a good example from someone that managed the money well in life tend to be more motivated to (normally their family) manage their money well. However, it can cause the opposite effect. There's also people that grow up in a very wealthy context, therefore they don't understand the value of money.

A step before automating

People need to learn about financial literacy before starting automating their money. They need to know what part of their costs are variable and fixed.

Poor Money Management

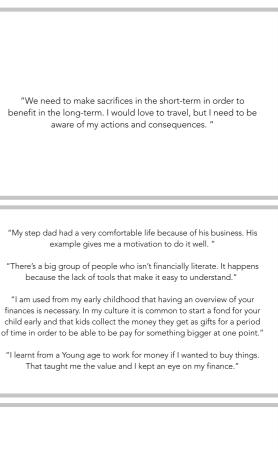
Most of the people think that they are doing good with their finances (surviving). Sometimes they add a little to their savings, sometimes they take something out. But if they zoom out: they're going nowhere with their money (caught in the short-term), not helping themselves in the future.

A lack of budgeting

A lack of budgetting the money usually leads to overspending

this step for granted.

not like BUNQ giving for granted that people know what they should do with the money."



"Before starting automating your money you need to do a lot of work yourself. To teach people about financial literacy themselves to look into variable costs and fix costs."

"The important is to have discipline, and about learning that money can generate money over."

Money management

"I don't budget my money. I just watch how much is left in the end of the month. If it's not enough, then I get money from my savings account.

"During my first years of working I used to live short on money; I would spend all or more that I earned. When I was 29 I started worrying about money, because I realised I wasn't saving anything and my income was higher. '

"I don't have a set amount of income every month, it is flexible normally."

"I used to spend all my money when I was in my 30's. When I moved with my partner it positive influenced me in my finances."

"The more you earn, the more you spend. It's really crazy. "

"I don't budget. I have a monthly allowance in my head. Usually I overspend, I think because I don't track it. "

"I tend not to look often at my bank account because I am not so good with money. This means that whenever I open my bankaccount the amount is usually lower than expected."

"When I didn't keep track on my bank balance for a long time and it turned out to be ridiculously low."

Solutions



smart tech product that act like a counsel/accountat, that automates their money.

> "It should be clear what's happening to my data in terms of privacy and security".

"A system that works for me and automates as much as

possible."

money."

 $\ensuremath{^\prime\prime}\xspace$ You need to have something that makes you aware of the

consequences of your actions and show your trade off. Otherwise you don't realise that you can't spend the money you are spending."

"The app needs to add value to my life."

" I want to feel like being in control"

"A good B2C banking app doesn't exist yet. ING gets close, the rest is just high-risk stuff."

"Having the overview of all subscriptions and end day would be awesome

A trustworthy service

Most of the users want to use a tool that adds

value to their life, that makes them feel in control

and that respects privacy and security.

Combining physical cards

The use of a physical card linked to the budgeting accounts makes it easier to respect those bugets.

"Setting budgets (e.g. groceries) but using only one pay card. (e.g. apple)."

"Saving goals are nice but i mostly use multiple accounts and sorting transactions for budgetting. Apple pay is nice for the fact you can color code cards, 1 card per budget when paying."

People that have a good example from comeone that managed the money well in life tend to be more motivated to (normally their family) manage their money well. However, it can cause the opposite Low financial health normally happens when young adults are only thinking in the short-term, until they realise that they want a lifestyle inflation and they can't iffect. There's also people that grow in a very wealthy context, therefor afford it - Oh shit moment in a very v they don My step dad had a v omfortable life becar of his business. His example gives me I really ap m's effort There is a big group of people that are aware that they're not acting according their long-terr

goals but they don't

change it

The use of a physical card

linked to the budgeting

accounts makes it easier to

respect those bugets.

If I can save something would do it for the ong-term (for example baying the university o my son), but for the

Figure [FR6]

Financial behavior

People need to learn about financial literacy before starting automating their money. They need to know what part of their costs are variable and fixed.

Millennials

Using social proof (compare to others in the same situation) can help to motivate the users to organise/save money.

> things like social proof, How i am doing compared to my peers? How much money do I need for a 3-week 1? Could h me

Most of the young adults are living in the moment, without vorrying about finances and thinking about long-term goals.

n life and in general, I spend tirelessly. So, I I don't need a regular subscriptions

/ now. Ex: ge, kids, e

Most of the young adults plan to start saving/investing when happens. They do want, but in the future, when the ndition changes and then it's too late.

Financial behaviour

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People that have a good example from someone that managed the money well in life tend to be more motivated to (normally their family) manage their money well. However, it can cause the opposite effect. There's also people that grow up in a very wealthy context, therefore they don't understand the value of money.

How to teach people financial literacy?

How to build trust within

fin-tech apps? How to

create a smart digital

accountant?

How can low financial healthy people learn from others to manage better their money?

financial literacy?	Millennials				
	Most of the young adults plan to start saving/investing when X happens. They do want, but in the future, when the condition changes and then it's too late.	Most of the young adults are living in the moment, without worrying about finances and thinking about long-term goals.	Using social proof (compare to others in the same situation) can help to motivate the users to organise/save money.	There is a big group of people that are aware that they're not acting according their long-term goals but they don't change it	
Money m	How to encourage young adults to start NOW to save money,	How to make young adults to focus on their future too, and not think	How to create behavioural change with the use of peer pressure	How to make people that are aware about their behaviour to	
A lack of budgetting the money usually lead overspending	and not when X happens?	that it's too late?	or comparison to others?	act according to the long term?	
How to help people to budget their	Current tools				
money?	There is a step behind automating your money, which is knowing what you can actually do with the money you have. Most of the FinTech apps	Feelings related to money management. Splitting money = seems less. Progress bar =	Most of the users say that banking apps don't help them to manage the money	There are multiple solutions for getting a money overview, budgeting or seting goals and multiple solutions to take action. Not so many solutions	
	give this step for granted. How to teach	satisfaction How can design	What service could	that merge these functionalities. How can a digital	
	'step behind' before automating	solution merge theseimprove the experiencecreate positivepeople to learn thefunctionalities?of the bank, and helpemotions for'step behind'(overview, budget,people to manage theiractions like savingbefore automating			
Some people struggle trusting the fin-tech apps. They would like a individual and personalised smart tech product that act like a counsel/accountat, that automates their money.	their money?	money?	money?	automation)	

How to make people feel in control with their money while using a fin-tech app? Low financial health normally happens when young adults are only thinking in the short-term, until they realise that they want a lifestyle inflation and they can't afford it -Oh shit moment.

How to make young adults avoid the oh-shit moment?

management pain points

Most of the people think that they are doing good with their finances (surviving). Sometimes they add a little to their savings, sometimes they take something out. But if they zoom out: they're going nowhere with their money (caught in the short-term), not helping themselves in the future.

How to make realise to people that they are going nowhere with their money?

