



*Neighbour
in need!*

*Share! Help! Gift! Build your
community!*

Mobile Computing
SS 2020

Neighbour in Need

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Agenda

1. Vision
2. Personas
3. Functional Requirements
4. Non-Functional Requirements
5. Mock-Ups

- For communality, for the neighbourhood
- To help/share/gift and build a community
- Users can:
 - ⇒ Register
 - ⇒ Create and search for advertisements
 - ⇒ Gift something
 - ⇒ Borrow/lend sth.
 - ⇒ Offer help (e.g. going to the supermarket)

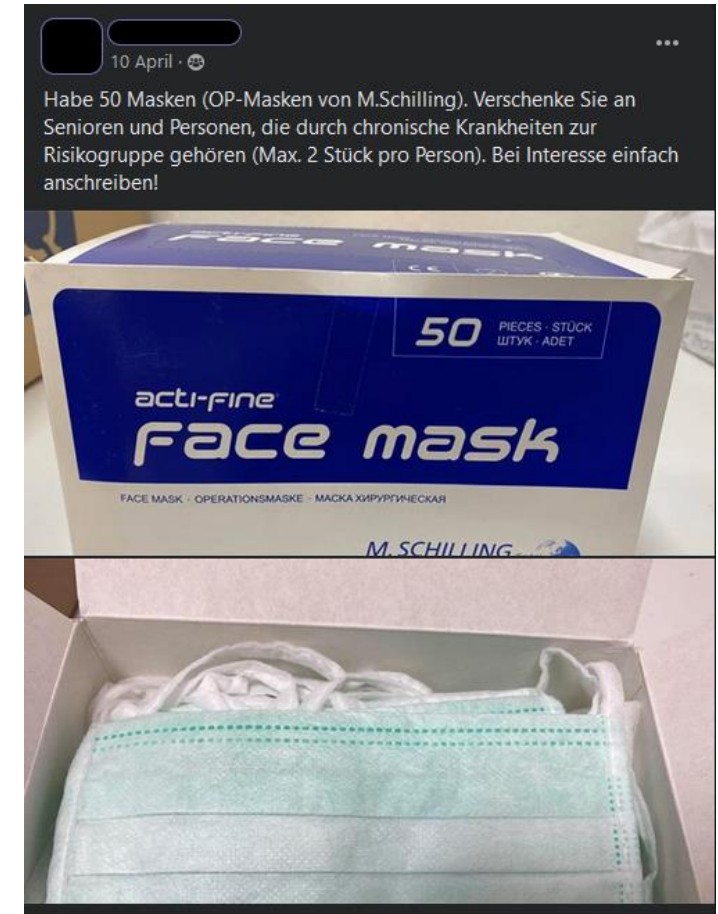
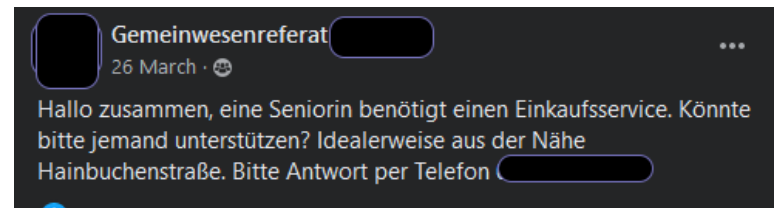
Vision

Personas

Functional Requirements

Non-Functional Requirements

Mock-Ups



- Our user group is very heterogeneous concerning:
 - Age
 - Gender
 - Job
- ⇒ Everybody (except children) could use the application





Name: **Amy Sue**

Gender: Female

Age: 24

Hobbies: Cooking, Tai Chi, playing Cello

Studies: Biology

Amy Sue lives in Tübingen since 5 years. She is a friendly and outgoing girl. In her free time she plays with her dog and the neighbour's children. The children love her dog. She drinks a glass of multivitamin or pomegranate juice daily.

Key characteristics:

- Passionate about her studies
- Spends a lot of time with her dog
- Enjoys watching movies in the cinema
- Very reliable and helping person
- Loves Italian food

Goals:

- After she has finished university, she wants to work in a zoo
- Likes to help others, whenever she can
- Wants to go on a road trip

Use Case Scenarios:

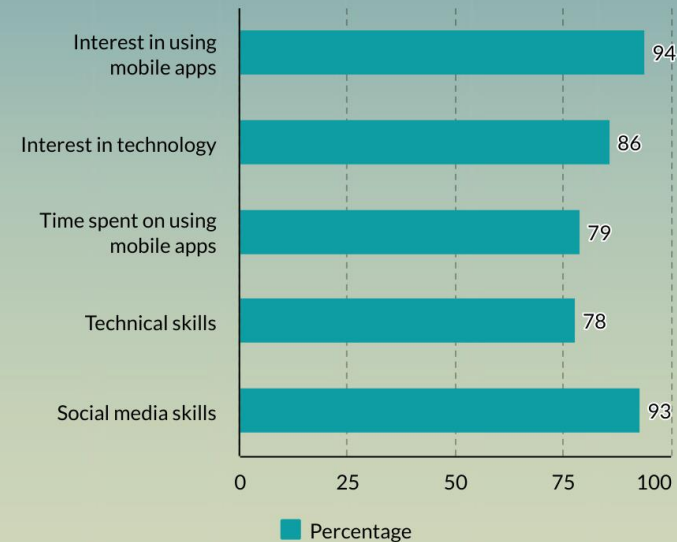
Searching for help:

Amy Sue doesn't own a car, but loves drinking juice. She struggles carrying her drinks home. She would like to have someone to drive her to the supermarket or lend her a car.

Offering help:

In semester break she has a lot of free time and would like to offer her help to others in need.

User behaviours





Name: **Petra**

Gender: Female

Age: 39

Hobbies: Cooking,
Writing, Reading

Petra works as a free journalist for a health magazine. She can research and work from home. She is married and has two children, the older one (7 years old) is adopted. Her husband works as a craftman. Most of the time he is not at home. On the weekend they spend time together.

Key characteristics:

- Do-It-Yourself lifestyle (crafty mom)
- She has a deep well of creativity to keep her kids occupied on a rainy day
- Positive attitude

Goals:

- She wants to make her stuff from scratch, produce her own food
- Do sports daily
- Spend time with her family and kids

Use Case Scenarios:

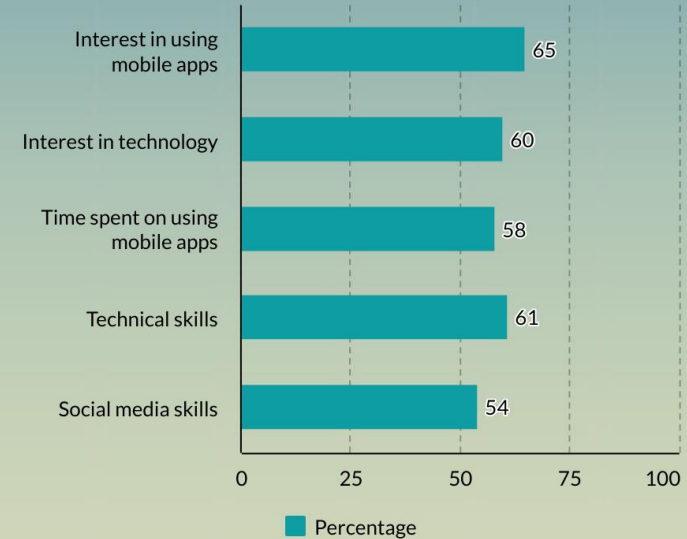
Searching for a gift:

She likes to handcraft with her children and therefore she often needs old toys and other old stuff.

Lend something:

Owns a dehydrator and could lend this to others, e.g. for drying spices. A dehydrator is quite expensive and so there will be interest in borrowing one.

User Behaviours





Name: **Thomas**

Gender: Male

Age: 82

Hobbies: Reading,
gardening,
watching TV

Thomas worked his whole life as a teacher for chemistry and mathematics. He retired 16 years ago and had a great time with his wife. Unfortunately she died a few month ago. It is not the same for him since she has gone. He has a son, who lives one hour away. Ususally they see each other zwice a month. In his free time he likes to play Boule with some friends.

Key characteristics:

- Spends a lot of time in his garden
- Loves his grandchildren
- Sometimes feels alone, since his wife died

Goals:

- Would like to run in a short marathon
- See his grandchildren succeed in life
- He wants to win a gardening contest

Use Case Scenarios:

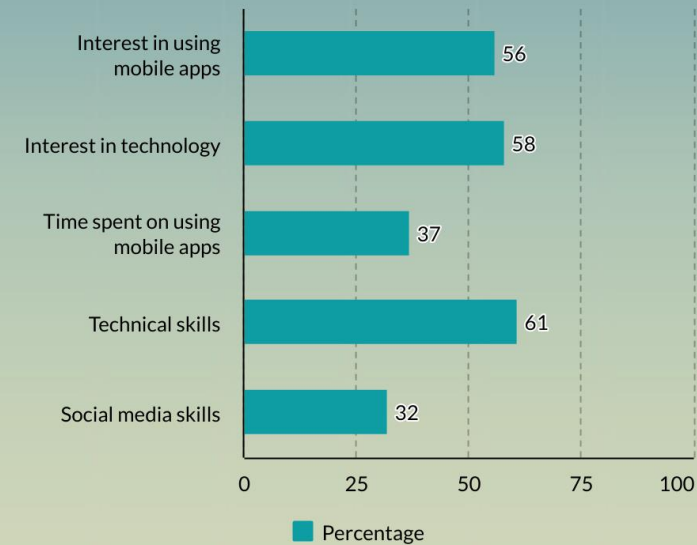
Borrow something:

Twice a year he needs some expensive gardening equipment. Therefore it would be great, if he could borrow these instead of buying them.

Gift something:

He wants to gift the leftover vegetables and herbs from his garden.

User Behaviours



Vision

Personas

**Functional
Requirements**

Non-Functional
Requirements

Mock-Ups

Functional Requirement	Level of importance
Create an account	5
Login	5
Create an advertisement	5
Search for an advertisement	5
Pick one advertisement from the list of results	4
Request personal information	4
Account management/settings	3
Edit personal information	3
Advertisement management „Offer“	3
Advertisement management „Borrow“	3
Rate other users	2
Sort result list	1

1 = not that important
 2 = nice to have
 3 = quite important
 4 = important
 5 = main or basic functionality

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graph LR; A[Vision] --> B[Personas]; B --> C[Functional Requirements]; C --> D[Non-Functional Requirements]; D --> E[Mock-Ups];
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Vision

Personas

Functional
Requirements

**Non-Functional
Requirements**

Mock-Ups

Non-functional Requirement	Description
Performance	Not longer than 3 seconds to load a screen, reduce network usage and computing to save battery-life
Portability	Should run on different Android systems
Screen Adaption	App should scale according the target's screen size
Useability	Self-explanatory symbols, interaction easy to adapt to, used colours are limited to an amount of four
Security	Encrypt data and only ask for information, which is necessarily needed, constraint the input fields, user must pass the correct data type and the correct format within the correct range to pass the login/register screen
Reliability	System should reliable to perform the function the user asked for, feedback to the user performing actions, e.g. if you request contact exchange from another user
Accessibility	Appropriate button size, so that everybody can easily use them avoid red and green together
Availability	Application should be downloadable in the Google Play Store, where users can easily access and install it

