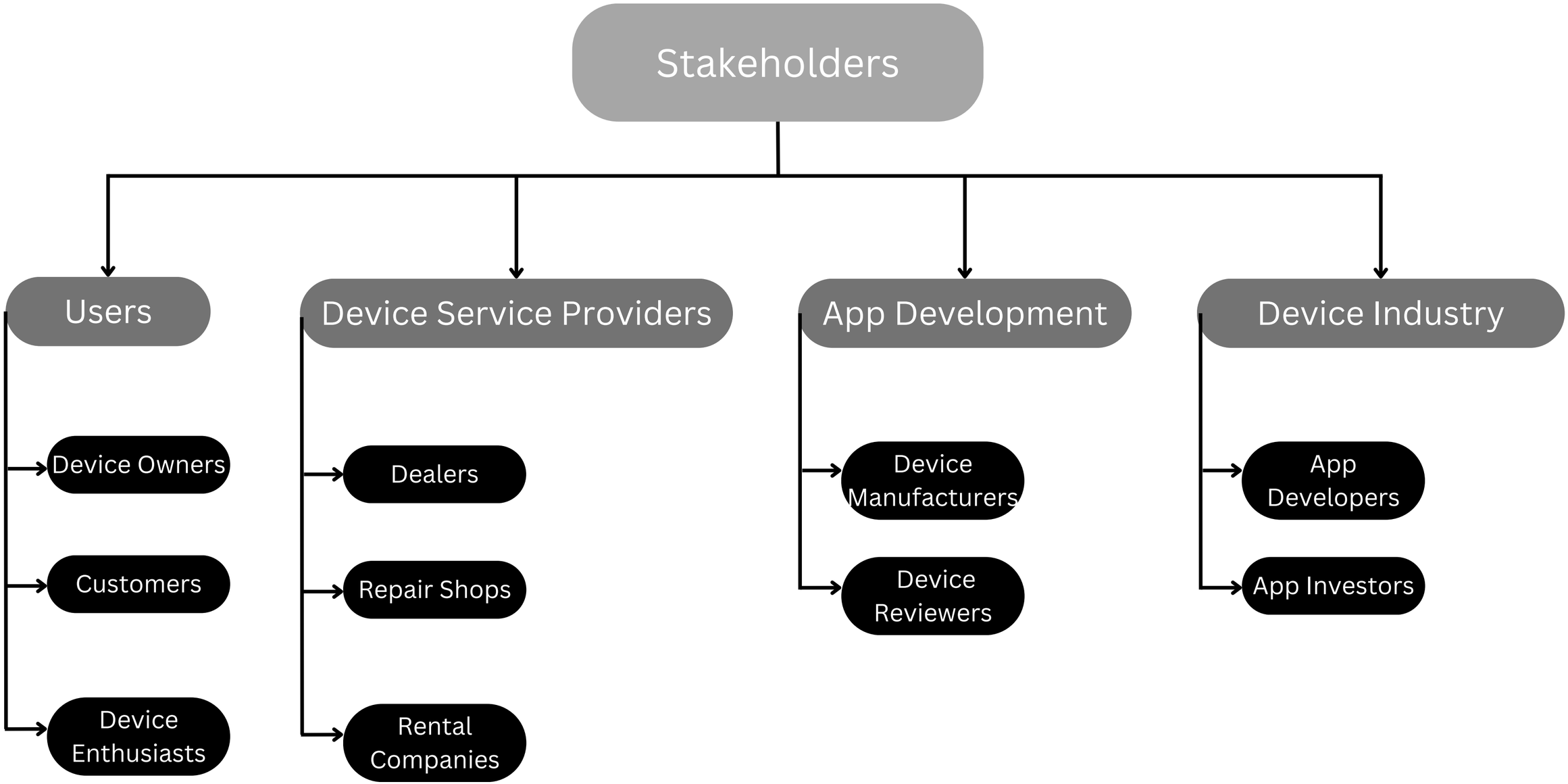
Software Product Introduction :

- Introducing our mobile app "**eletoo**" that offers a comprehensive solution for anyone who wants to buy, sell, repair, rent, trade, compare and stay up to date with device news. By providing a user-friendly interface and a range of features tailored to the needs of device owners, our app aims to simplify the device management process.

- Our app stakeholders are device owners, dealers, repair shops, rental companies and anyone else interested in accessing the latest devices and their features are part of our app stakeholders. Our app offers device owners a convenient platform to manage their devices, regardless of whether they want to buy, sell or repair them. Our app serves as a marketplace for sellers and device owners to get in touch with potential customers and expand their reach with the help of our application, workshops can advertise their offer and attract new customers. Finally, our app offers everyone interested in the latest gadgets a comprehensive shop to compare devices and keep up to date with the latest market trends.

- A mobile app with these features is essential in today's world. With the growing number of devices on the market, it can be difficult for device owners to keep up with the latest features and manage their devices effectively. Our app provides a convenient shop where users can buy, sell, trade, lease, repair and compare devices to solve these problems. The app is a key tool in the device industry as it simplifies the device management process for everyone involved.


Stakeholders
Users
Device Service Providers
App Development
Device Industry
Device Owners
Customers
Device Enthusiasts
Dealers
Repair Shops
Rental Companies
Device Manufacturers
Device Reviewers
App Developers
App Investors

Project Team

Mouayad Haji Omar

Contact details

FIRST NAME	Mouayad
LAST NAME	Haji Omar
ADDRESS	Lehmkaulweg 75 66119 Saarbrücken, Germany
E-MAIL	Mouayad-1991@hotmail.com
PHONE	0049(0)15754961812

Education and qualifications

SINCE 2020	**Studies of Applied Computer Science (B.Sc.)** Hochschule für Technik und Wirtschaft (University of Applied Sciences), Saarbrücken, Germany

Skills

IT skills
Programming Languages: Java, C/C++, C# and Blueprint Visual Scripting in Unreal Engine.
Basics of JavaScript, HTML, CSS and MySQL.

Languages
Arabic (native language),
English (B2),
German (C1)

Interests and activities

- Modding video games (e.g. using the Creation Engine Kit of Bethesda Softworks Game Studio).
- Game development using 3D computer graphics software and game engines.

Muthanna Haji Omar

PERSONAL DETAILS

FIRST NAME : Muthanna

LAST NAME : Haji Omar

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Rubensstr.46
66119 Saarbrücken, Germany

EDUCATION AND QUALIFICATIONS

SECONDARY SCHOOL
Amar Ben Yasser High School
2008 - 2012

BACHELOR OF TECHNOLOGY

BIOMEDICAL TECHNOLOGY
University of Applied Sciences in Saarbrücken
SINCE 2020

FOCUS

Physiks, Mathematics, English

INTERESTS AND ACTIVITIES

Radiography, Python, MATLAB

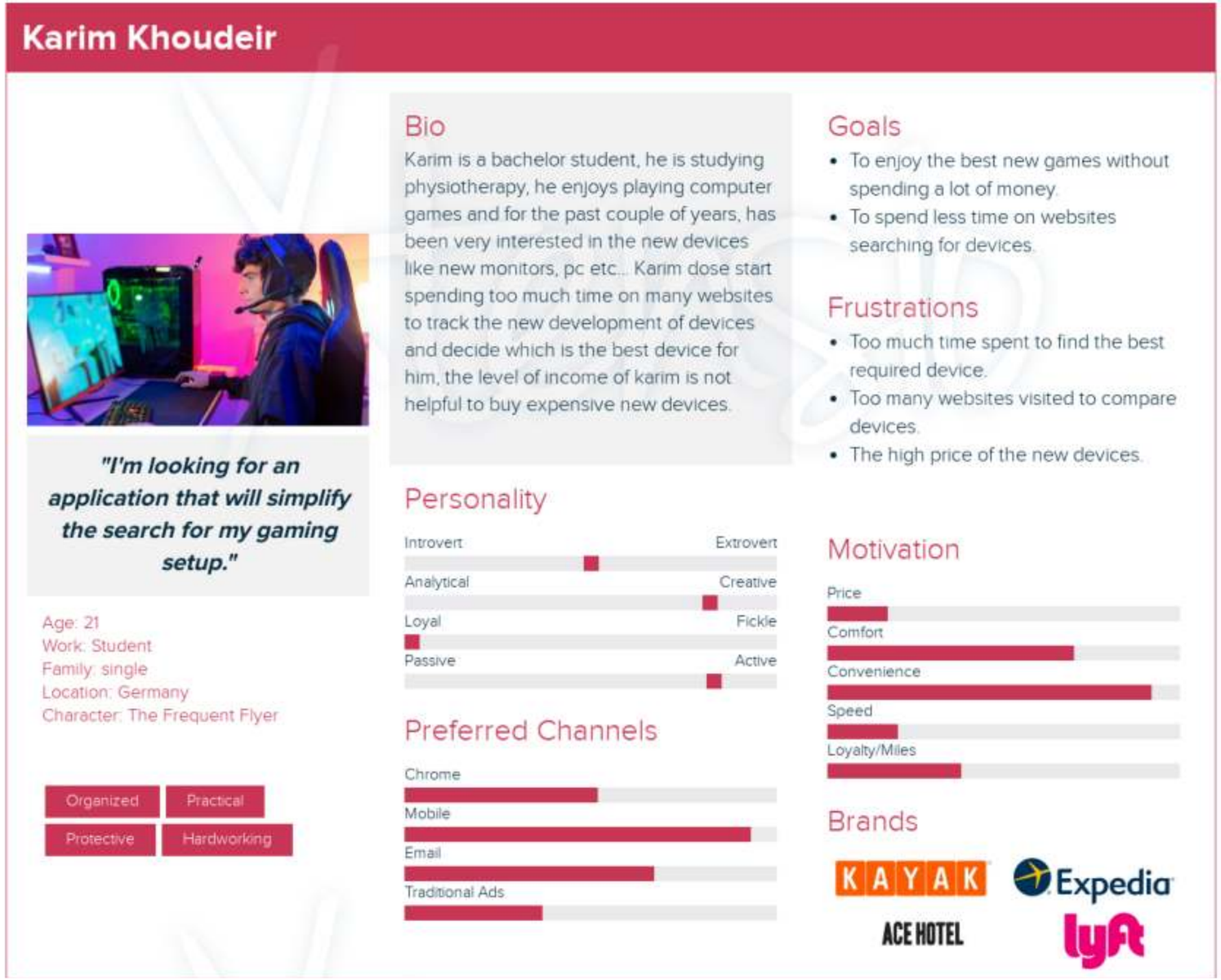
SKILLS

Artist
Sculptor
Microsoft Office (Word, Excel)