Solutions

Most of the users want to use a tool that adds value to their life, that makes them feel in control and that respects privacy and security.

The use of a physical card linked to the budgeting accounts makes it easier to respect those bugets.

How to create a digital card that helps changing the behaviour of spending money?

Design opportunities

Insights	How to's	Design opportunities
Most of the entrepreneurs think that because of their low (temporary) income, they can't do that much right now with their finances.	How to encourage entrepre- neurs to start saving for their future goals, even though their income is not yet high?	To show people their financial situation reflected in people that are in the same situation.
Most of the people think that they are doing good with their finances. But if they zoom out: they're going nowhere with your money, not helping yourself in the future.	How to make people aware/re- alise that they aren't going any- where with their money and that the situation could be improved (and it'll be better for them in the near future).	To show people their fi- nancial roadmap and the possible future scenarios by taking action today.
Using social proof (compare to others in the same situation) can help to motivate the users to organise/save money.	How can a digital tool help peo- ple to understand better the numbers of the cashflow? How to social proof to help people to feel part of a group and act according to better examples?	To help people improve- with their finances by comparing their financial goals to their social circle
Some people struggle trusting the fin-tech apps. They would like a individual and person- alised tech product that act like a counsel/accountat.	How to create trust in a fin-tech app? How to bring the 'feeling' of having an accountant in a dig- ital tool?	To replace a good financial advisor with a smart, desira- ble and trustworthy financial service.
People need to learn about fi- nancial literacy before they start automating their money. They need to know what part of their costs are variable and fixed.	How to help people understand how their money Flows (first making it visible/clear, then breaking down for them) - and then they could start using it	To help people understand finances by the use of a fun interactive financial tool.

The use of gamification

Gamification in finances is getting more and more common every day. Many people use financial apps to set future financial goals and track their progress. There are many FinTech apps that use the gamificiation as a strategy to engage customers.

Market analysis

Monzo [2] is millennials favourite bank launched in 2015, that uses gamification as a strategy to transition customers into using Monzo as their main account.

Qapital [3] is a financial app that offers a variety of different tools to help people to manage their money better. It uses gamification to make doing it more fun. It's possible to create both shortterm goals and long-term investment goals, or even set up Joint Goals with



others. Furthermore, it is also possible to set "rules" that trigger saving.

Givling [4] uses gamification as a core of their product. Givling is an app that has the goal to help people reducing their student debt by the use of gamification. Each day, the user can go to the app to play trivia games.

Opportunities

Some people feel sceptical about gamification for financial services. However, gamificiation can help to bring surprising approaches to customers and experiences. As a design opportunity for this project, gamificiation could be part of the futures of the final design solution as in user experience interactions, but not as a core of the solution for the project.

APPENDIX F: Creative session

Flow

Graduation project CREATIVE SESSION: Design a digital tool for positive financial behaviour

Hike One x Flow x TU Delft

DATE / DURATION

When? Friday June 12th Duration: 4 h (13 pm - 17pm)

TOOLS

Zoom - Group online meeting Miro - Whiteboard Google slides - Presentation material * To prepare - Sketching material

/×× APPROACH

1. Introduce design goal and design vision

2. Introduce user personas to participants

3. Creative session

 Warm-up exercise (example: flower association)
 How to's: method based on problem generation. Participants will be asked to think any possible solution. The How to's will be prepared before the creative session.

 Ideation: Individual ideation. Delivering a concept per participant and final group discussion.

What will my role be?

- Introduction of the project
- Moderator
- Time keeper
- Prepare how to's

Alejandra Blasco, Master Design for Interaction, TU Delft Graduation Intern at Flow Money Automation



PARTICIPANTS

- 7 10 persons
 Flow Money Automation (4)
 Hike One (3) visual designers, interaction designers or product/service designers
- TU Delft Industrial Design Faculty (3)



GOAL

 Inspiration for design
 Refine design goal and interaction qualities during the process



OUTCOME

The desired outcome is to finish the session with at least 5 interesting concepts There is the possibility to organise a second ideation session for the final concept but will be discussed during the conclusion of the first ideation session.



CREATIVE SESSION PROPOSAL Hike One x Flow x TU Delft

Appendix How to's

Most vo	ed How to's ted how to's s that weren't relevant		How to make people aware that this is a problem about their spending habits and not about their paycheck amount?	How to tell people that they have the 'Oh shit moment' coming up?
How to make it usable for everyone?	How to help people to decide what they want and what they need?	How to motivate people through a sense of achievement?	How to use gamification for this?	How to make people reflect on their financial goals?
How to help people to find their best tailored solution for them?	Should it always be fun?	How to educate people on financial health?	How to make people feel at ease with their long-term goals?	How to help people that cannot save?
How do they feel about automatic budgets?	How do people feel about automatic budgets?	How to make it a part of your everyday habits?	How to show people the impact of their money saved?	How to show their route towards their financial goals?
How to feel confident about your decisions?	How to relief tensions between autonomy and guidance?	How to motivate people to keep on going?	How to make people financially literate, understand what is going on and not just follow the app?	How to provide a sense of scale on people's financial progress?
How do they manage their money right now?	How to show them the insights of their made actions?	How to Duolingo?	How to do it together with your partner?	How to make these healthy habits scalable? When the paycheck gets bigger for example.
How to get them out of the shit?	How to use Flow when the income is not regular?	How to decide on a realistic target to save each month?	How to co-create a view on financial health with the person?	How to gradually map out the current situation without overwhelming and preventing decision fatigue?
How do we know what 'OSM' are for people?	How to overcome the initial fear that people might feel regarding finances?	How to keep it fun to do? not to easy and not too hard!	How to make positively reinforce for the savings?	How to make people cope with the emotions connected to failing?
How to make a large goal, like buying a house, more reachable?	How to get friends and family to recommend Flow?	How to make the whole journey more fun not only just reaching the goal?	How to show people the value of saving?	How to get people trust a financial app?
How to show the value of the baby steps?	How to reach out people disappointed by other solutions?	How to motivate people to save through social interactions?	How to motivate people towards taking action?	How to present Flow as an option to help them with their finances?
How do they feel about this? anxiety, chill, etc.	How to create different experiences for different levels of mastery?	How to enable/stimulate the word of mouth communication?	How to inspire a goal setting from small to huge?	