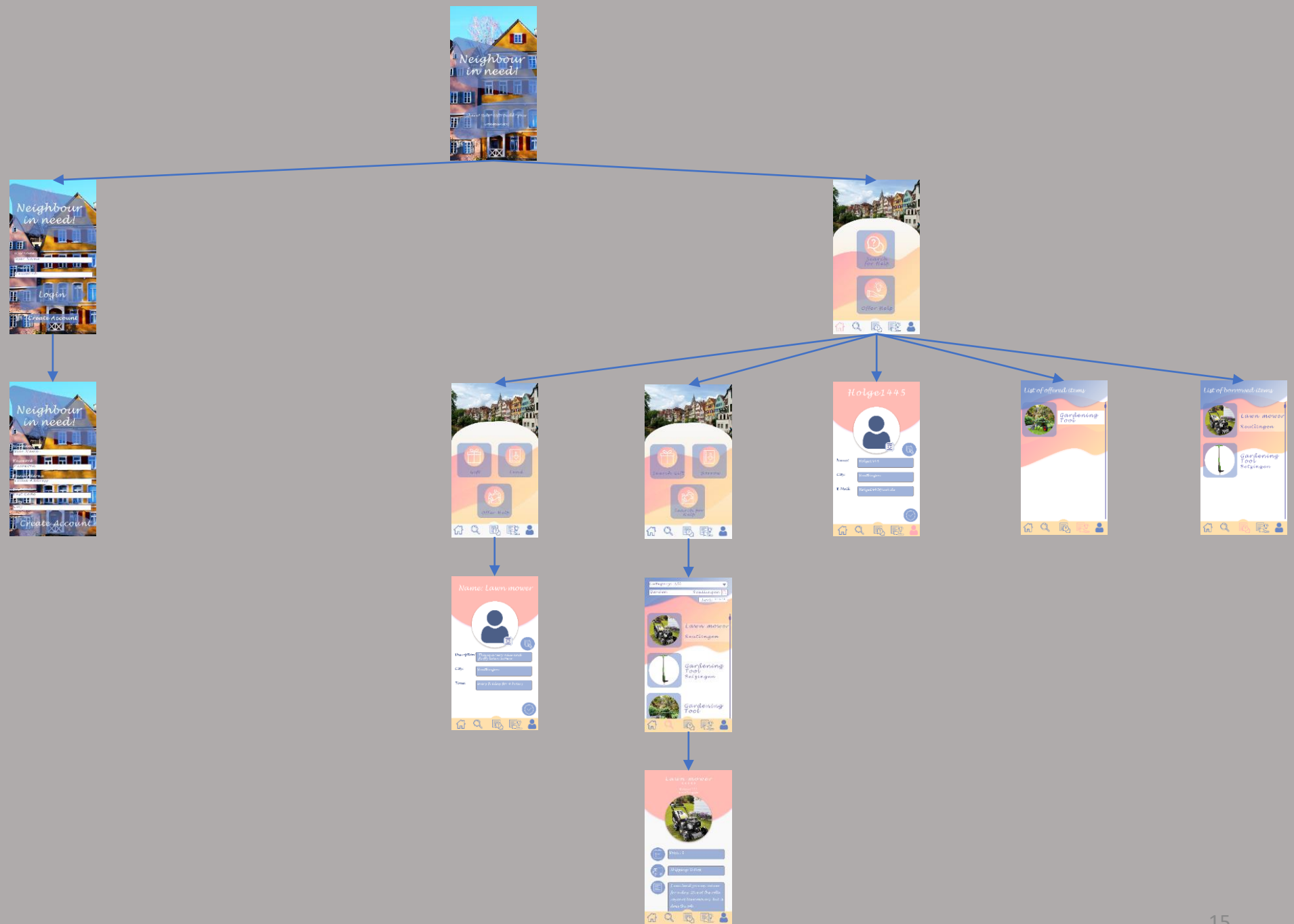
Vision

Personas

Functional
Requirements

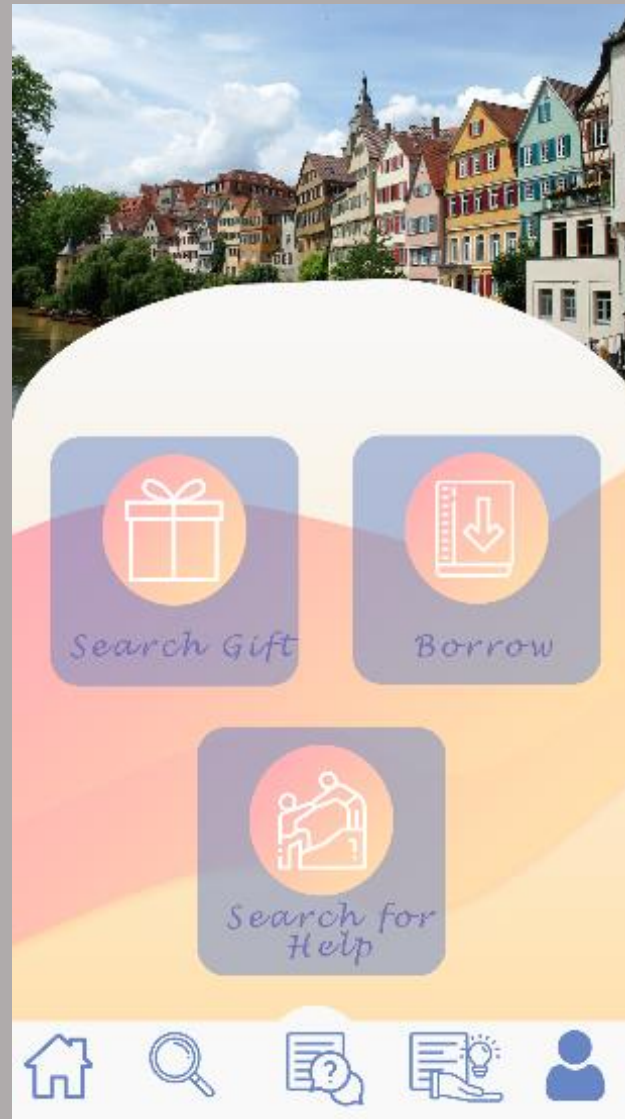
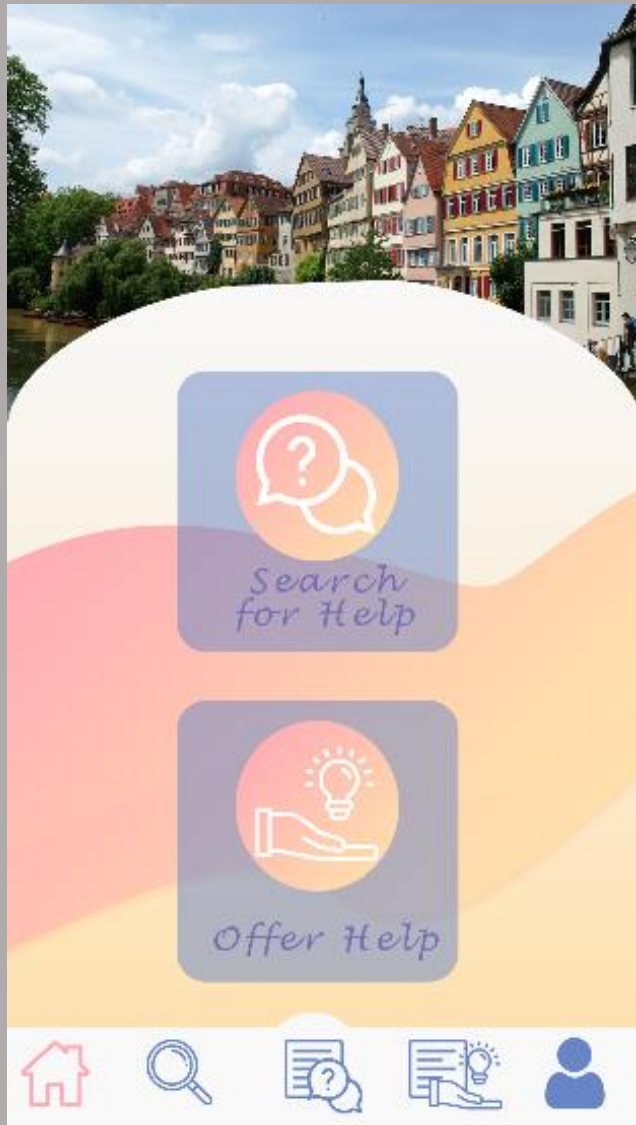
Non-Functional
Requirements