persona

Persona requirements extraction is a process used in software development to identify the characteristics and behaviors of users who interact with the software. Furthermore, it helps developmers to build products that meet their users' needs and expectations.

For this purpose, we created two fictional characters depending on the USER type to help us better understand with our users' perspectives.



persona

Persona requirements extraction is a process used in software development to identify the characteristics and behaviors of users who interact with the software. Furthermore, it helps developmers to build products that meet their users' needs and expectations.

For this purpose, we created two fictional characters depending on the USER type to help us better understand with our users' perspectives.

"I'm searching for the simple way to increase my business."

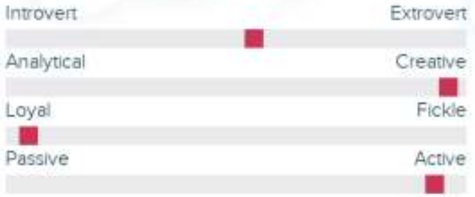
Age: 32
Work: device store owner
Family: Married, 2 Child
Location: Germany
Character: Hard worker

Organized | Hardworking

Bio

luis has his own store to repair devices and also buy devices from people or rent them devices, recently he noticed that the level of his work start to decrease, he offer so many services with good prices, but only the people in his area deal with him.

Personality



Preferred Channels

Goals

- To increase the level of his income.
- To attract more people to his services.

Frustrations

- The lower level of income..
- The hard process of increasing the business

Motivation

interview questions

list of demographic information we want to collect:

- Age range
  - Age range can help us understand Age-related differences and the preferences of our users.
- Gender identity
  - Knowing our users' gender identity can help us build software that is suitable for them.
- Income level or budget
  - Understanding our users' budgets can help us create affordable and accessible software and products for them.
- Geographic location or time zone
  - Knowing our users' location or time zone can help us develop software that fits their local context.
- Language
  - The language of our users can help us to identify translation needs.
- Technical expertise
  - This information can help us design software that matches the technical skill level of our users and make our software product more user-friendly.
- Personal or professional goals
  - Knowing the goals of our users can help us to identify any possible features or improvements that can help them achieve their goals.

interview questions

Introduction:

- What do you think about an App that allow you to buy, sell, repair and compare devices instead of searching online ?

Worm-up:

- What are the advantages and disadvantages of buying devices online ?

Main body:

- Which App would you use to buy or sell technical devices?
- Why this App attract you?
- Which problems did you face using this app?
- Which functionalities do you find really hard to understand and why (user-friendly) ?
- If you have the opportunity using an App to repair, exchange or rent devices, which futures are the most needed for you?
- Why these futures ?

interviewer

List of participants for the interview

Name : Houssein Fadel
Age : 24
Gender : male
Education level : Bachelor economics
Work status : student
Country: Germany

Name : Omar Nouh
Age : 21
Gender : male
Education level : Bachelor civil engineer
Work status : student
Country: Germany

Name : Ali Omar
Age : 21
Gender : male
Education level : mechanical engineering
Work status : device store owner
Country: Germany

Name : Rama Kassar
Age : 21
Gender : female
Education level : Bachelor informatics
Work status : student
Country: Germany

Name : Bilal Ali
Age : 23
Gender : male
Education level : Bachelor informatics
Work status : student
Country: Germany

interviewer

key findings from Interviews:

Most interviewers use Websites to buy, sell or trade devices.

Most interviewers face problems to find websites with the devices exchange functionality.

The software product should be user-friendly and easy to use without many complexities.

Interviewers dislike the complexity of the current websites they have visited.

Interviewers expect better experiences with the new mobile software product.

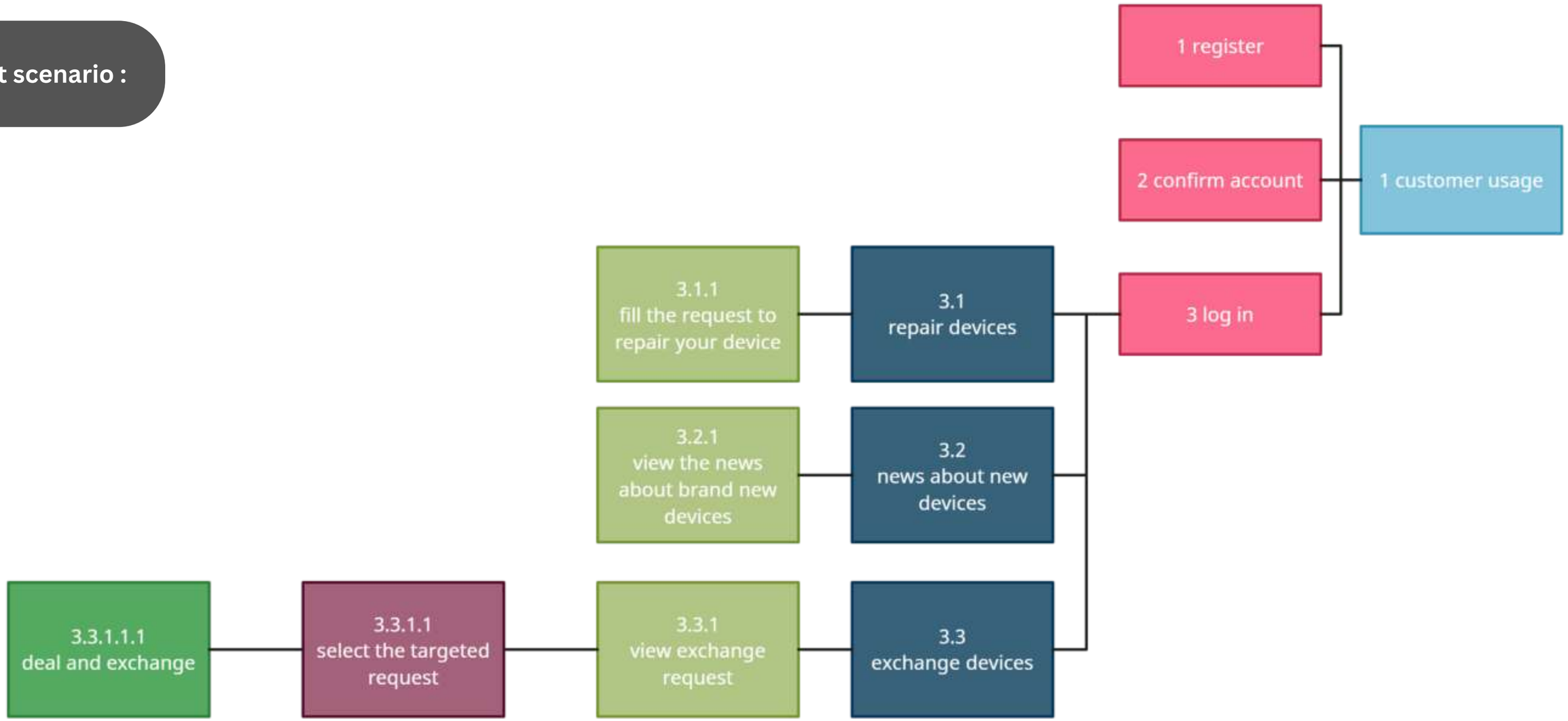
Requirements Extraction scenarios

First scenario :

Karim Khoudeir is a dedicated physiotherapy student studying in Germany who enjoys gaming in his free time. Unfortunately, he recently encountered a problem with his computer when his monitor broke down, preventing him from playing his favorite games. With limited funds, Karim was unable to purchase a brand new monitor and struggled to find a solution online. However, he came across an app called Eletoo that provides a unique repair functionality. Instead of buying a new monitor, Karim was able to easily use the app to send his broken monitor to a repair shop, saving him a considerable amount of money. The app's repair feature enabled Karim to conveniently send his monitor for repairs and get it back in working condition no time. Now, Karim can continue his gaming hobby due to Eletoo's convenient features. As a result of his positive experience with the Eletoo app, Karim has since become interested in its other functionalities. Therefore, he discovered the app's "News" feature, where he saw news about a gaming mouse that he liked, Karim couldnt afford this gaming mouse so he descovered another functionality called "Exchange",
which allows users to exchange devices with one another. As a gamer, Karim was interested in using the gaming mouse he saw on news , but didn't want to spend alot of money on buying a brand new one. With the exchange feature, he was able to find another user who was willing to exchange the gaming mouse he saw on news for his.Overall, Karim is very happy with the Eletoo app and its various features. it has allowed him to save money by repairing his monitor and exchanging his gaming mouse, providing him with a convenient and user-friendly
platform for his gaming needs.