Appendix How to's

This is Fieke, a 28 y.o. dutch freelance designer.	Fieke lives the moment ful loves travelling and enjoyi time with her friends	ng the		
How to make people aware that this habits and not about th		nding		
How to tell people that they have	the 'Oh shit moment' coming	up?		
One day, she considers buying a house, and she realises that her financial situation is worse than what she ever imagined. (Oh Shit Moment)	Fieke realises that the sit needs to be changed. S motivated, but she doesn how to start.	she is		
How do they manage their money right now?	How to show the value of t steps? How do they feel about this			
How to get them out of the shit?	How do they teel about this chill, etc. How to inspire a goal settin			
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How to make a large goal, like buying a house, more reachable?	towards taking action How to show people the of saving?			
Fieke likes using Flow because she can automate her money and it makes it easier to not overspend.	Using Flow for a while make understand her spendir behaviour and to have a bu reality.	ng		
because she can automate her money and it makes it	understand her spendir behaviour and to have a bu	ng		
	How to motivate people th sense of achievement How to educate people on health?	t? financial		
	How to make it a part of everyday habits? How to motivate people to going?			
	How to Duolingo?			
	How to decide on a realistic save each month? How to keep it fun to do? no	Ŭ		
	and not too hard! How to make the whole journ	-		
	fun not only just reaching th	e goal?		
This action is repeated sever saving more and mor		At		
How to do it together with your partner?				
How to co-create a view on financial health with the person?				
How to make positively reinforce for the savings?				
How to gradually map out the current situation without overwhelming and preventing decision fatigue?				

For her, money is there to be spent. She doesn't have control over her finances, like for example, a savings or investing account.

Often, she is stuck financially, and she lives from paycheck to paycheck.

She asks for advice to her family/friends, and she tries out multiple solutions but none of them works well for her.

How to get people trust a financial app? How to get friends and family to

recommend Flow? How to reach out people disappointed by other solutions? How to create different experiences for different levels of mastery?

How to motivate people to save through social interactions?

How to present Flow as an option to help them with their finances?

After using Flow for a while, Fieke has her monthly groceries budget under control.

How to use gamification for this?

How to make people feel at ease with their long-term goals?

How to show people the impact of their money saved?

How to make people financially literate, understand what is going on and not just follow the app?

How to make people cope with the emotions connected to failing?

downloads it because she likes that they offer a personal and tailored solution for her situation.

Finally Fieke finds Flow, and she

How to make it usable for everyone?

How to help people to find their best tailored solution for them? How do they feel about automatic budgets? How to feel confident about your decisions?

Fieke manages for first time in her life, to have some extra money by the end of the month.

How to make people reflect on their financial goals?

How to help people that cannot save?

How to show their route towards their financial goals?

How to provide a sense of scale on people's financial progress?

After a couple of years, Fieke becomes financially healthy. She now has control over her finances, has some money saved and she started investing monthly.

ow to make these healthy habits scalable? When the paycheck gets bigger for example.



This is Fieke, a 28 y.o.

dutch freelance designer.

that this is a problem about

their spending habits and not

about their paycheck amount?

How to tell people that they

have the 'Oh shit moment'

coming up?

How to make people aware



Fieke lives the moment fully. She

loves travelling and enjoying the time with her friends.

Set up Salary splitter

When money comes in + add filter on choose account Send 50% + to choose account +

Send 50% . to choose account .

How to help people to decide

what they want and what they

Should it always be fun?

need? 🔘 🔘 🔘

+ add action



For her, money is there to be spent. She

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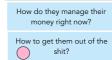
SUPERMARKET ---

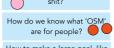
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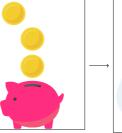
One day, she considers buying a house, and she realises that her financial situation is worse than what she ever imagined. (Oh Shit Moment)

Ξē





How to make a large goal, like buying a house, more reachable?



Fieke manages for first time in her life, to have some extra money by the end of the month.





How to show their route towards to show their route towards their financial goals?

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After using Flow for a while, Fieke has her monthly groceries budget under control. How to use gamification for this?

How to make people feel at ease with their long-term goals?

How to make it a part of your How to show people the

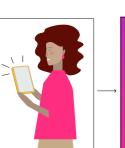
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How to use Flow when the

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Fieke likes using Flow because she can automate her money and it makes it easier to not overspend.

derstand her spending behaviou and to have a budget reality. How to motivate people through a sense of achievement?

How to educate people on

financial health? \bigcirc

How do people feel about automatic budgets? everyday habits?

How to Duolingo?

How to keep it fun to do? not to

more fun not only just reaching the goal?

Fieke realises that the situation needs to be changed. She is notivated, but she doesn't know family/friends, and she tries out multiple solutions but none of them works well for her. how to start.

Ø

Financial h

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E. This action is repeated several times, until she starts saving