Mock-Ups



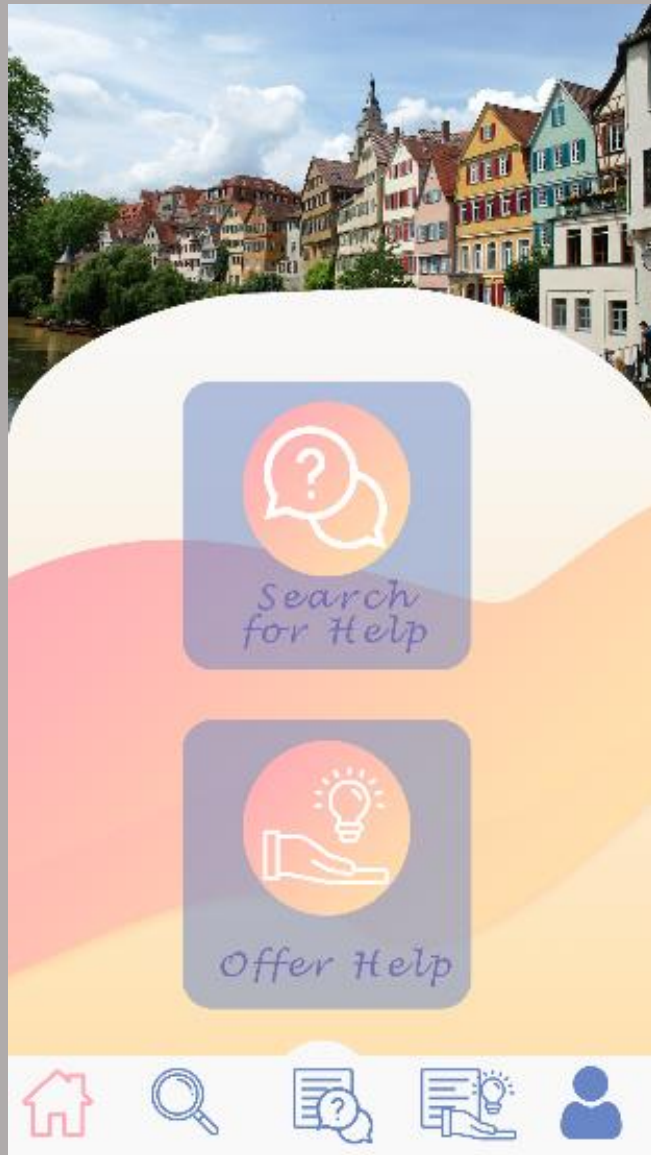












Holge1445



Name:

City:

E-Mail:



List of borrowed items



Lawn mower
Reutlingen



Gardening Tool
Betzingen



List of offered items



Gardening Tool



Thank you for your attention!