Requirements Extraction scenarios hierarchical task analysis

First scenario :



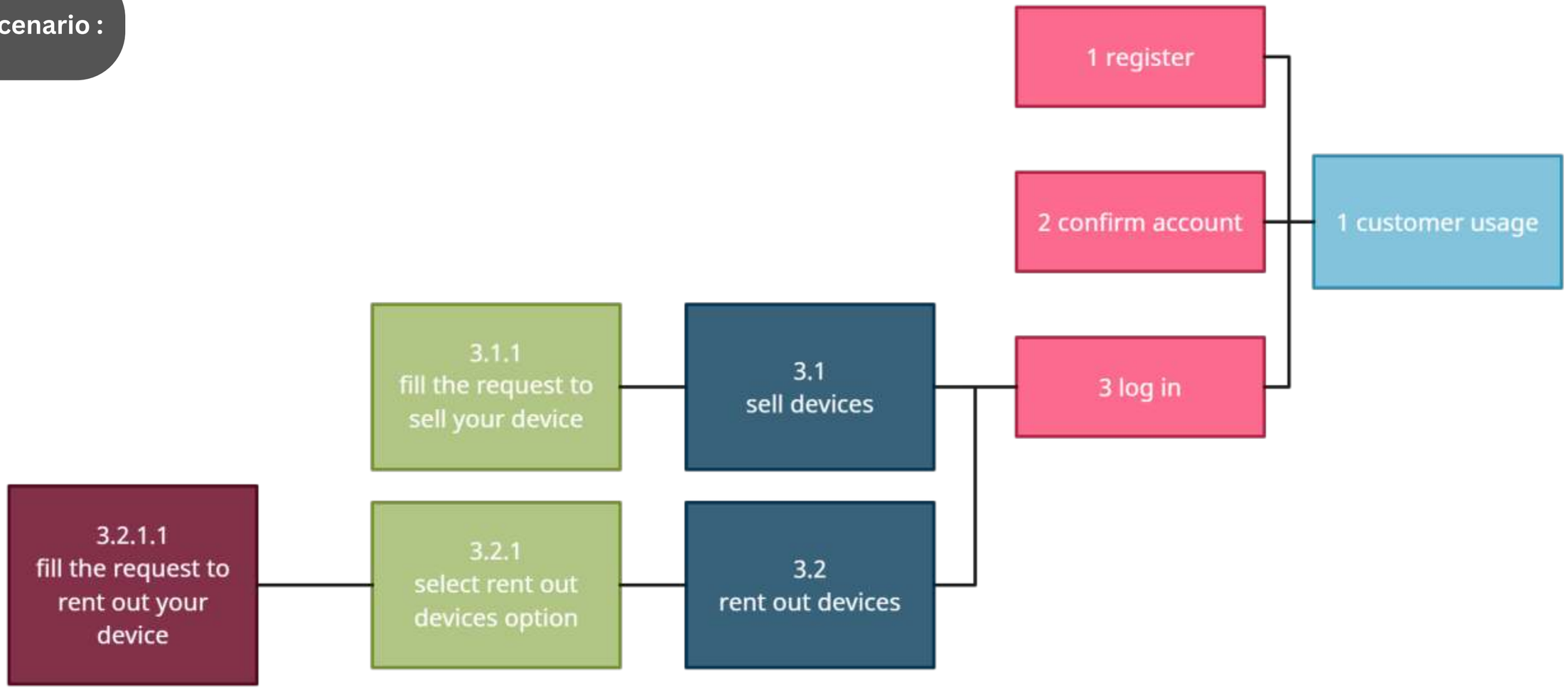
Requirements Extraction scenarios

Second scenario :

Luis is a technician who runs a device store where customers come to get their devices fixed. Recently, he noticed that his store was not generating enough income or attracting enough customers. He searched online for a solution but had trouble finding one. That's when he discovered the Eletoo app and its sell feature. Luis realized that he could sign up his store as a sell shop on the app, which would allow users to easily find and contact his store to buy devices and even rent devices from his store. He decided to give it a try, and after signing up, he noticed a significant increase in customers coming to his store. As a result, his business expanded rapidly, and he began to generate more income. Luis is now very happy with the Eletoo app, which has helped him improve his business and expand his devices store. Because of the Eletoo's sell feature, he was able to reach more customers and grow his business in ways that he couldn't before.

Requirements Extraction scenarios hierarchical task analysis

Second scenario :



Founded Requirements

As a result of our interviews we got the opportunity to collect information to identify the required functionalities of the software product:

Type of Requirments	List of Requirments
Usability Requiments	• The app will be designed for mobile devices and is not compatible with desktop computers. It will be available on the Google Play Store for Android devices and the Apple App Store for iOS devices
Functional Requirments	• The user can buy devices • The user can sell devices • The user can repair his/her device by sending it to repair shops • The user can safely exchange devices with other users • The user will be able to rent devices • The user will have the opportunity to stay up-to-date with the latest news and information about devices • The user can compare devices with each other to find the better device
Non-Functional Requirments	• The app will require account creation and confirmation • The app will require an account with a strong password