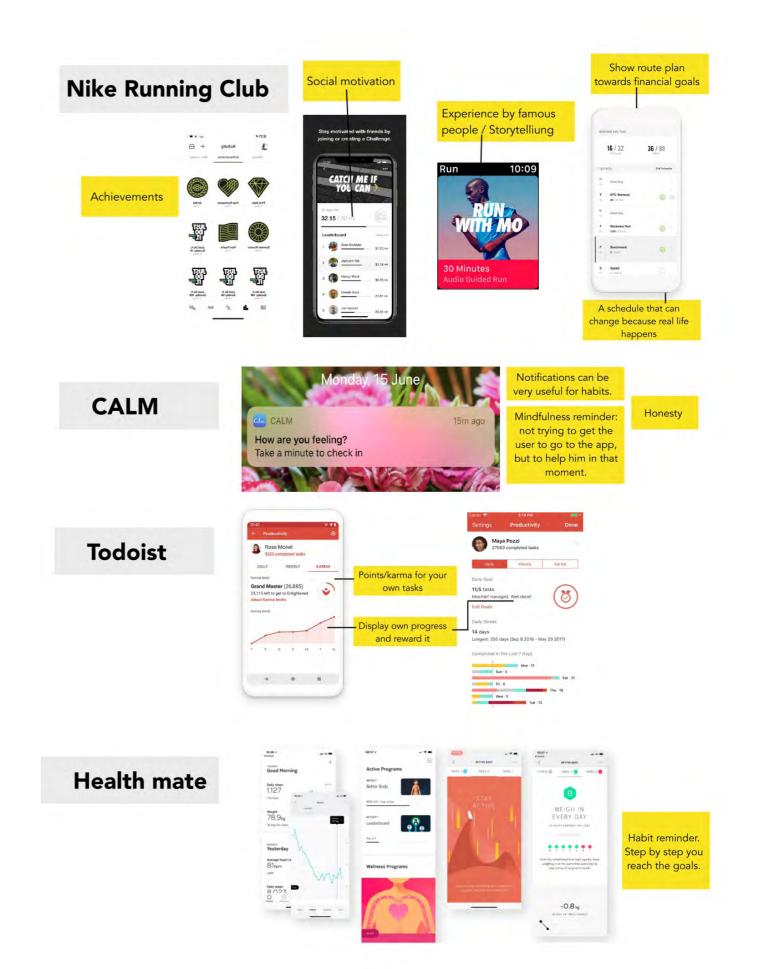
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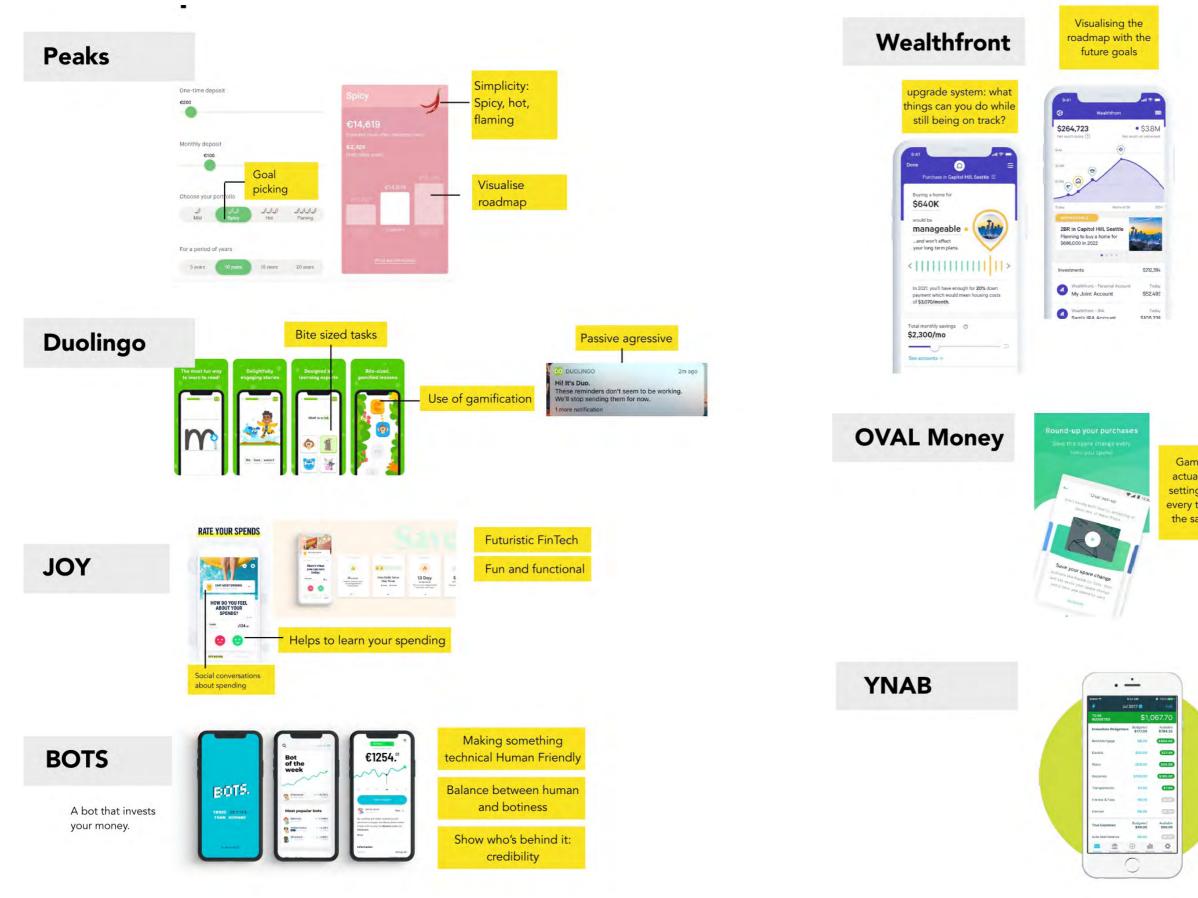
Inspiration board



Staying motivated	Visualising goals
How to motivate people through a sense of achievement?	How to make people reflect on their financial goals?
How to motivate people to keep on going?	How to help people that cannot save?
How to educate people on financial health?	How to show their route plan to reach financial goals?
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How to use gamification for this?	How to show their route towards their financial goals?
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How to feel confident about your decisions?	

How to

How t







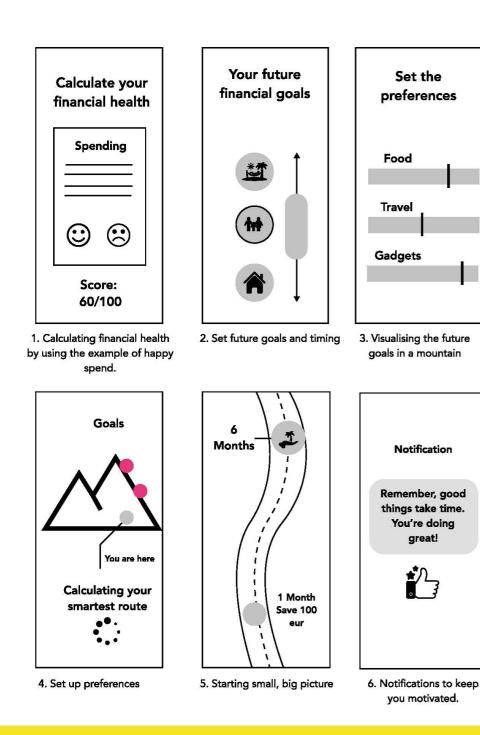
Gamification that actually helps! e.g. setting aside money every time is spent in the same category.

Similar to Flow 1 cent challenge

Forces the user to make choices and reflect about their financial goals

Concept

Concept





Goalie helps you setting financial goals

2. DATA INPUT Set information and connect bank accounts to analyse the spending



based on the data and

preferences

What do you think (at 2 @ €150 ⊕ (at 3 @ €100 ⊕ Consequence FINALIZE

possible consequences in the future

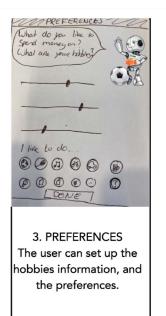
TAKE AWAYS

> personalised robot/buddy/advisor, that helps you setting the goals and connecting your present to the future > Gamification: The buddy has a 'name' and a 'fun shape'. Maybe a goal keeper is a bit out of tone, but what about a 'Mum' or a 'advisor'.

