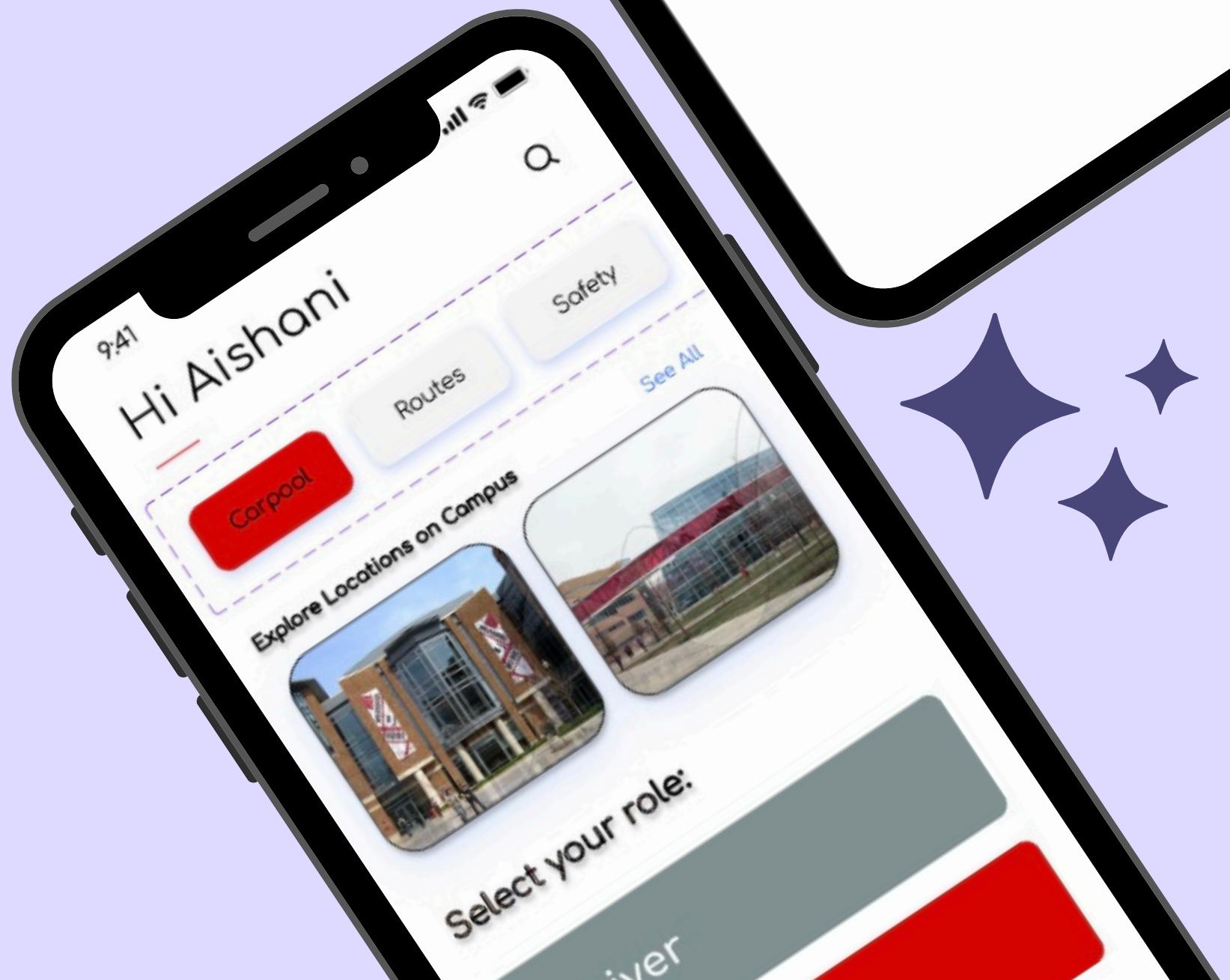


TEAM #70

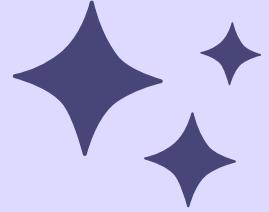
CARECLOUD

HACK OHIO 24

BUCKEYE MOBILITY +



MEET THE TEAM: CARECLOUD



Varsha Venkateshwaran

3rd Year CSE

UI/UX Specialist



Alana Gorukanti

2nd Year CSE

Full Stack Developer



Aishani Waghmare

2nd Year CSE

Front-End Engineer



Sai Pokuri

2nd Year CSE

Front-End Engineer



PROBLEM

“The average Ohio driver emits about **4.6 metric tons** of carbon dioxide annually.” - Ohio Department of Transportation

Navigating **complex** transportation systems—such as finding shuttles or optimal bus routes—can result in students spending **up to 1-2 hours daily** on route planning alone.

