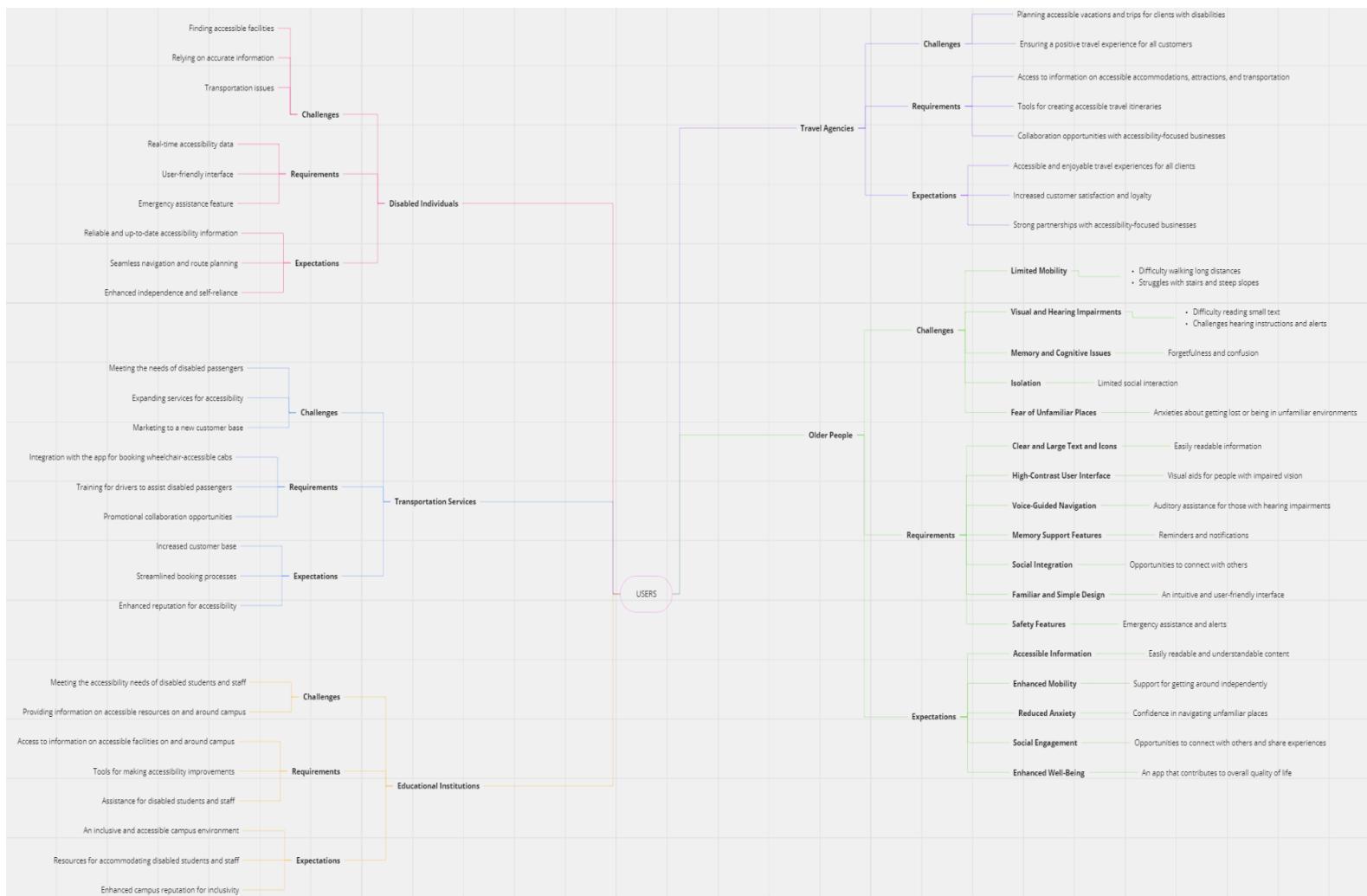
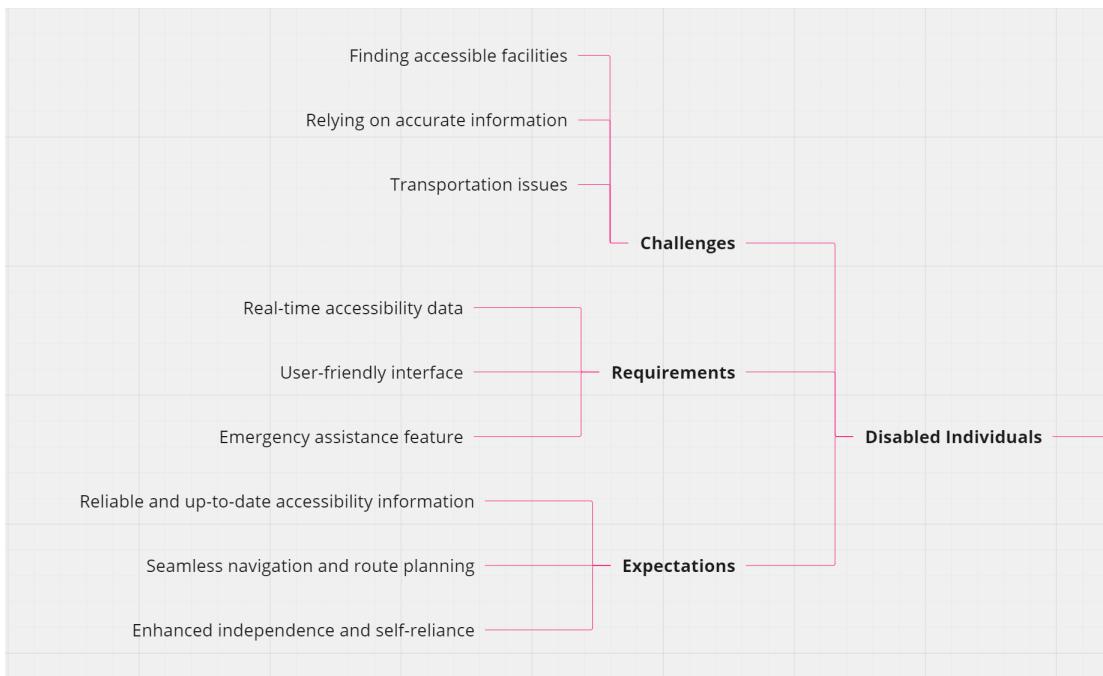