Low-fi prototype
paper prototyping

Welcome and main functions

Low-fi prototype
paper prototyping

buy function

Low-fi prototype
paper prototyping

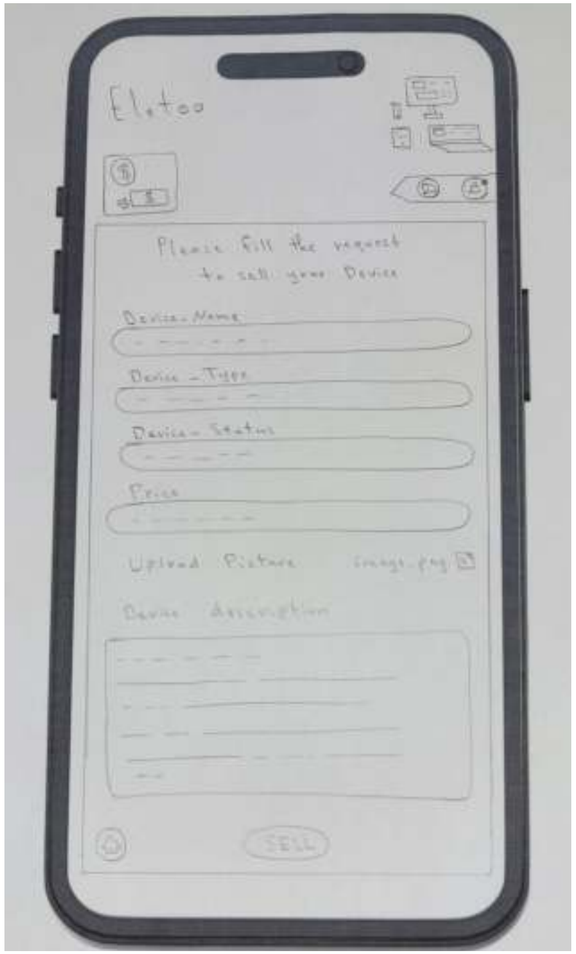
repair function

Low-fi prototype
paper prototyping

news about new devices function

Low-fi prototype
paper prototyping

sell function



Low-fi prototype
paper prototyping

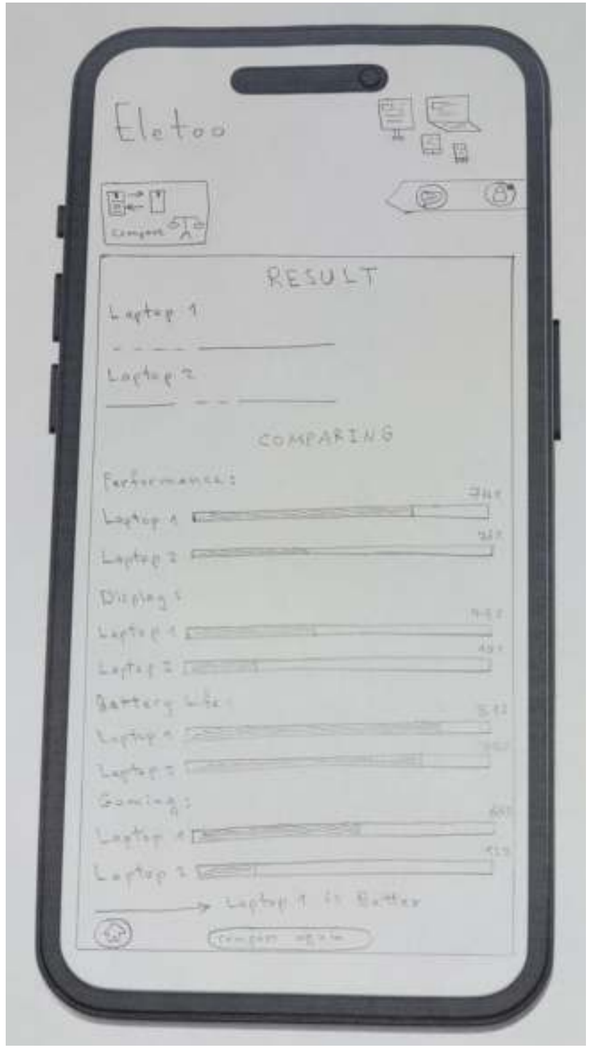
rent function

Low-fi prototype
paper prototyping

rent out function

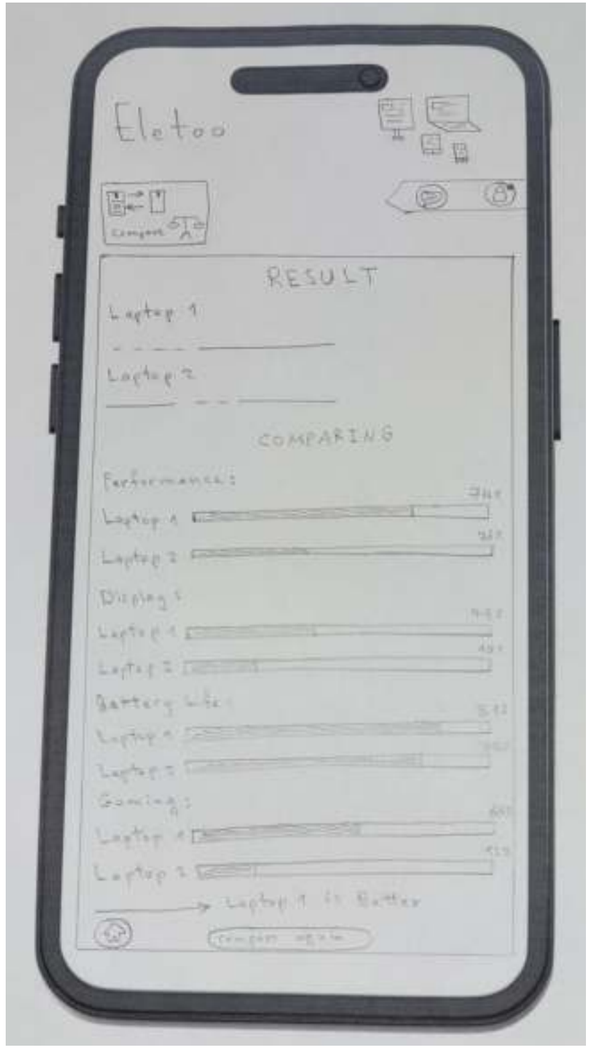
Low-fi prototype
paper prototyping

compare function



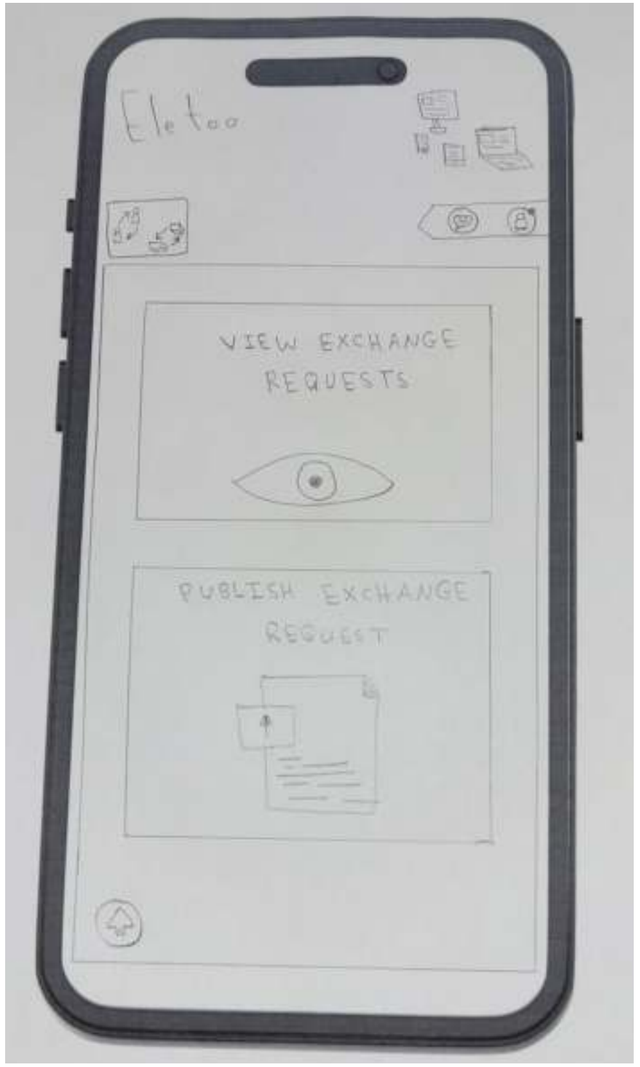
Low-fi prototype
paper prototyping

compare function



Low-fi prototype
paper prototyping

exchange function

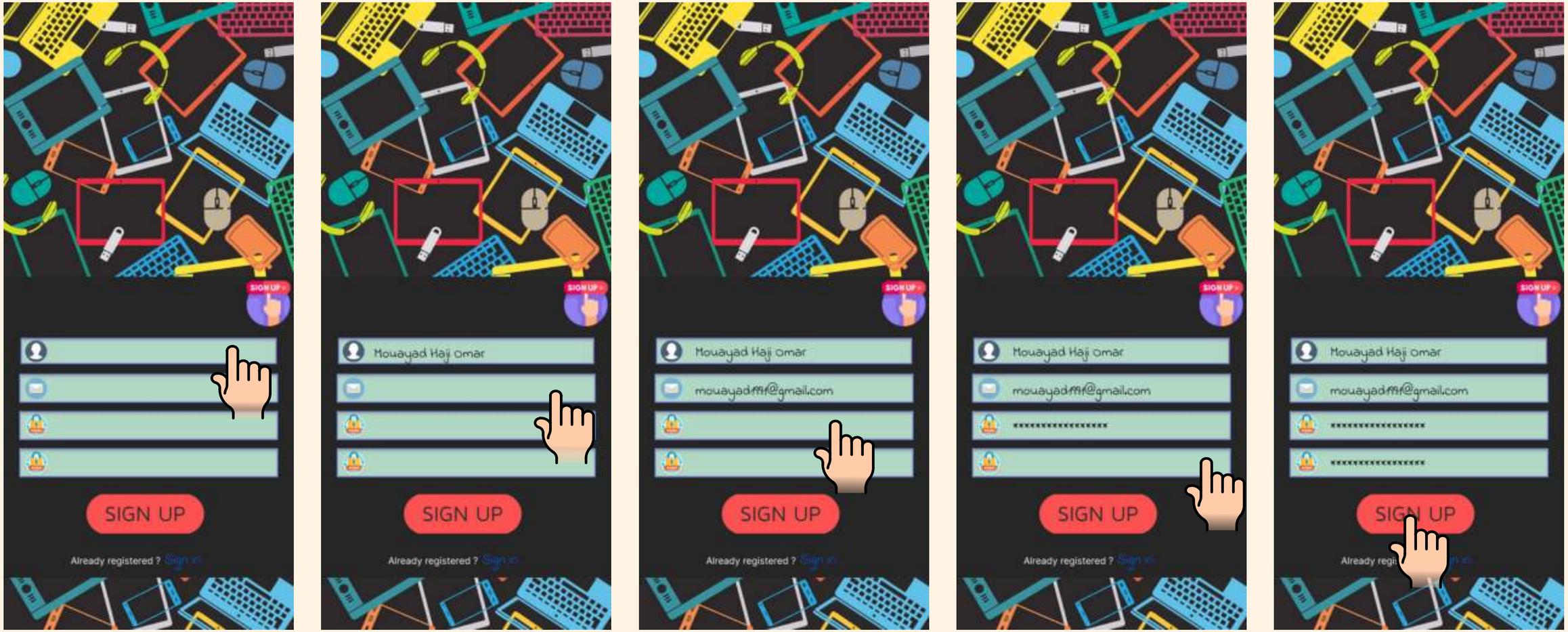


exchange with existing request

make your own request

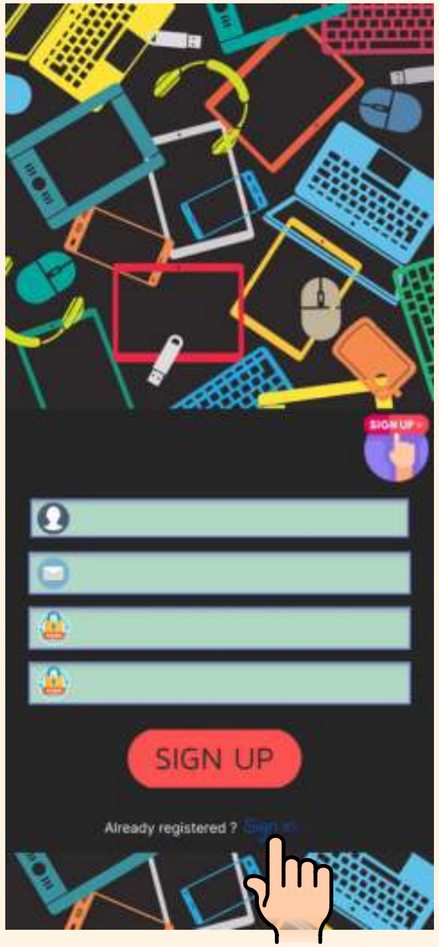
Hi-fi prototype
visual prototyping