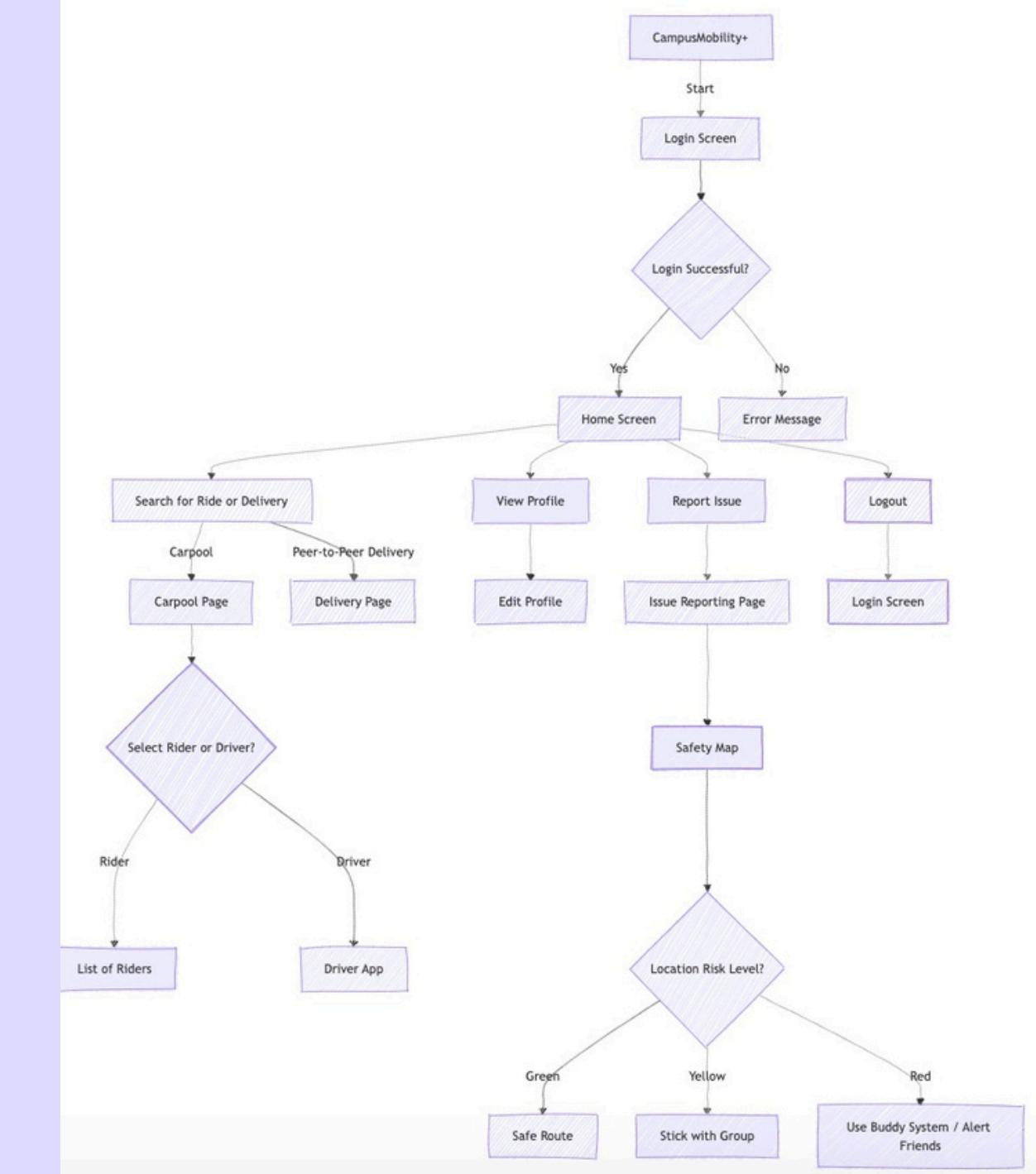
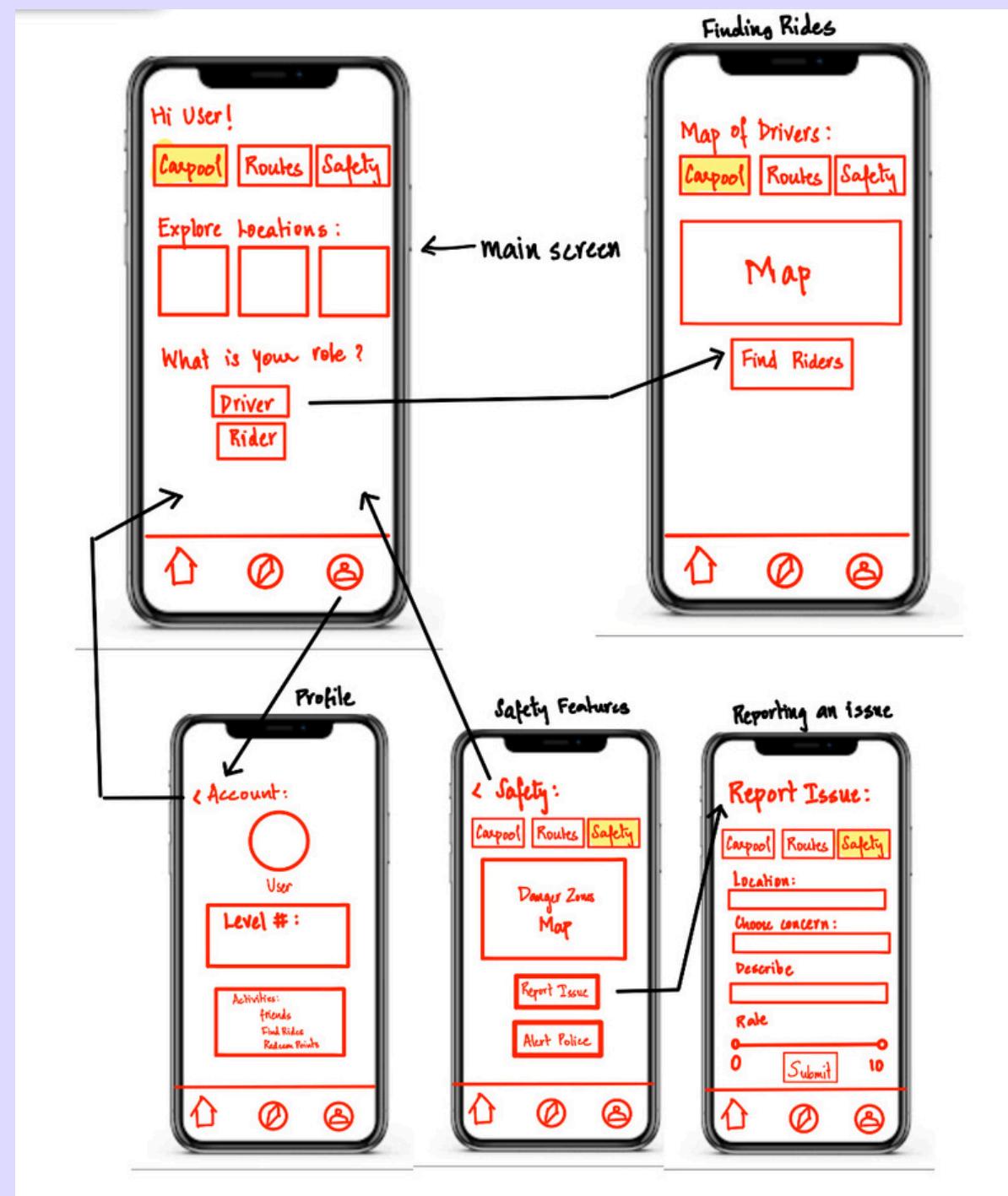
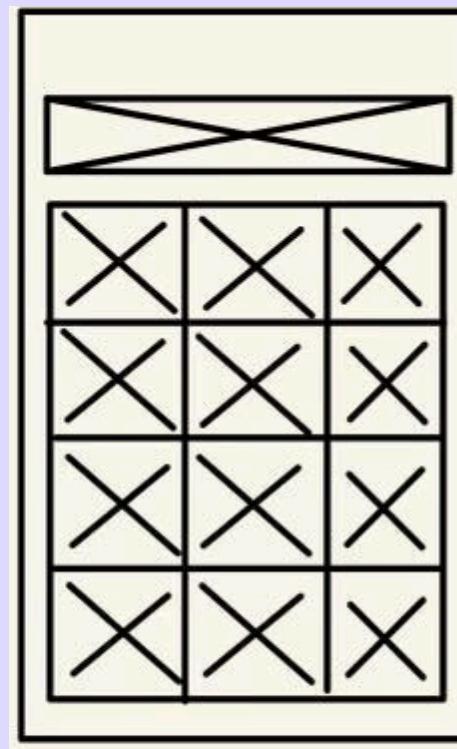
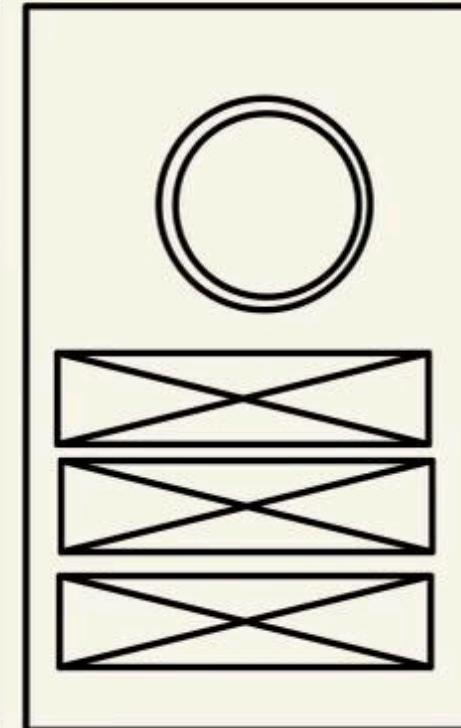
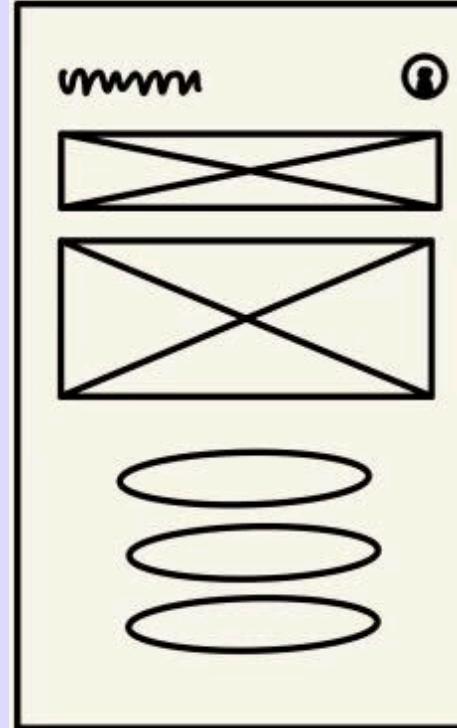
In 2023, there were 711 **crimes** reported across OSU's Columbus main campus, about a **99% increase** from 2022