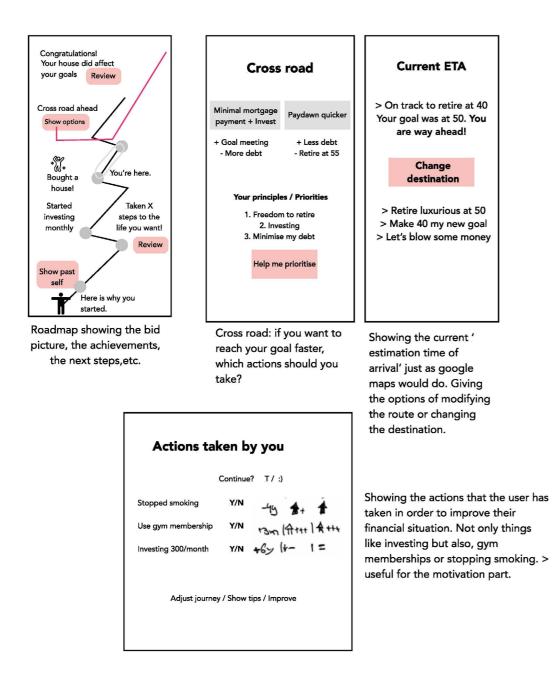
TAKE AWAYS

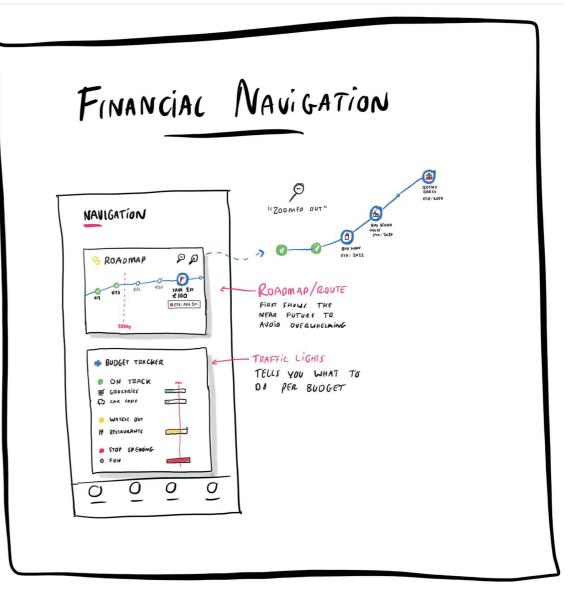
- > Test to calculate financial health could be interesting / or to calculate the level of satisfaction towards their financial life
- > Visualising goals in a mountain
- > Showing financial goals route with small milestones until reaching the bigger goals
- > Notifications to keep up the motivation of the people











- * 2 cards
- * option to zoom in and out

TAKE AWAYS

- > Showing the roadmap with options to see the starting point, the WHY you started with this roadmap, and the achievements you already took until today.
- > Option of 'cross road' and to give the 'buddy' the option to help you proritize your goals.
- > In general I really like the roadmap with the achievements and the big picture of the financial situation. It feels like a game, where you can see the achievements.
- > Change destination option: giving the user the control over their life. Buddy as supportive and giving the user the ability and keeping the motivation up.

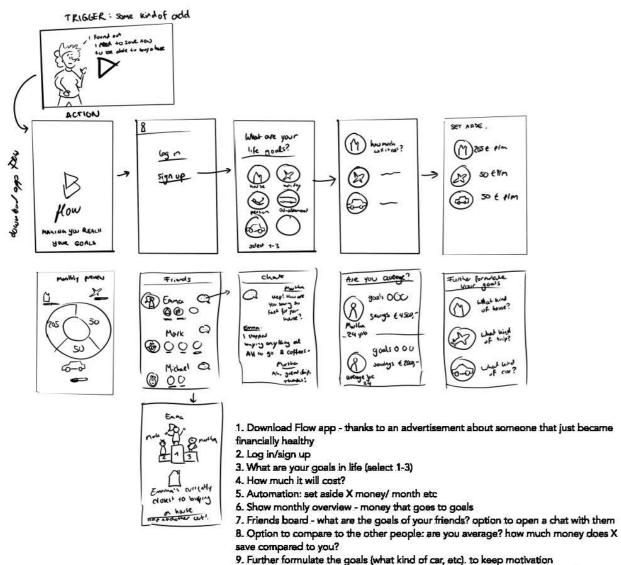
TAKE AWAYS

- > The option of zooming out visualising the goal and also the ETA.
- > Using traffic lights for budget tracker

* roadmap cards: goal and a route towards it * budget tracker cards: use for this month, kind fo traffic lights

* not zooming too far out because it can be overwhelming?

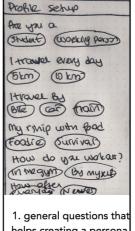
> STEP BY STEP ROADMAP: first showing the near future to not overwhelm



- 10. Leadership board See who is doing best in the leadership board (eg. Nike)
- * eg. Emma is number 1 saver on buying a house how?
- * to see how are you compared to an average person
- * what are your goals, what are your savings etc
- * have something like a pop-up to define your goals
- (what you actually have to do when you want to buy a house).

TAKE AWAYS

> Social sharing goals was one of the research insights already, and it's interesting to keep people motivated through comparing to their friends / family. However it should be important to not make it an obligation because a lot of people don't like to share their money insights.





helps creating a persona for example the proximity to work

> When the goals are achieved, consecutiively a level up is suggested!



TAKE AWAYS

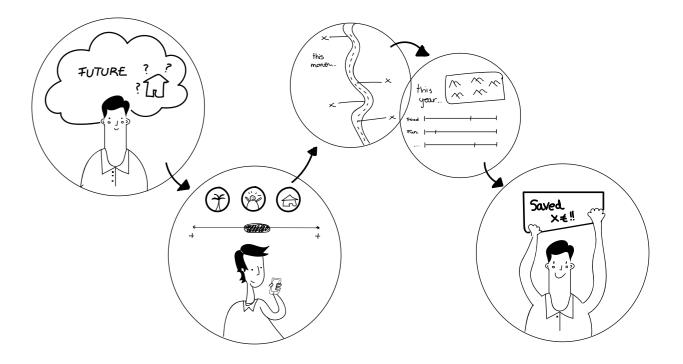
> Gamification: levels up when goals are achieved. Makes it fun to work towards the goals. > Creating personas is interesting to explore, it could make it simpler to create the personalised tailored solution

2. A persona is created based on the questions

my hudget	
Food	locentos
Fitnes)	200 eu
culture	50 eu
cionning	20 eu
Travel	100 eu
Home	60 eu
ceisure	50 er
3. The user sets a budget with the goals in mind.	

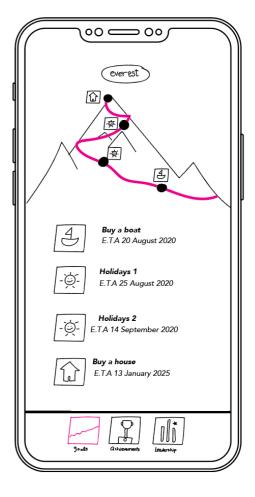
BONUS: GAME \sim LEVEL 1 MASTER FIRST BUDGET GROCERIES ON TRACK LEVEL 2 D Bitt Cloths





APPENDIX G: Conceptualization





CONCEPT 2: FINBUDDY

Using this concept would help me to improve my financial situation



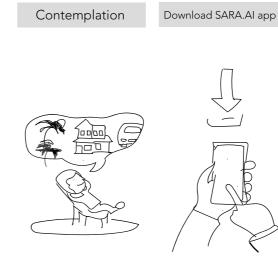
FUJI is a concept with the vision of reaching financial goals comparing it to climbing a mountain. It's about setting preferences of financial goals and visualizing them in a 'mountain' view.