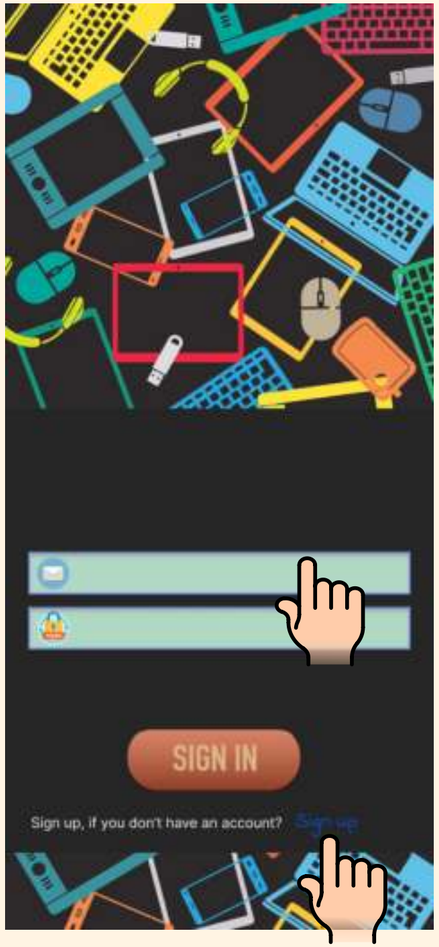
Sign up



Hi-fi prototype
visual prototyping

Sign in

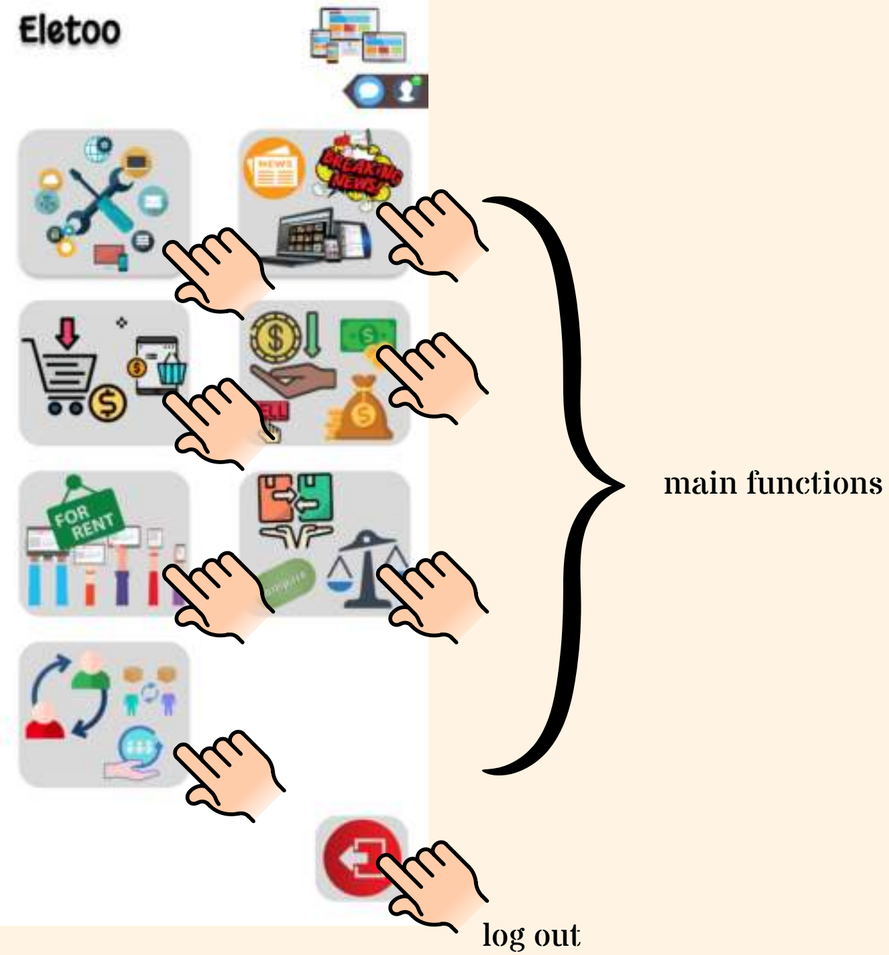




if you want to sign up again

Hi-fi prototype
visual prototyping

Welcome and functions



Hi-fi prototype
visual prototyping

repair function

Hi-fi prototype
visual prototyping

repair function

Hi-fi prototype
visual prototyping

repair function

2

back to home page

1

Hi-fi prototype
visual prototyping

buy function

Hi-fi prototype
visual prototyping

Sell function

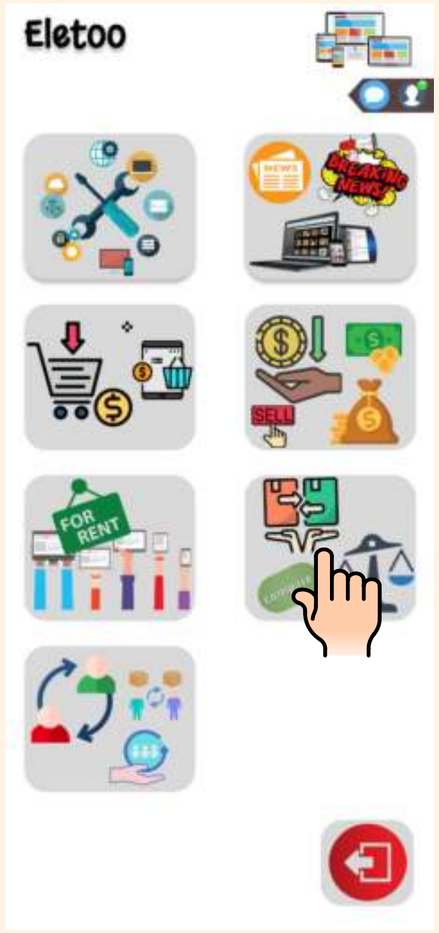
Hi-fi prototype visual prototyping

Sell function

Hi-fi prototype visual prototyping

Compare function

2



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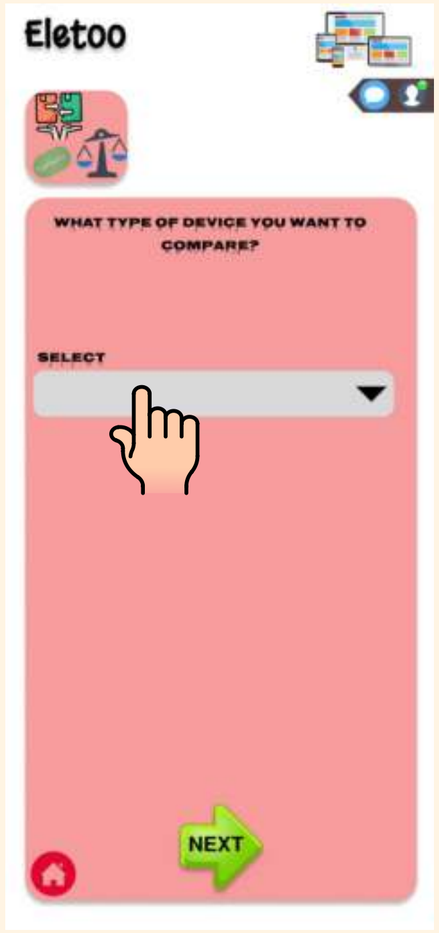
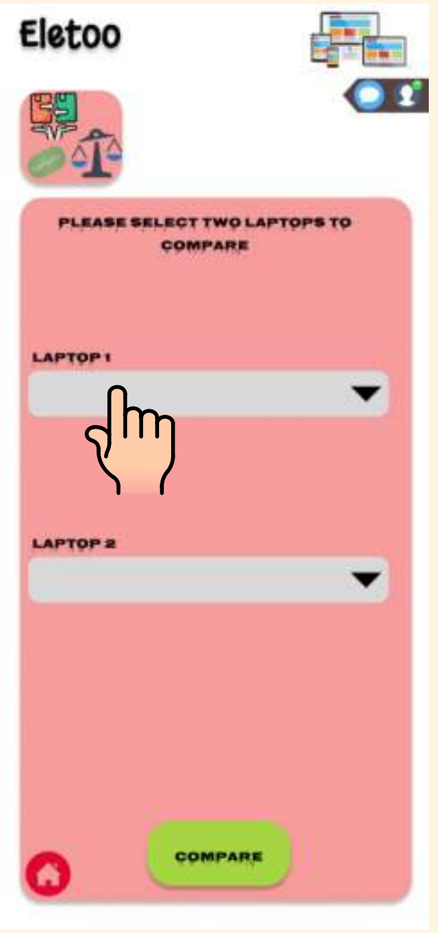
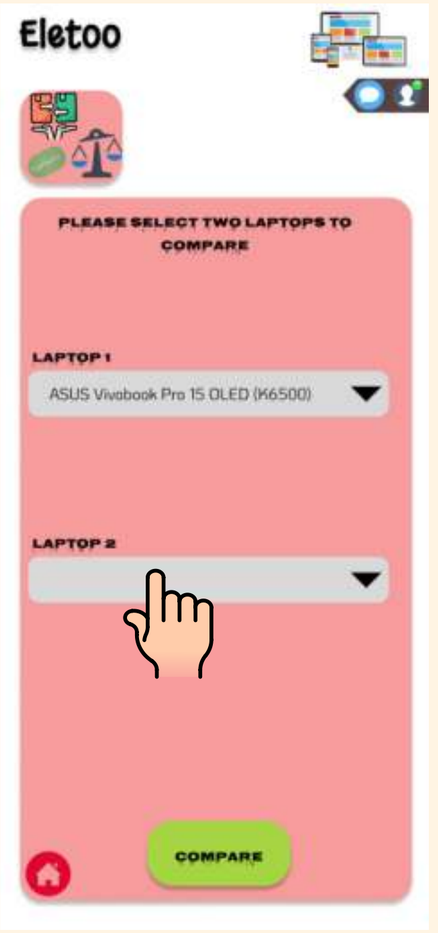
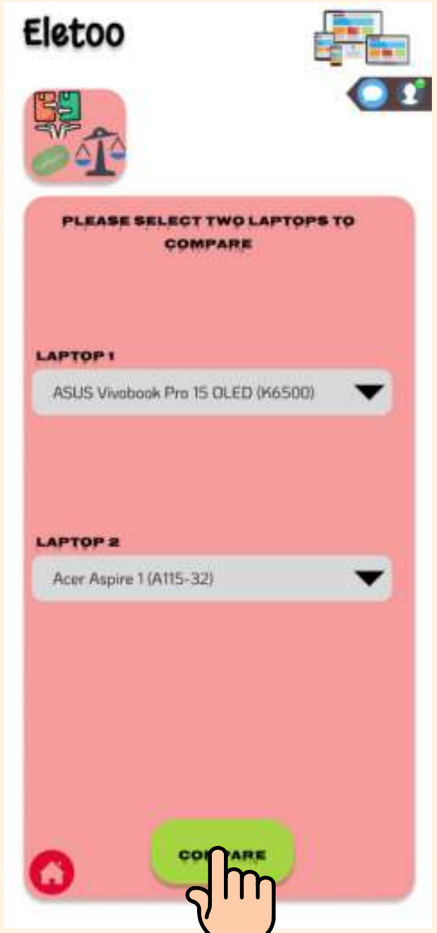