# Refined Gathering

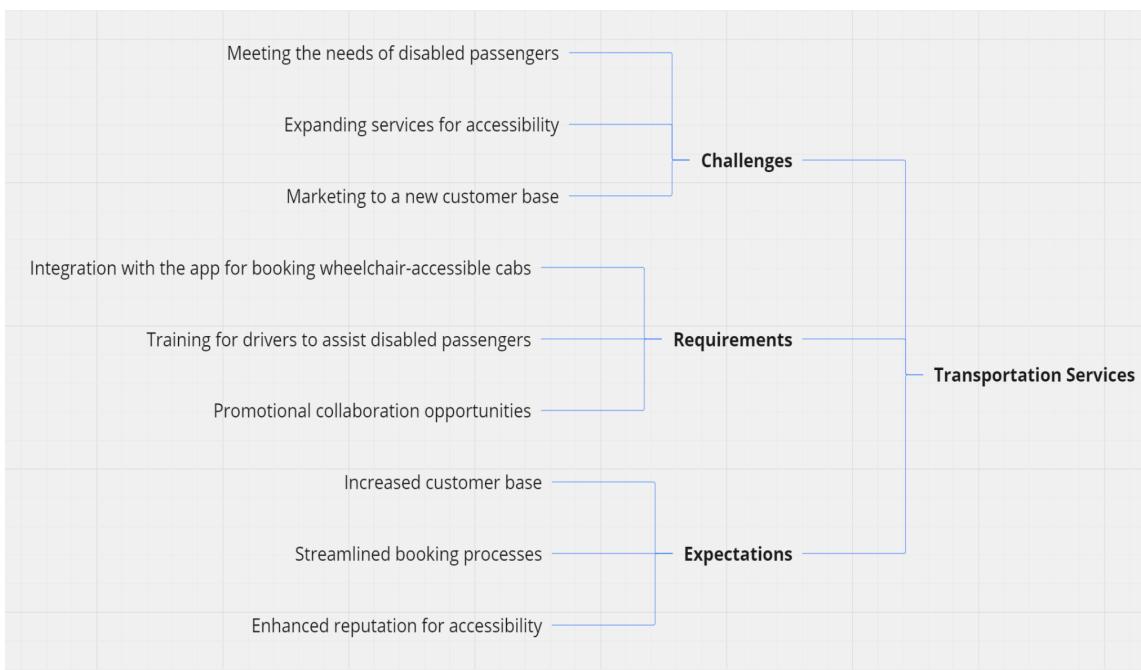
## Mindmap



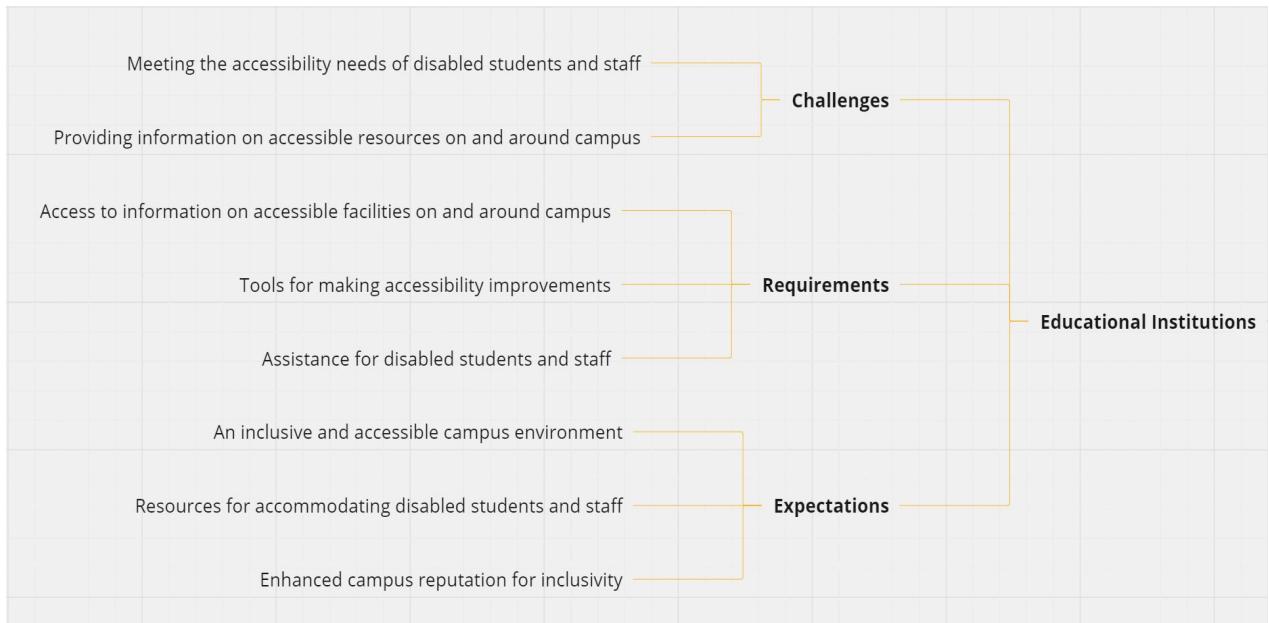
## 1) Disabled Individuals:



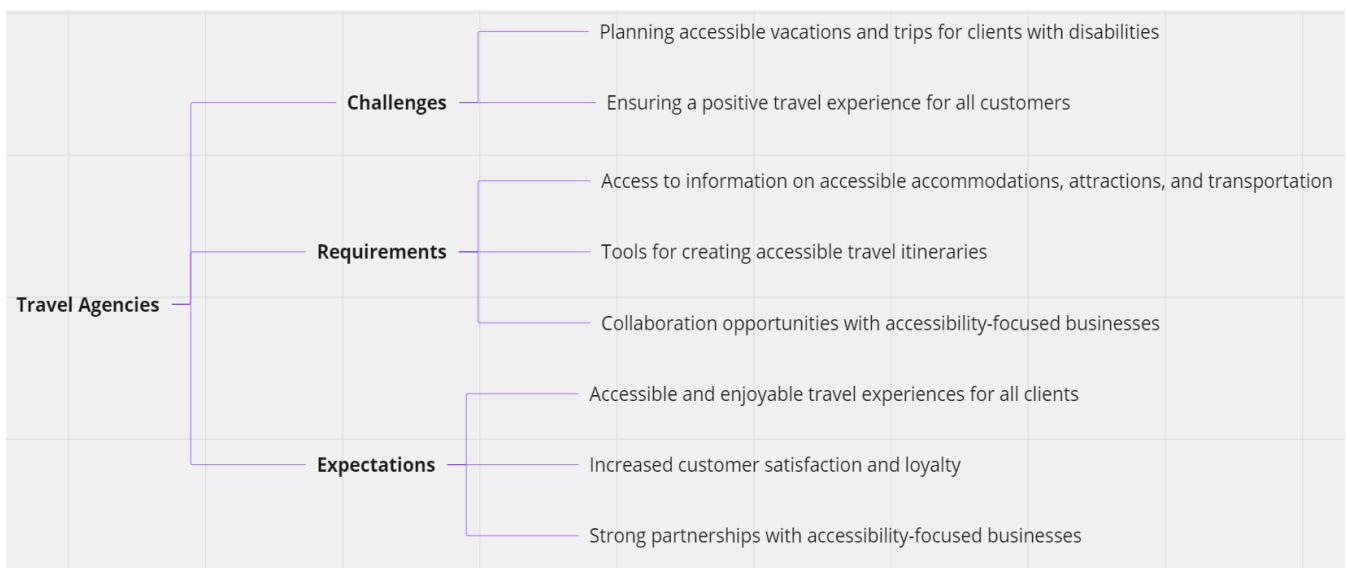
## 2) Transportation Services:



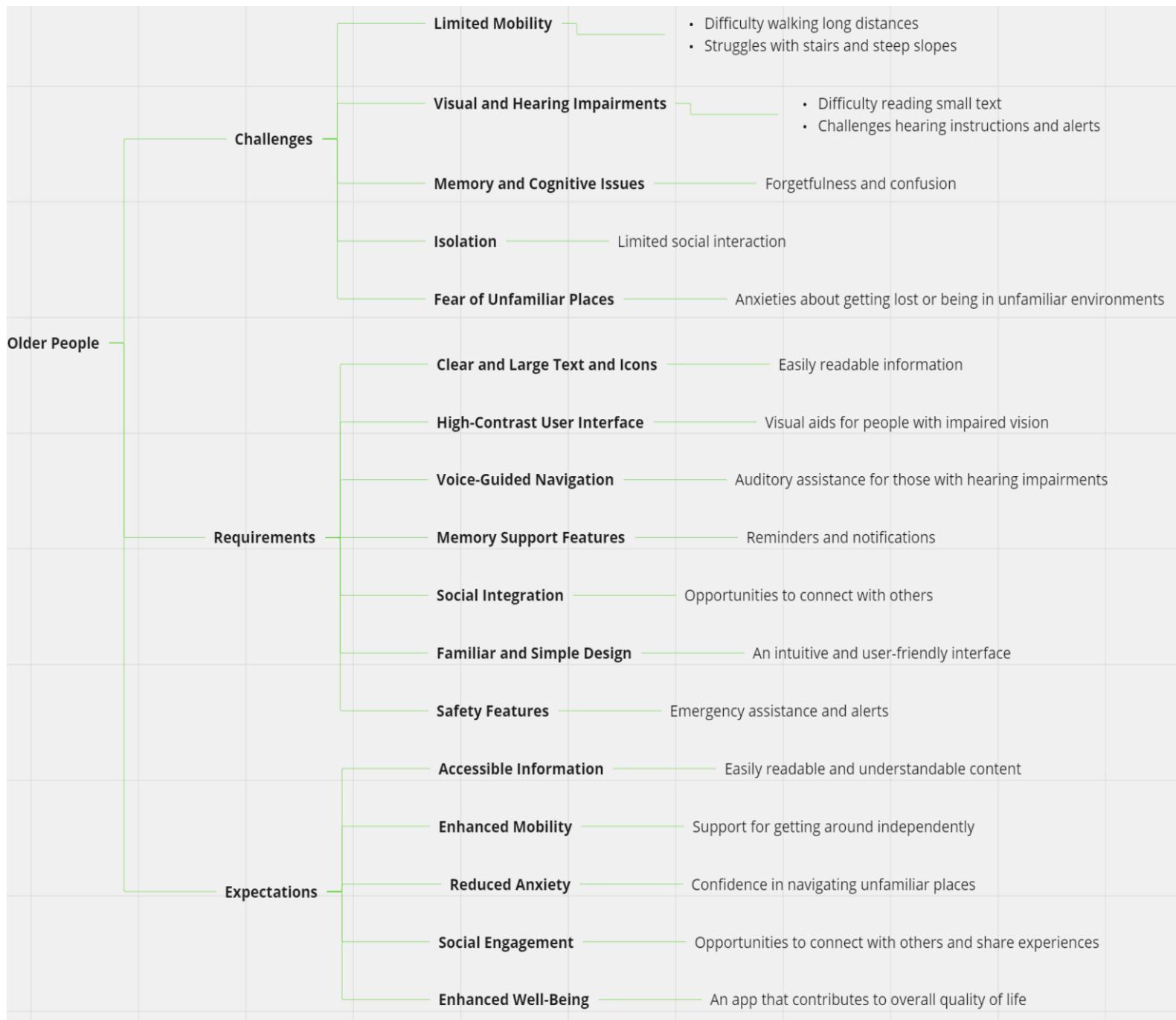
### 3) Educational Institutions:



### 4) Travel Agencies:

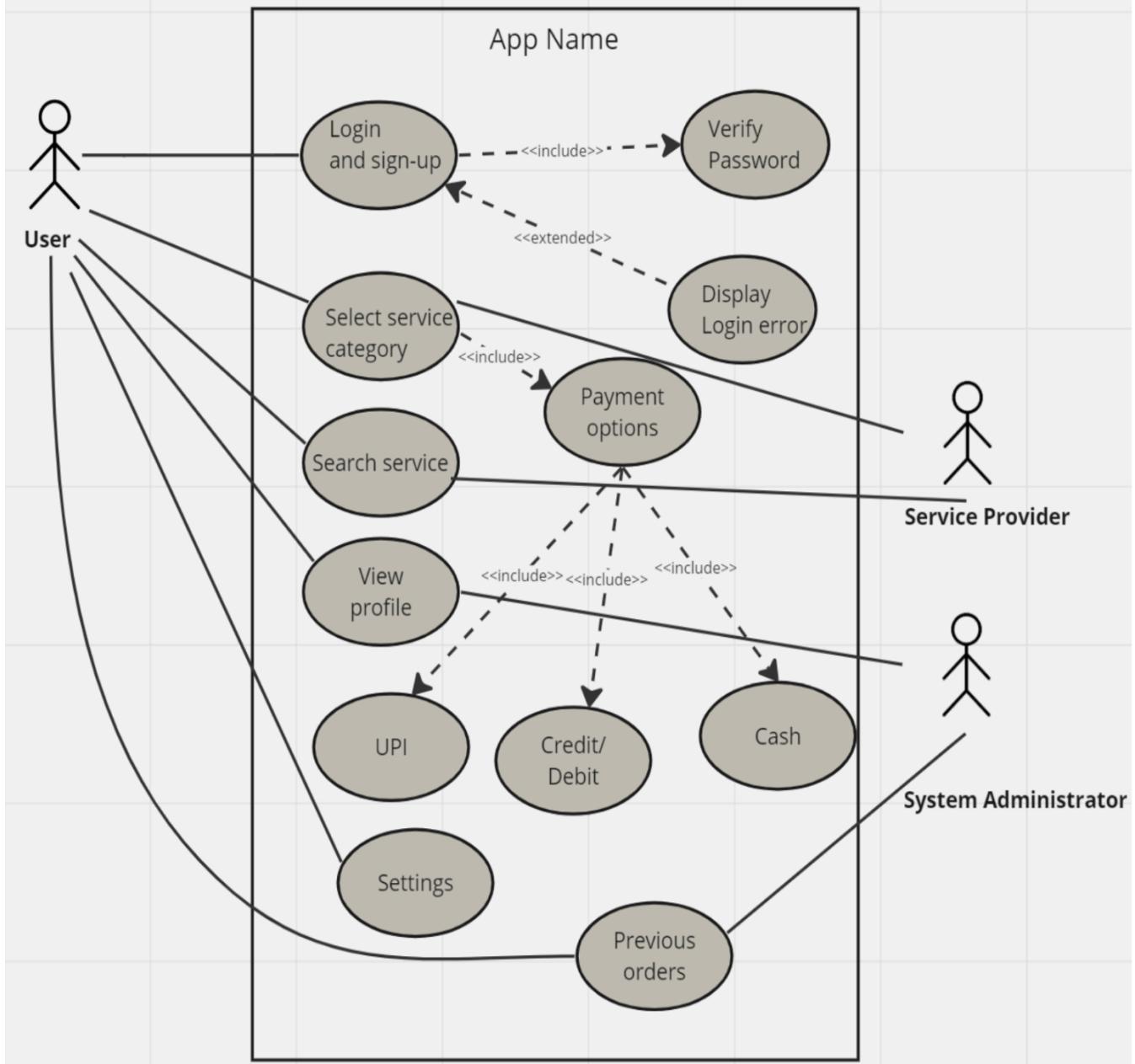


## 5) Older People:



## Use-Case Diagram

### Use Case Diagram



# Refined Personas and Scenarios

## Personas

1)

### Energetic Ishan

<b>Gender</b>	Male
<b>Age</b>	30
<b>Location</b>	Bahadurgarh, Haryana
<b>Marital Status</b>	Married
<b>Education</b>	BCA



**"In a world filled with noise, silence is a powerful statement."**

**About**  
Ishan is a dedicated office professional. He lives in Bahadurgarh with his parents and wife. He belongs to the middle class, so he works hard in order to be able to go up in life. He loves playing football with his friends and is also a curious individual. He does not let his hearing impairment come in the way of his work. His daily commute is a mix of cab rides and public transportation.

**Goals**

- He hopes for improved accessibility in public transport by including visual aids for his assistance.
- He strives to overcome communication barriers, especially during his commute.
- He aspires for public spaces to be more hearing aid friendly.

**Frustrations**

- Public transportation is challenging as it lacks accommodation for individuals with hearing impairments.
- He often faces communication barriers when in a cab, especially when cab driver does not know of his hearing impairment.
- Noisy public spaces often restrict his ability to move around effectively.

2)

# Resolute Rohan

**Gender** Male

**Age** 20

**Location** Mumbai, Maharashtra

**Marital Status** Unmarried

**Education** 2nd year B Tech



**"Nothing can hold back a determined spirit."**

## About

Rohan is a determined college student living in Mumbai. He lives with his parents and sister. He loves to watch and play cricket. Despite being in a wheelchair, he leads an active and ambitious life. He uses public transport to travel to his college. His college years aren't just about education; they are a testament to his indomitable spirit, proving that disability cannot deter dreams.

## Goals

- Aryan dreams of a Mumbai with universally accessible transport.
- He wants to be able to find wheelchair accessible places easily.
- He wants to promote inclusivity and awareness about disability, fostering a more empathetic and supportive public transportation environment.

## Frustrations

- Unpredictable public transport schedules can lead to missed classes.
- He feels that it is hard to locate places that are wheelchair accessible.
- Insensitive fellow passengers and transit staff can be disheartening, as he encounters a lack of understanding and assistance.

3)

# Mrs. Gupta

**Gender** Female

**Age** 64

**Location** Delhi

**Marital Status** Married

**Education** High school graduate



**"Age is no barrier to independence."**

## About

Mrs. Gupta, a senior citizen, lives in Delhi with her husband. Her children live in another state because of their work. She relies on the public transportation system to accomplish her daily chores like buying groceries and to meet her friends and family. Having lived here for decades, she has become an integral part of the community and her life revolves around navigating the complex Delhi transport network.

## Goals

- Accessibility - She wants to see improvement in station accessibility with ramps and seating options for the elderly.
- Safety - Her ultimate goal is to feel safe and secure during her travels
- Comfortable commute - She hopes for a more efficient and less congested public transportation system.

## Frustrations

- Overcrowded buses and trains - She finds public transport excessively crowded, leading to discomfort and anxiety.
- Safety concerns - She worries about safety issues on public transport, especially during evening journeys.
- Inadequate accessibility - Stations and buses lack senior-friendly facilities, making it difficult for her to board and alight.

## **Scenarios**

### **1) How Rakesh, a 23-year-old guy with an auditory disability, living in Delhi uses HandiMap.**

Rakesh, a vibrant young man from Delhi, India, embraces life with enthusiasm despite his auditory disability. His world becomes more accessible and navigable through the ingenious features of the HandiMap app. One sunny day, Rakesh decides to explore the bustling markets of Chandni Chowk, known for their vibrant colors and historical charm. Equipping himself with HandiMap, he embarks on this adventure.