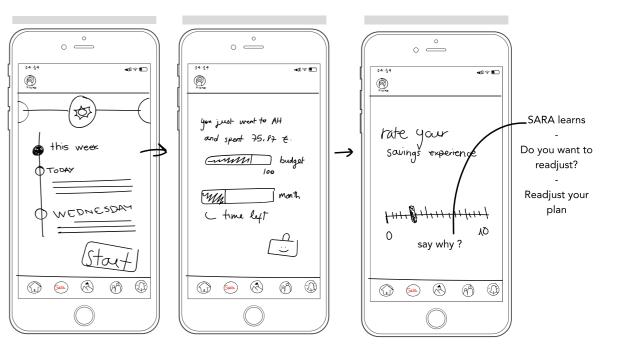
FIN-BUDDY is a robot advisor that gives personal advice and coaching by bot interaction. The user can ask questions to FIN-BUDDY in order to get financial support, answer questions or simply ask questions.

FINBUDDY and FUJI were combined in a new concept, were the features of Artificial Intelligence and Visualising financial goals are implemented.

FIRST CONCEPT

A third concept is designed based on the best qualities of the previous two concepts FUJI and BOTBUDDY, The concept SARA.AI brings together the idea of visualizing the financial goals and the artificial smart financial advisor that supports the user. SARA is designed to bring together the key qualities defined in the ideation: motivation, trust, balance of control and freedom, future guidance, personalization, social interaction and providing a sense of scale.

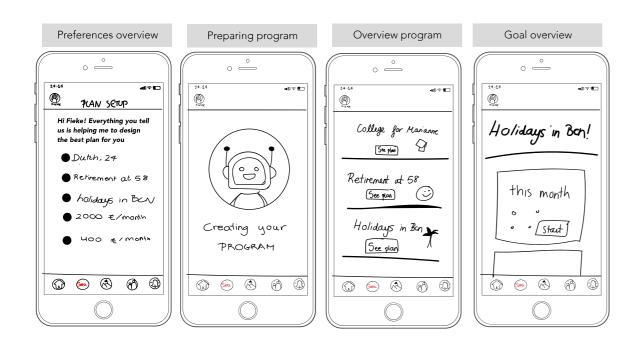


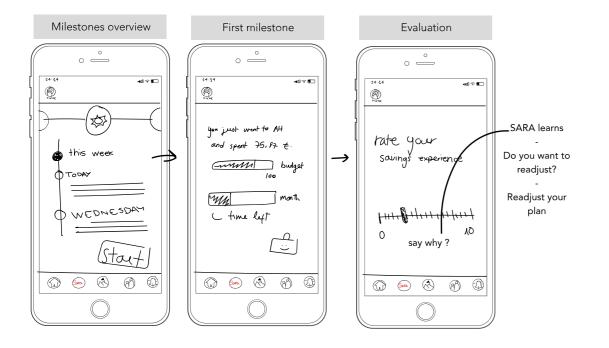


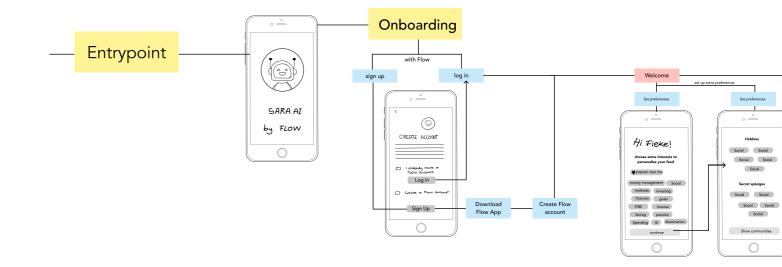




SARA (Saving Automation Road-map Artificial Intelligence) is a user-centered financial Robot-Advisor that helps users to set and reach their financial goals by the creating a tailored budget and savings plan that adapts to their circumstances in life. After SARA analyses the users' current financial habits, she'll tell you how to save more, how to choose or adjust the future financial goals in order to keep on track.





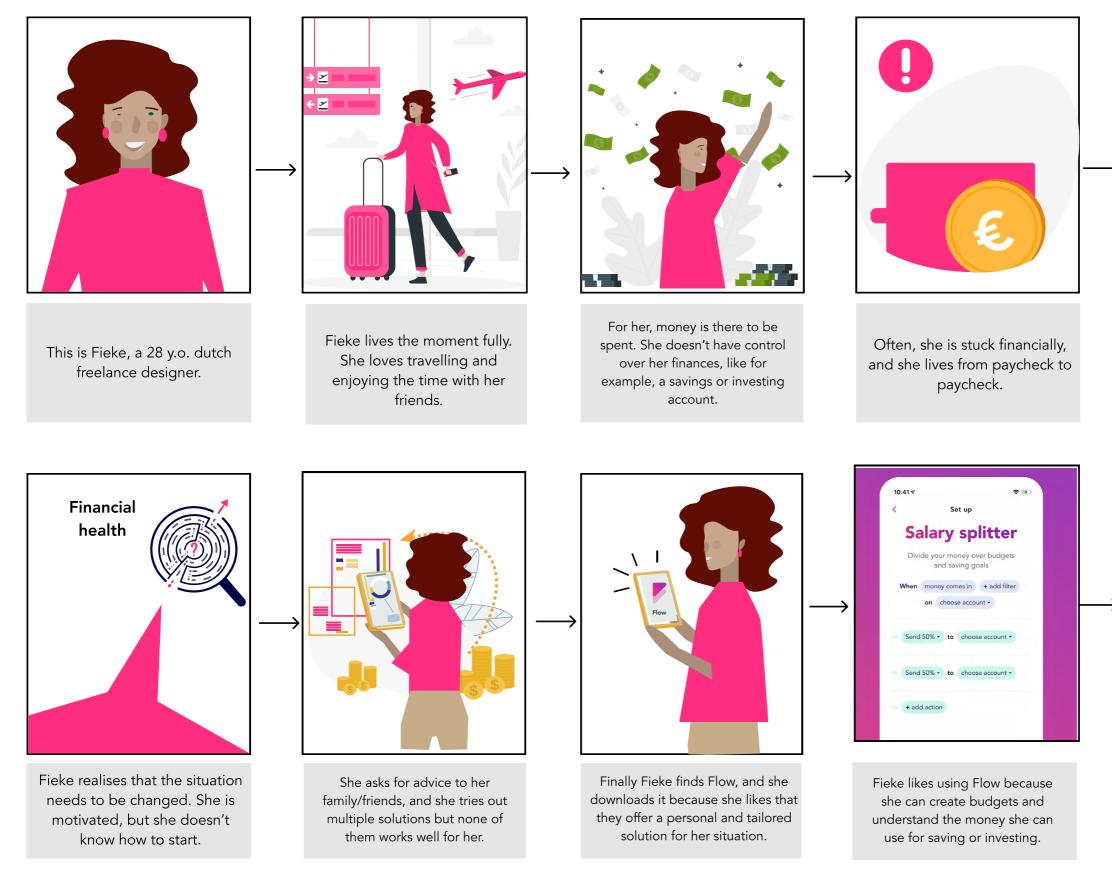


INFORMATION ARCHITECTURE

The information architecture of the low-fidelity concept shows different parts that could be developed to solve the problem. The information architecture includes the on-boarding, feed, social, selecting a plan, setting user preferences, setting goals, creating a plan, visualization goals and evaluating the experience. For the low-fidelity concept, the whole flow was tested in order to understand which were the most important interactions from the whole. The next pages explain the detail of each one of the parts of the Flow.