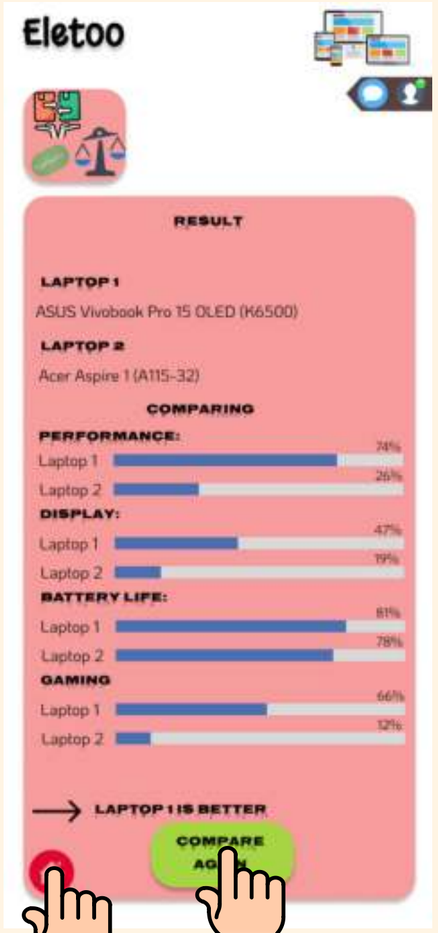




Hi-fi prototype
visual prototyping

Compare function



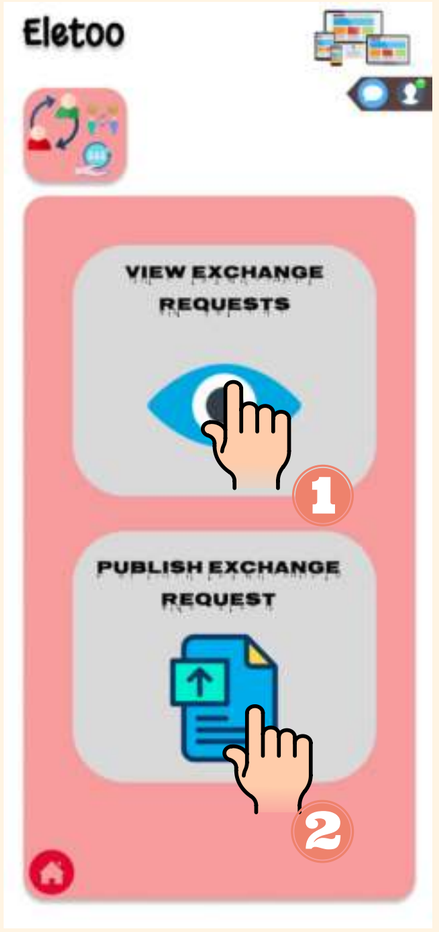


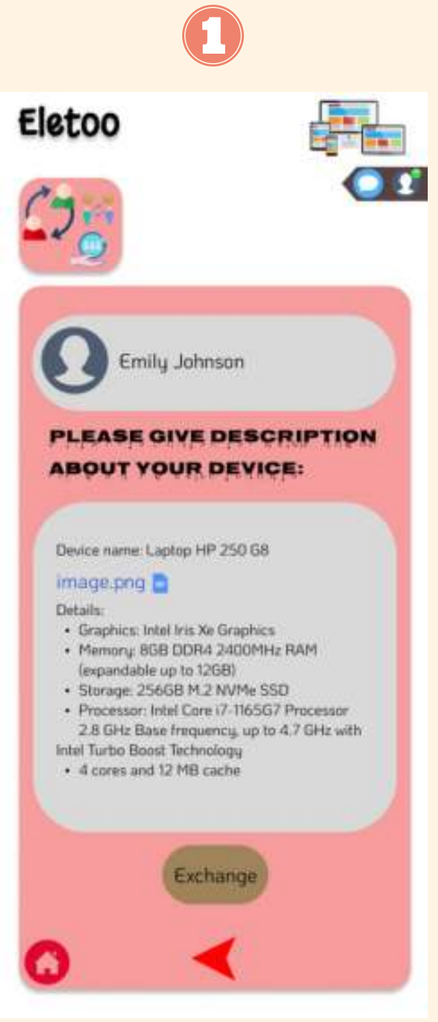
2

1

Hi-fi prototype
visual prototyping

Exchange function



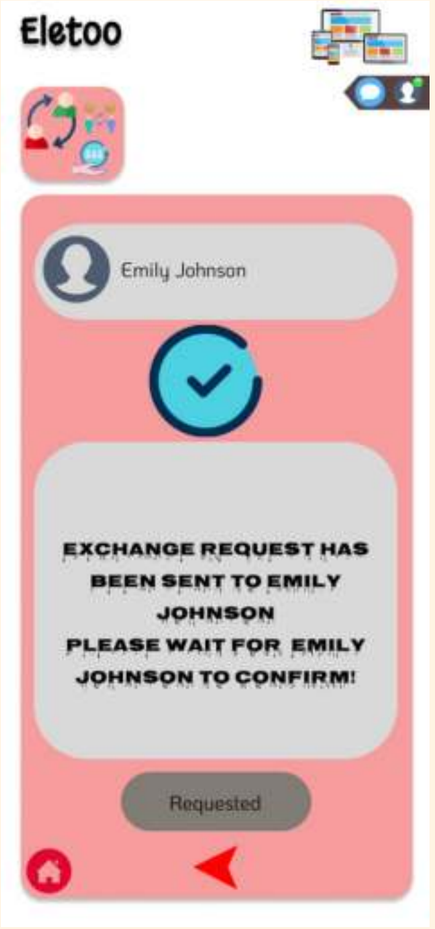


Hi-fi prototype
visual prototyping

Exchange function

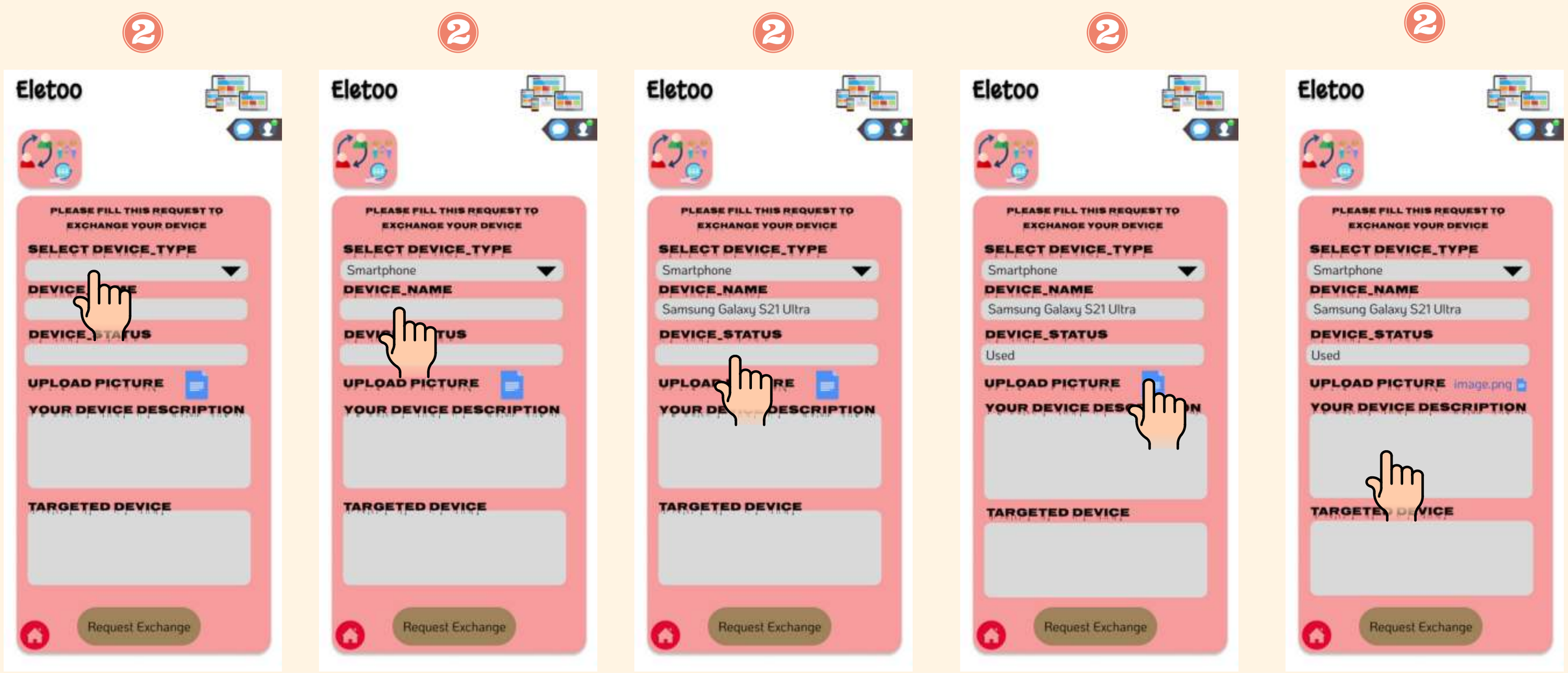
1

1



Hi-fi prototype
visual prototyping

Exchange function



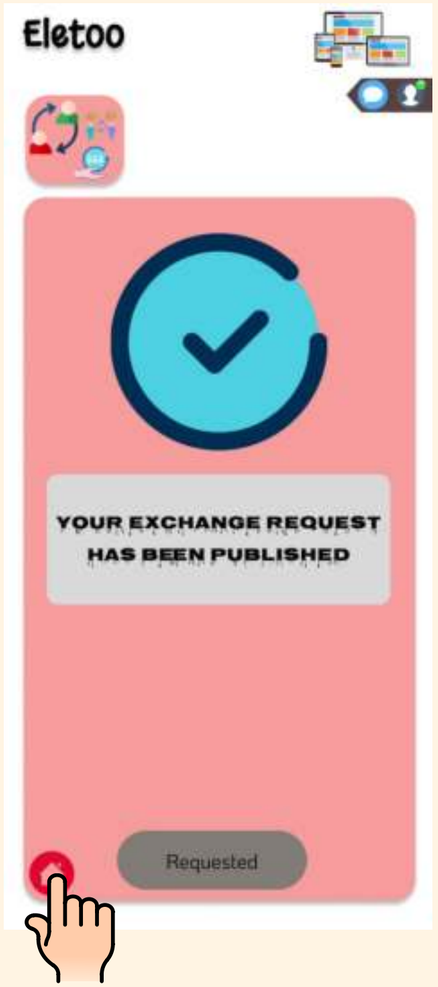