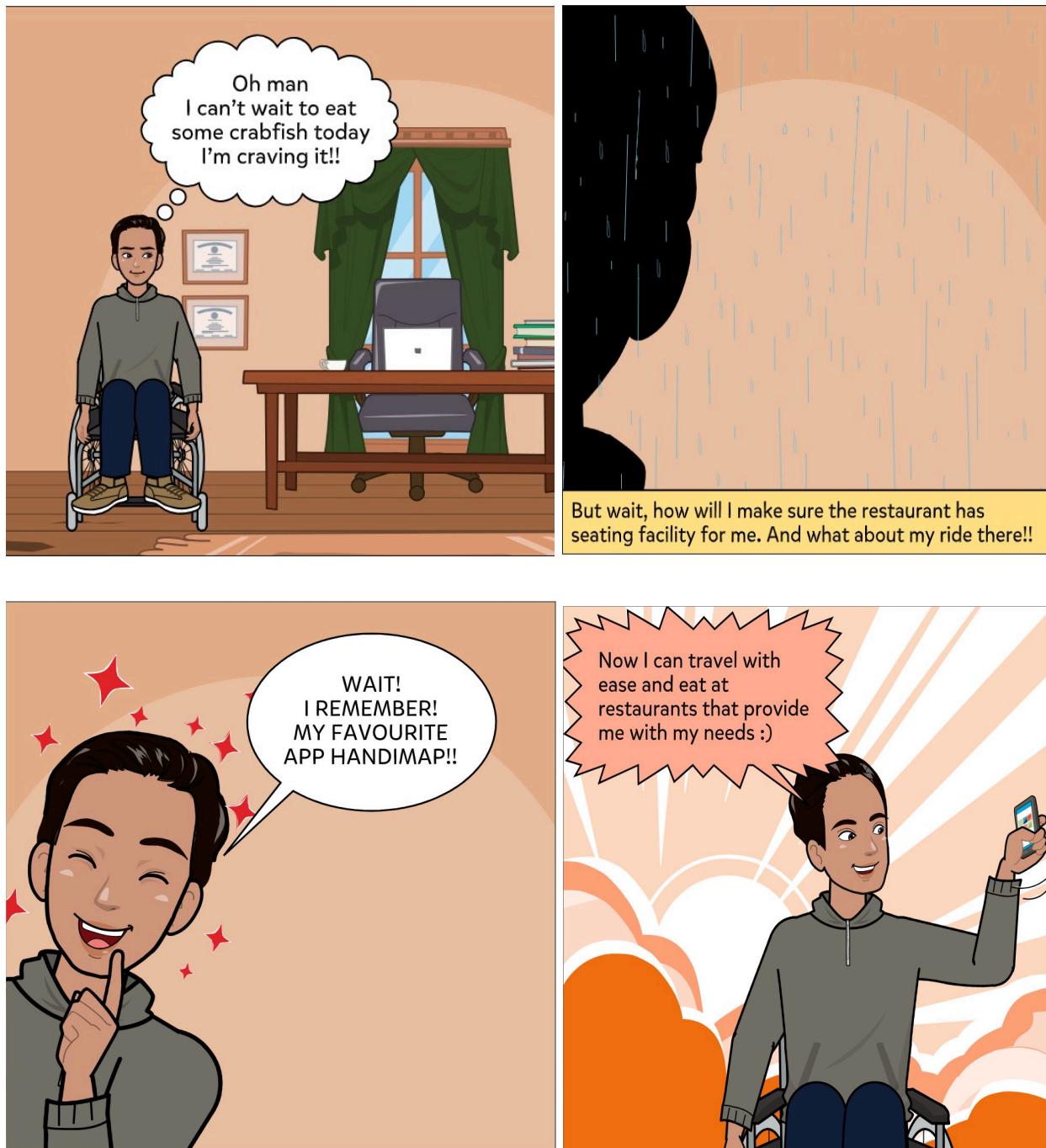
As he strolls through the narrow lanes, Rakesh encounters a lively street vendor who enthusiastically describes the history of the area. Rakesh activates HandiMap's Speech-to-Text feature, capturing the vendor's words in real time. The app swiftly converts the spoken information into text on Rakesh's screen, allowing him to follow along with the narrative seamlessly.

Later in the day, Rakesh joins friends at a local eatery. The ambient noise poses a challenge for him, but HandiMap comes to the rescue with its Recording Volume Enhancer. Activating this feature, Rakesh adjusts his smartphone's recording volume, ensuring that every conversation and laughter is captured distinctly. The app becomes his auditory ally, enhancing the soundscape of his social experiences.

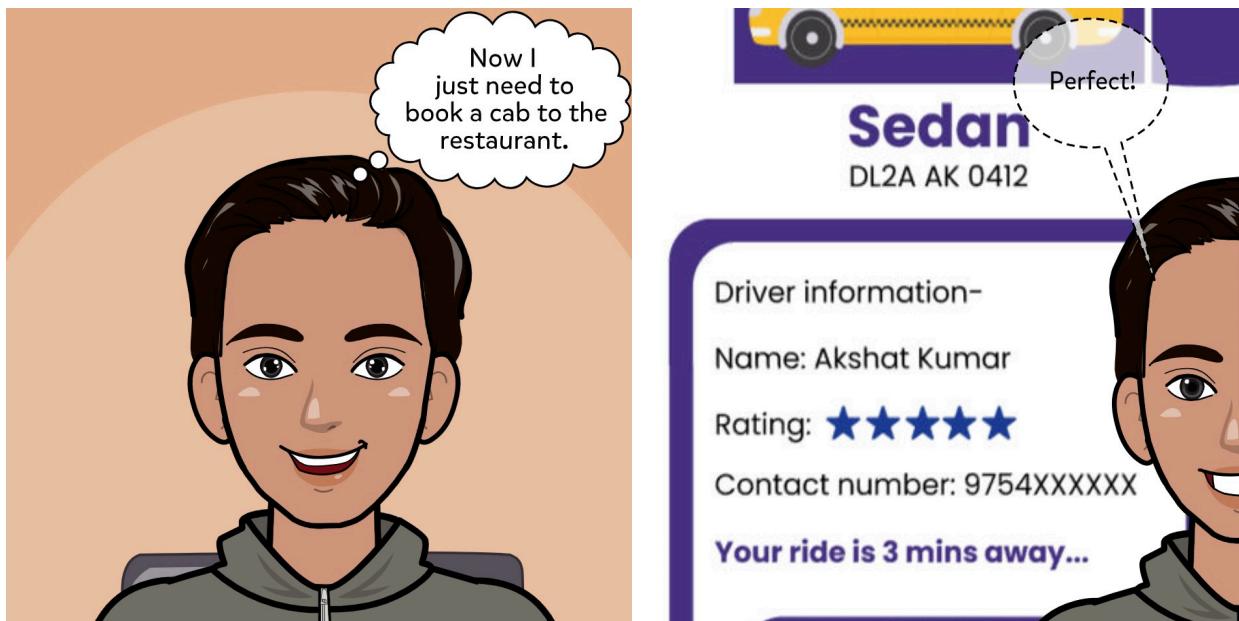
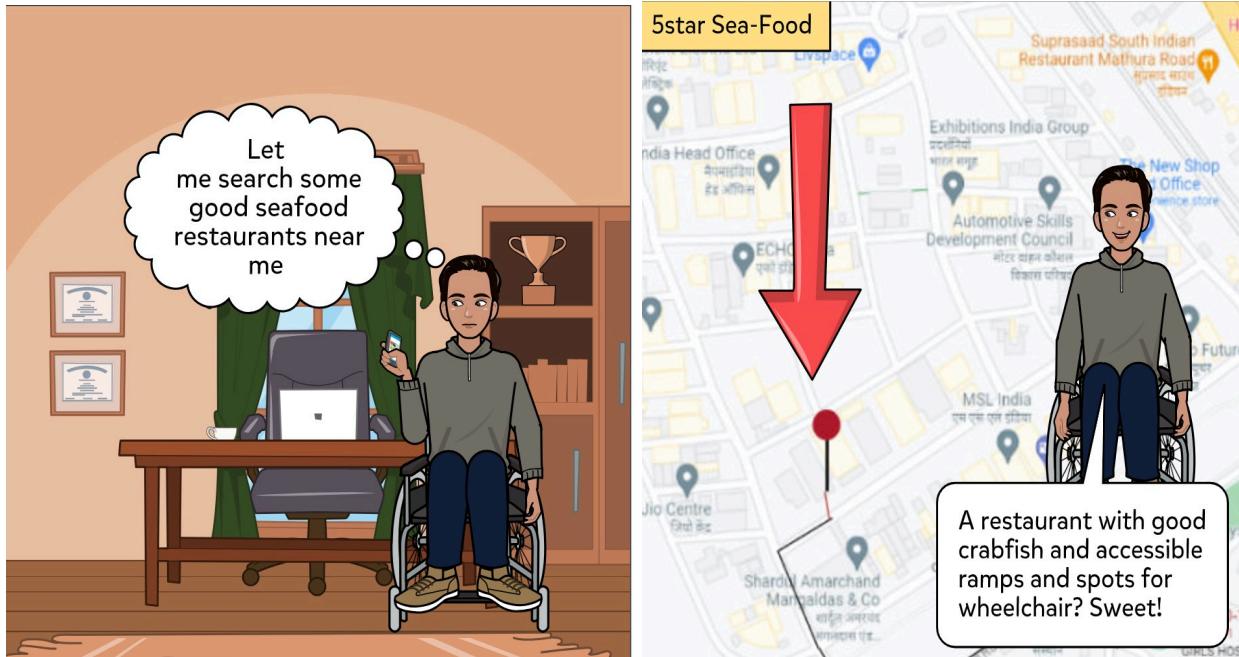
As the day unfolds, Rakesh decides to visit a historical site. HandiMap's Audio Descriptions feature enriches his exploration by providing detailed information about the surroundings. From architectural nuances to historical anecdotes, the app paints a vivid picture of the site, transforming Rakesh's visit into an immersive and educational experience.