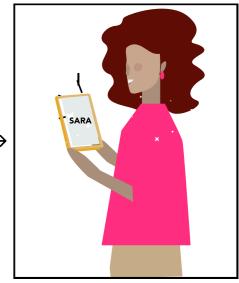


STORYBOARD

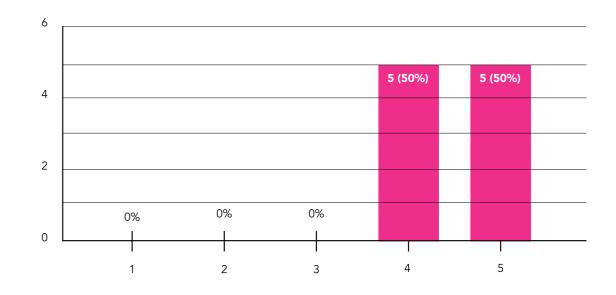




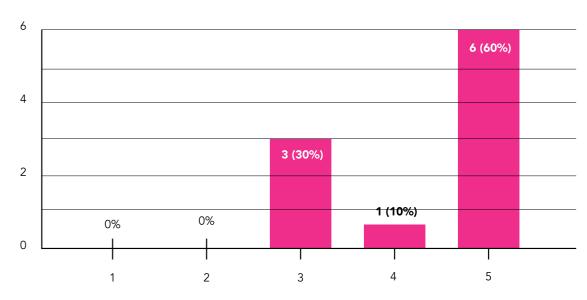
One day, she considers buying a house, and she realises that her financial situation is worse than what she ever imagined. (Oh Shit Moment)



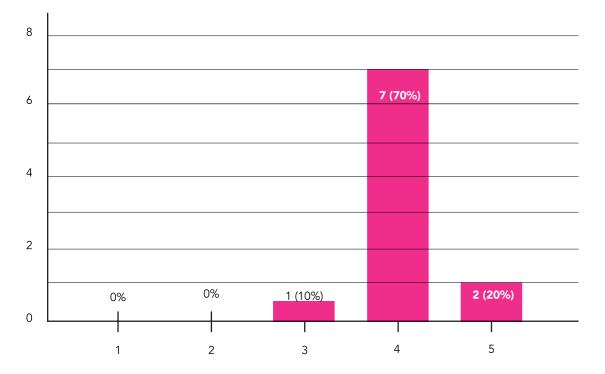
Flow suggests Fieke to use SARA.AI, an app they created to focus on financial goals and to gain financial health.



This concept would keep me motivated to save money

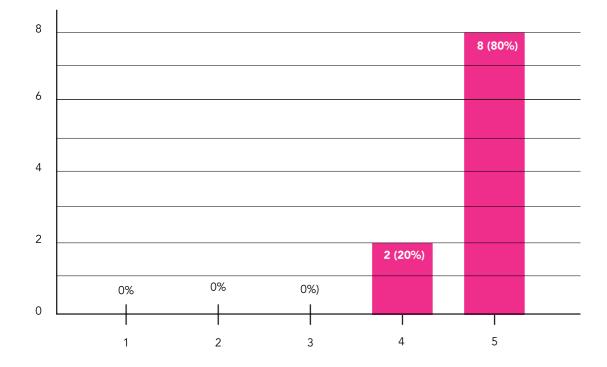


APPENDIX H: Evaluation

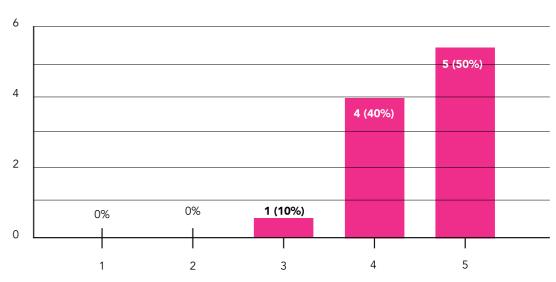


By using this concept I would feel that I am in control of my finances

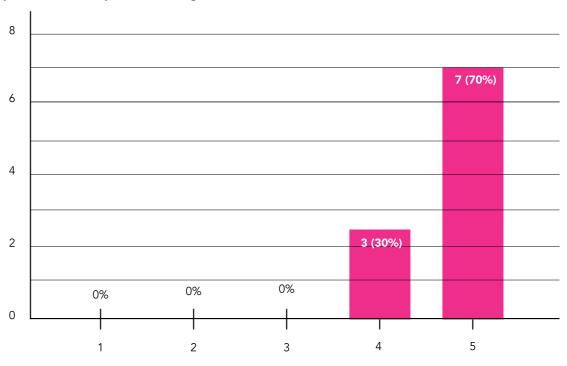
Using this concept would make me think about my financial goals



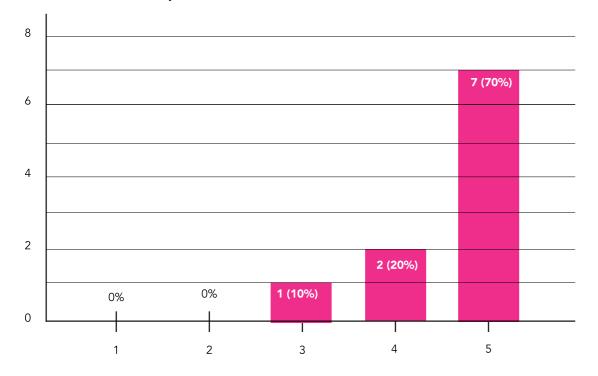
Using this concept would make me think about my financial goals