Hi-fi prototype
visual prototyping

Exchange function

2

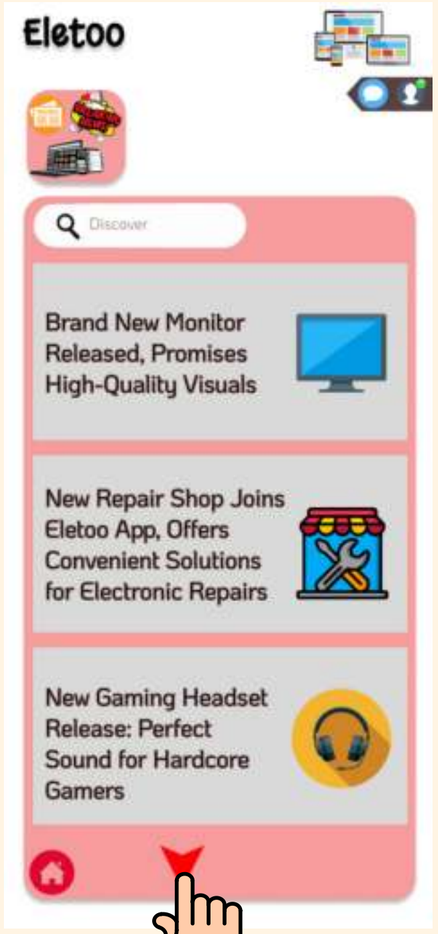
2

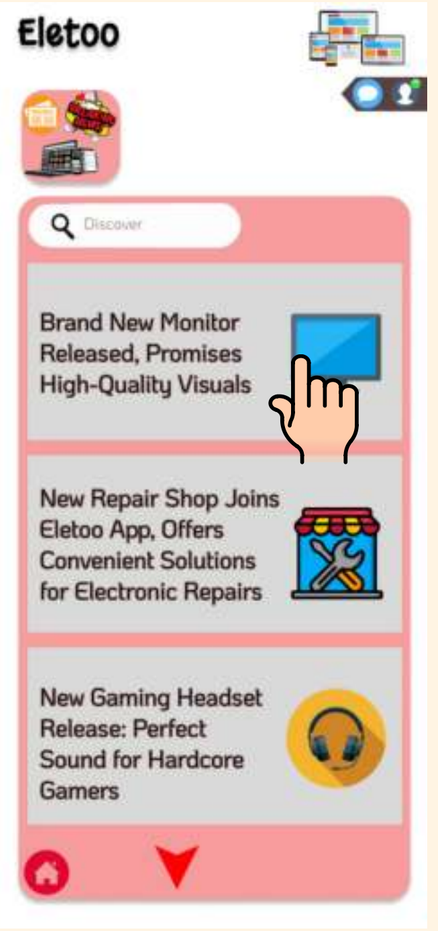
2



Hi-fi prototype visual prototyping

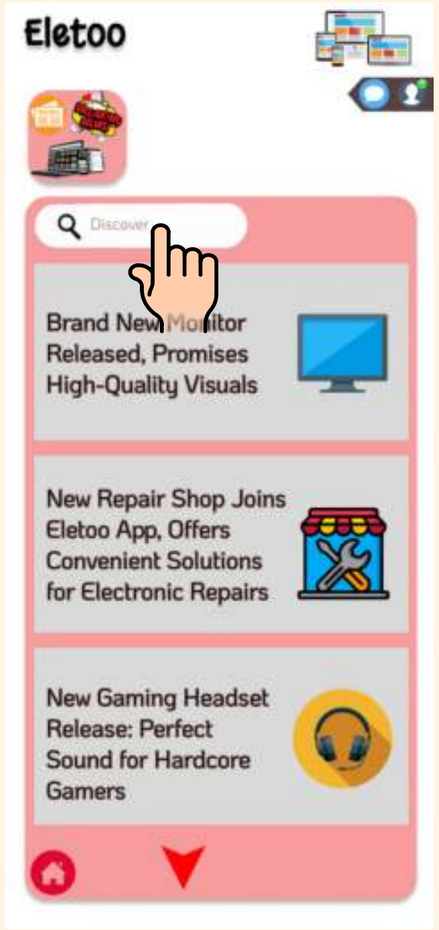
News function

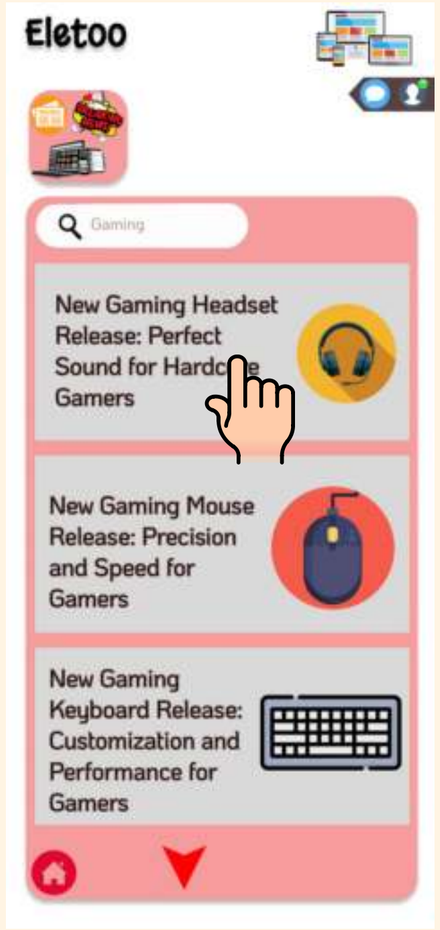


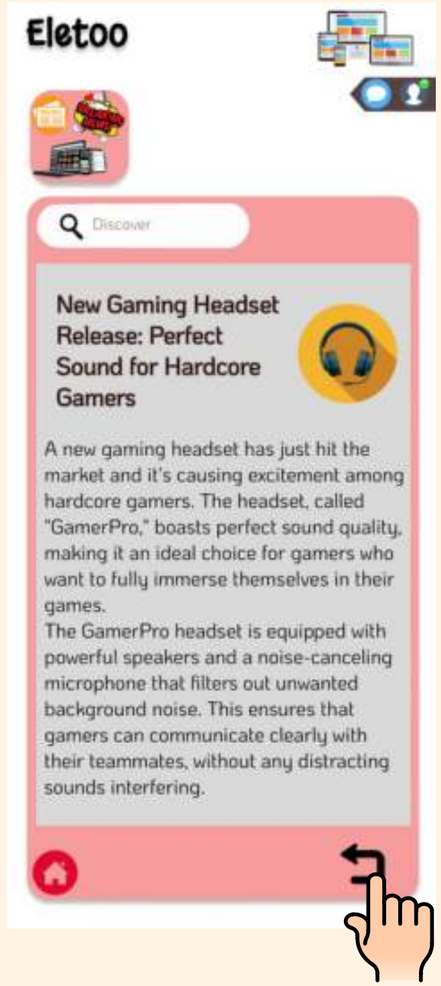


Hi-fi prototype
visual prototyping

News function







Hi-fi prototype
visual prototyping

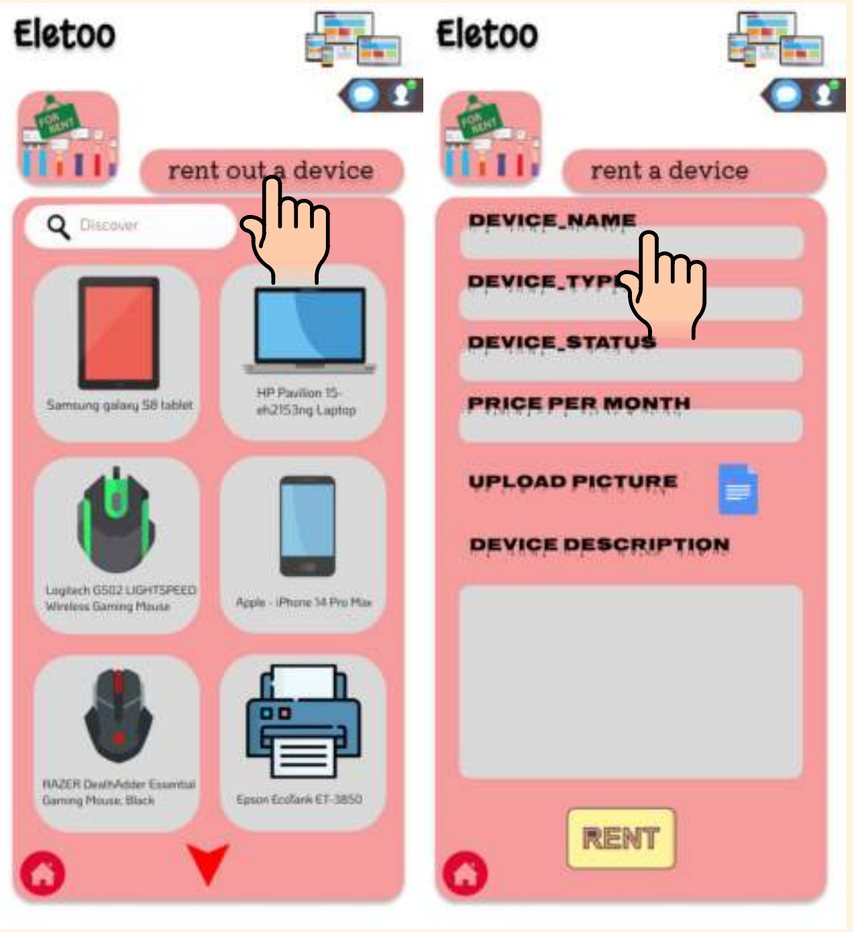
rent function