In the evening, Rakesh reflects on his day, made possible by the seamless integration of HandiMap into his life. The app has not only facilitated his exploration of Delhi's diverse landscape but has also empowered him to engage with his surroundings, fostering a sense of independence and connection in a world full of vibrant stories and experiences.

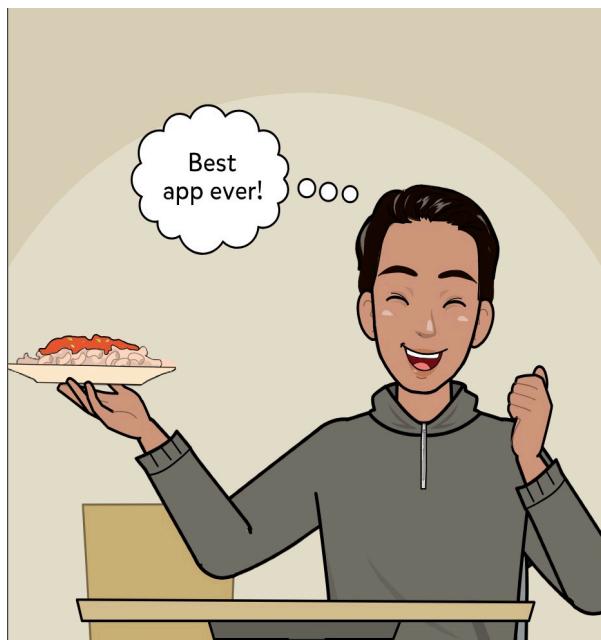
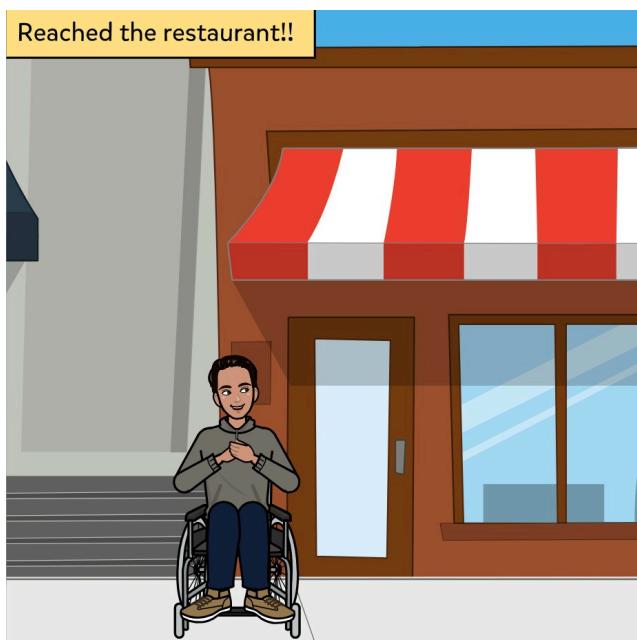
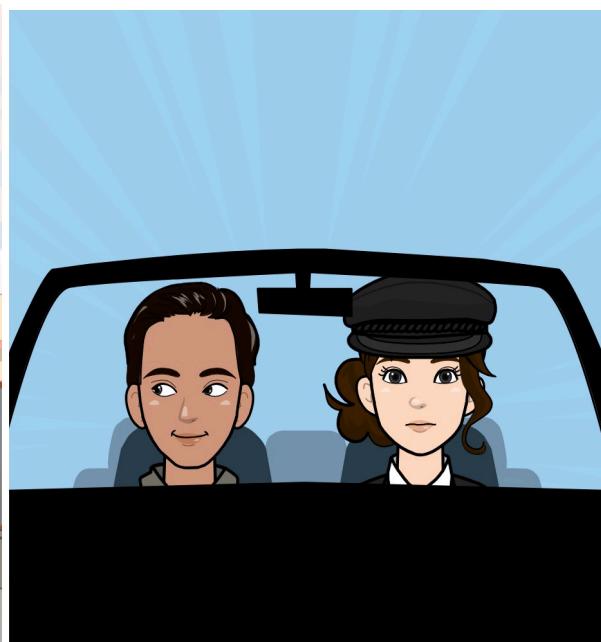
2) Rohan, a physically impaired person's journey of using HandiMap:



(P.T.O)



(P.T.O)



## Refined Problem Understanding

HandiMap, our innovative project, springs from a deep understanding of the intricate challenges that weave into the daily lives of individuals navigating the world with disabilities. The heart of our endeavor lies in fostering independence and social connection for this community, addressing a dual-layered challenge with thoughtful precision. We have designed an app that helps find accessible businesses such as hotels, restaurants, public restrooms, etc. The problem it tackles is two-fold: first, the challenge of locating disability-friendly spaces in a world where such amenities are often scarce. Second, it aims to alleviate the mental and emotional burdens borne by disabled individuals due to societal exclusion, limited accessibility, and the reluctance to seek help. The app recognizes the diverse needs of its users and is motivated by the desire to provide a comprehensive solution to these challenges. HandiMap seeks to bridge the gap between disabled individuals and the welcoming, accessible world they deserve.