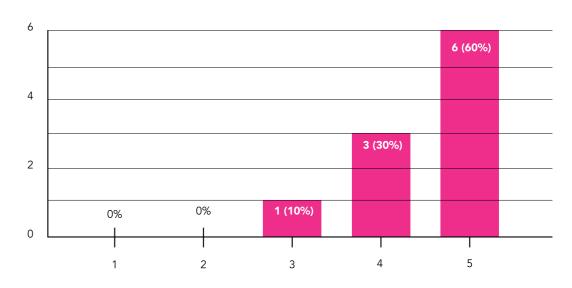
I find this concept interesting



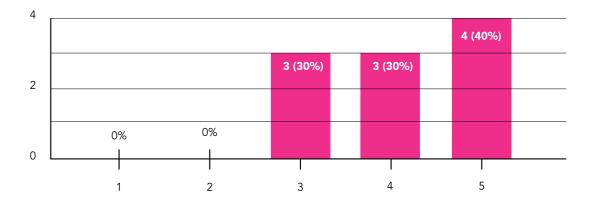
I would use this concept



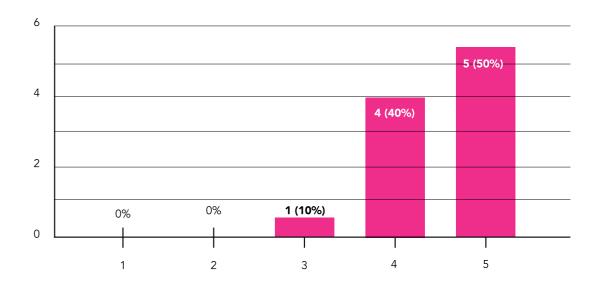
This concept feels like having a financial plan tailored for me



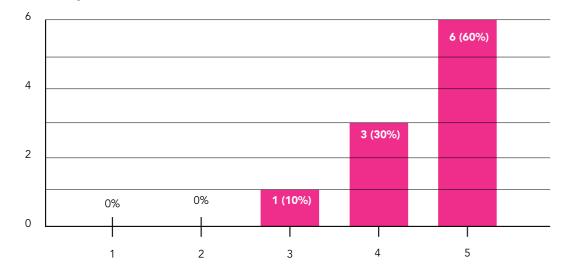
This concept is innovative



This concept provides me guidance to reach my goals



This concept is coherent and understandable



PROS

"This app keeps the user motivated and incentives user to set financial goals. "

"Personalised, well though out, absolutely love the social aspect think it is the game changer of this idea."

"It considers multiple factors when providing an advise for future financial goals."

"I like the social part of the platform. By sharing you become more committed with your own goals. Also money and savings is a topic that we rarely discuss among friends but should be something that we talk about more often as it affects everyone's life. Furthermore, the social part would keep you engaged with the app on a daily/ weekly basis."

"I like the easiness of the flow to start it up. It already knows your data and gives you recommended goals, so it is very easy to follow the initial process and set up a goal. You're in already without realizing."

"The SARA.AI is friendly and informative, roadmap is helpful, and the challenges with friends could keep me motivated."

"It teaches me to look at new things, it has a social element makes money less of a taboo to talk about."

"The SARA.AI is friendly and informative, roadmap is helpful, and the challenges with friends could keep me motivated."

"The social part makes it fun to use. "

"SARA looks cute and helpful. I would love a personalised plan and goals. The main thing that I like is that it would keep me engaged with my finances throughout the month rather than look every once in a while."

"It considers multiple factors when providing an advise for future financial goals."

"That it tries to understand my goals and behaviour before suggesting me what to do. it feels like it's for me and not for everyone."

"What i dislike is the fact that it is integrated inside another app."

"Maybe starter/int/adv not quite clear yet, what kind of stepping stones will those levels offer."

"I'm not sure about which information would be relevant for me. Of course is my money and I want to get to know everything but too much might make me obsessed with saving and having all percentages and bars full and green."

"I was afraid the AI is taking too much out of my hands."

WHICH OF THE CONCEPT EXPERIENCES ARE THE MOST IMPORTANT TO IMPROVE THE FINANCIAL SITUATION?

"The milestones, they keep the user motivated to keep going."

"Budget track that seamlessly integrates and recommends/rewards you."

"The saving challenges, which would be "The jar pots. Knowing exact amounts dinice to do them with friends too. reading vided on categories (fun, groceries). Because suggested articles about saving money and putting a number there makes it so easy to different mindsets I can adopt. it's about stick to it." learning different behaviours and turning them into new habits."

"Roadmap and rewards."

"To propose an accurate financial plan."

"too many functionalities and parts can make it feel overwhelming. I want to first focus on the more important things and not have distractions."

"I would like to have more personalisation input."

"Nothing in particular. I would like to see the roadmap / progress visualised more clear.."

"I would evolve the names of the plans. For examples, as a beginner I wouldn't like to have the "starter pack" but something that makes me feel I am already doing something more than starting..."

"Questionnaire, and reflecting on if you are starter or advanced because that really changes what is important. e.g. don't go investing if you have no emergency fund."

"Set monthly expense plans per section (food, fun...)."

"The roadmap visualisation."

Social motivation

Users like the social feature for two reasons: it helps with keeping up the motivation and it normalises a taboo topic.

However, the social features should be about challenges, connections and stories but not about amount of euros, salary, etc. It can be a delicate topic. The social part is very innovative and highly desired by the users.

"The social part makes it fun to use.

"Personalised, well though out, absolutely love the social aspect think it is the game changer of this idea."

"I like the social part of the platform. By sharing you become more committed with your own goals. Also money and savings is a topic that we rarely discuss among friends but should be something that we talk about more often as it affects everyone's life. Furthermore, the social part would keep you engaged with the app on a daily/ weekly basis."

"The SARA AI is friendly and informative, roadmap is helpful, and the challenges withfriends could keep me motivated."

"It teaches me to look at new things, it has asocial element makes money less of a taboo to talk about."

Roadmap to future goals

90% of the users answered to the question "which of the concept parts are more important to improve your financial situation?": the roadmap and its features. This is one of the core experiences of the concept and should be improved the way that it's visualised or how the information presented in order to make it more clear and understandable for the users.

"SARA.AI is friendly and informative, roadmap is helpful, and the challenges with friends could keep me motivated."

"It considers multiple factors when providing an advise for future financial goals."

"I would like to see the roadmap / progress visualised more clear."

"Too many functionalities and parts can make it feel overwhelming. I want to first focus on the more important things and not have distractions."

"The milestones, they keep the user motivated to keep going."

Plan levels

The plans aren't clear enough the way they are right now. Variations should be done in a conceptual level: what is the goal of using them? Can people reflect about their situation with target them in a plan?

150

"I would evolve the names of the plans. For example, as a beginner I wouldn't like to have the "starter pack" but something that makes me feel I am already doing something more than starting...*

"Maybe starter/int/adv not quite clear yet, what kind of stepping stones will those levels offer."

"Questionnaire, and reflecting on if you are starter or advanced because that really changes what is important. e.g. don't go investing if you have no emergency fund."

Tailored

Users like to give their needs and ambitions before receiving suggestions and to receive a personalised tailored solution instead of a general solution that could be adapted for everyone. They like to be in control and to feel unique.

1111

realizing."

everyone.

Personalisation

Users like to give their needs and ambitions before receiving suggestions and to receive a personalised tailored solution instead of a general solution that could be adapted for everyone. They like to be in control and to feel unique.

realizing."

"That it tries to understand my goals and behaviour before suggesting me what to do. it feels like it's for me and not for everyone."

"I would like to have more personalisation input."