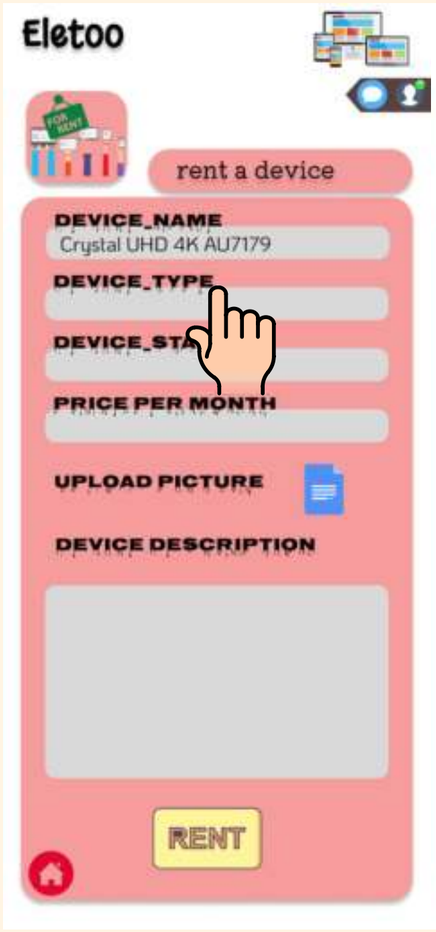
Hi-fi prototype
visual prototyping

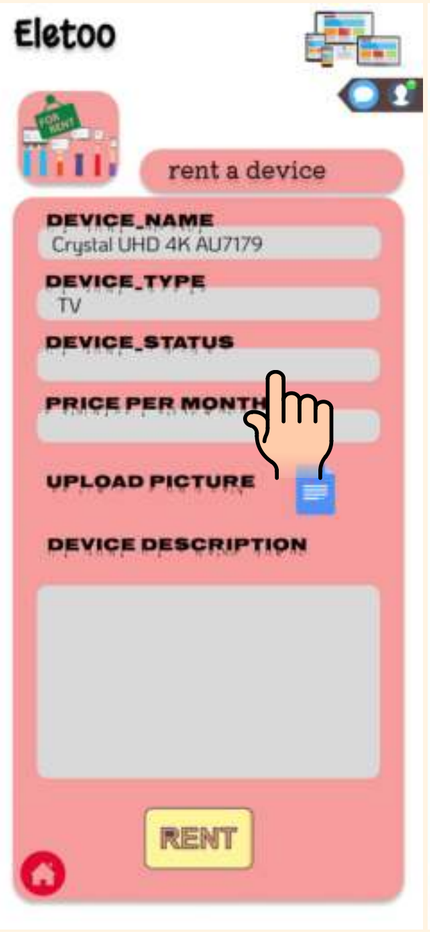
rent function

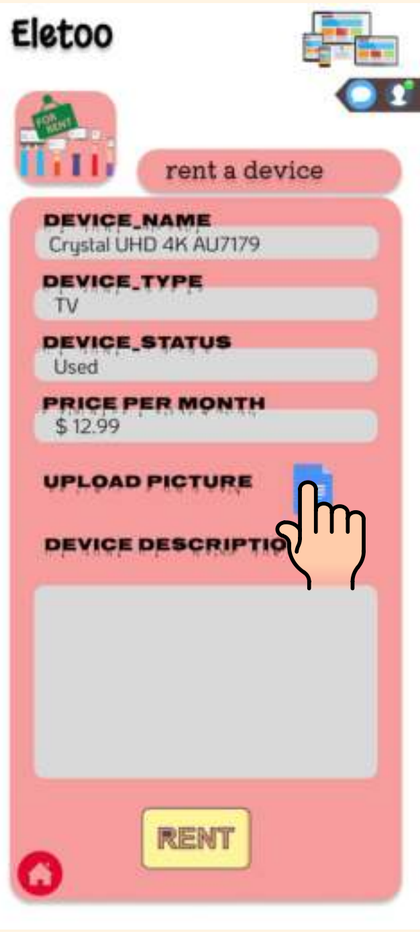
Hi-fi prototype
visual prototyping

rent function



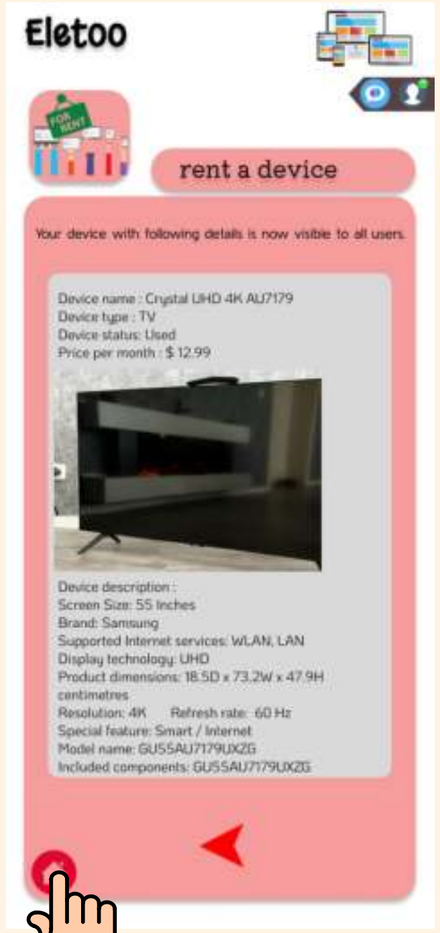






Hi-fi prototype
visual prototyping

rent function



Hi-fi prototype
visual prototyping

link to figma :

https://www.figma.com/file/QRTe0SBSsLRmCcRn5MbpJK/Untitled?node-id=30%3A4&t=dLMvEZeaCuxlOvtB-1