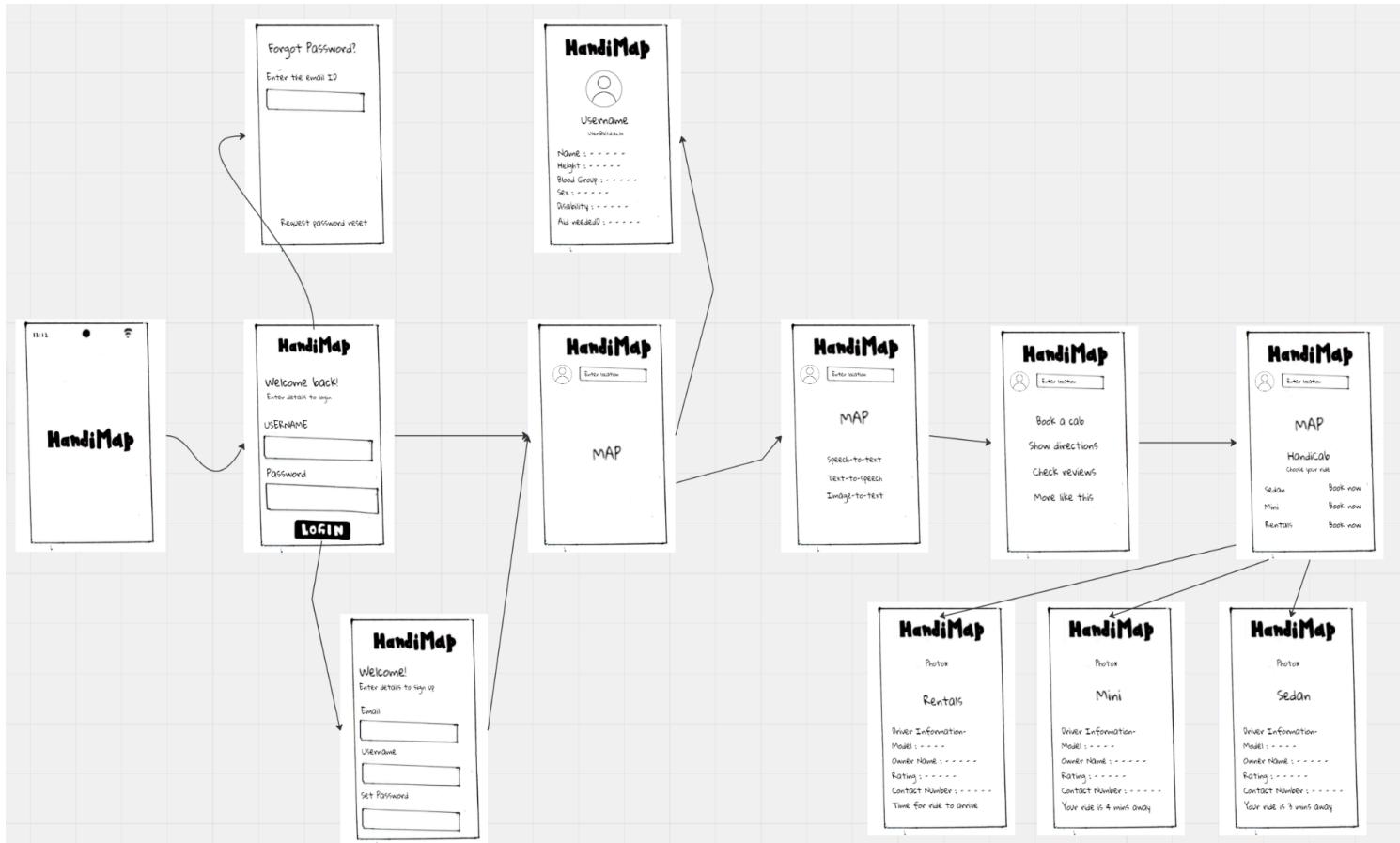
With features like text-to-speech and image-to-speech tailored to daily needs, HandiMap goes the extra mile with an emergency medical assistance button and wheelchair-friendly cab services, intending to be a reliable companion. In essence, HandiMap seeks to be a positive force, acknowledging and addressing the nuanced challenges individuals with disabilities face, contributing to a more accessible and compassionate world.

Not being able to find such businesses that have support and facilities for disabled folks is, unfortunately, a common problem amongst the community. We hope our app helps them overcome this issue to a certain extent.

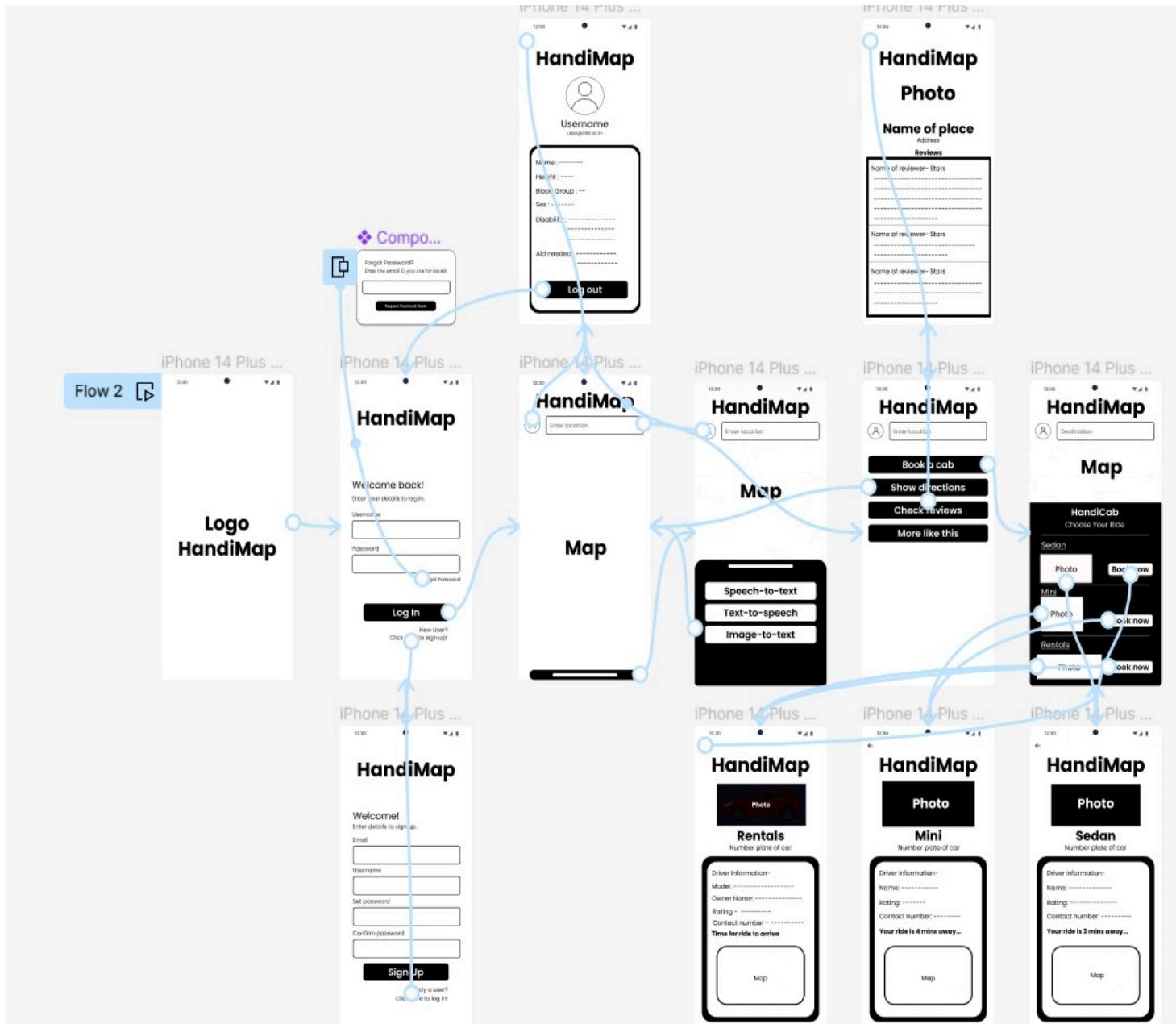
Medical professionals and experts serve as invaluable contributors to the HandiMap application. Their involvement ensures that the app is well-informed about the specific medical and accessibility needs of individuals with disabilities. They provide insights into the unique requirements of different conditions, enabling the app to recommend the most suitable places and accommodations.

Cab service workers are crucial partners in HandiMap's mission. They play a pivotal role in facilitating transportation for individuals with disabilities. By collaborating with cab services, HandiMap can provide real-time access to accessible transportation options, ensuring that users can easily reach the recommended disability-friendly locations. This partnership enhances the overall mobility and convenience of the app's users, further reinforcing its commitment to improving the lives of those with disabilities.

# Refined Lo-Fi Design



# Mid-Fi Prototype



Working Prototype Figma Link:

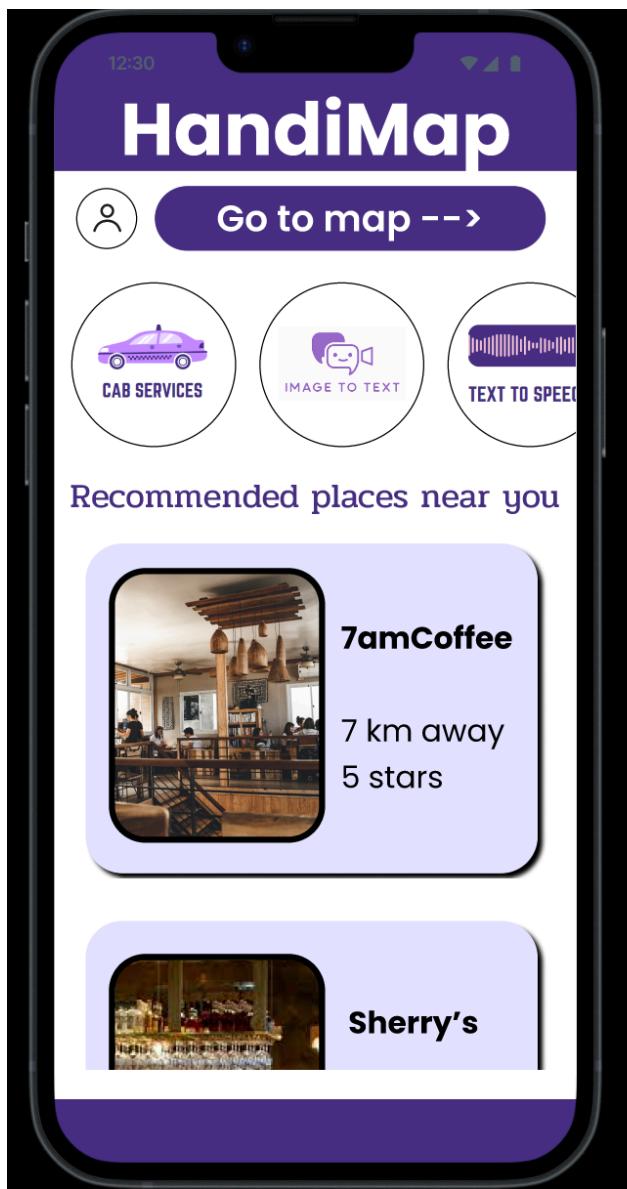
<https://www.figma.com/file/OB6IVhIZF07okVOFTejSPN/Lo-fi-final?type=design&node-id=0-1&mode=design&t=FPnMIK1vmBNMAy9z-0>

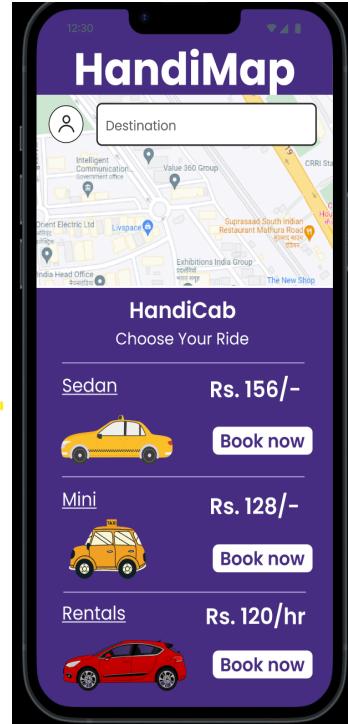
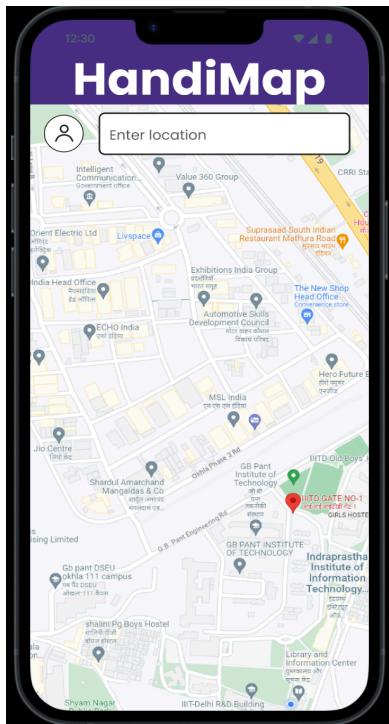
## Working Hi-Fi Prototype along with User Evaluation

Working Hi-Fi Prototype Figma Link -

<https://www.figma.com/file/GkHRRb1LRalBp5Xncsc1sv/HandiMap--high-fidelity-prototype?type=design&node-id=268-727&mode=design&t=qCgjSiKuLYBl8u3o-0>







User Evaluation Google Form Link - <https://forms.gle/So51ms1gCe7z7yrr8>

Past Logos:





handimap



HandiMap

## Contributions

Refined Gathering:

- 1) Mindmap - By **Aman**
- 2) Use- Case Diagram - By **Aakash**

Refined Personas & Scenarios:

- 1) Personas - By **Abhinav**
- 2) Scenarios - By **Akshat**

Refined Problem Understanding: By **Aditya**

Refined Lo-Fi: By **Aman**

Mid-Fi Prototype : By **Abhinav**

Working Hi-Fi Prototype: By **Anouska** and **Akshat**

User Evaluation: By **Akshat** and **Anouska**

Compiling and Editing by: By **Akshat**