SOLUTION

- 01** Ridesharing with students on campus
- 02** Safety Heat Maps using Urban Heat Map API
- 03** Efficient Routing with Commute Prediction AI

OUR APPROACH



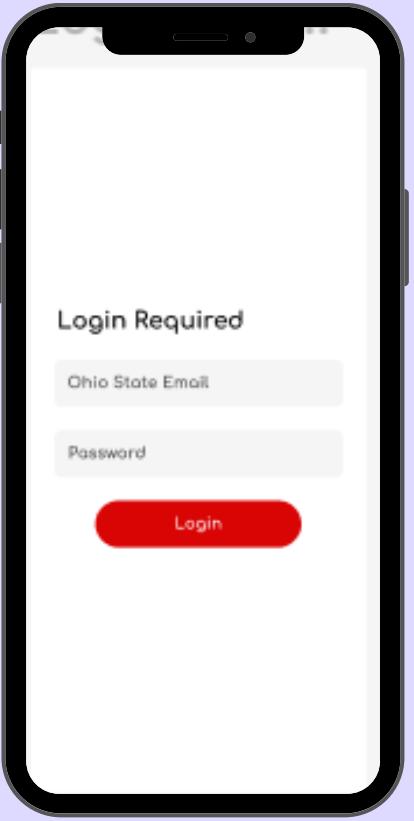
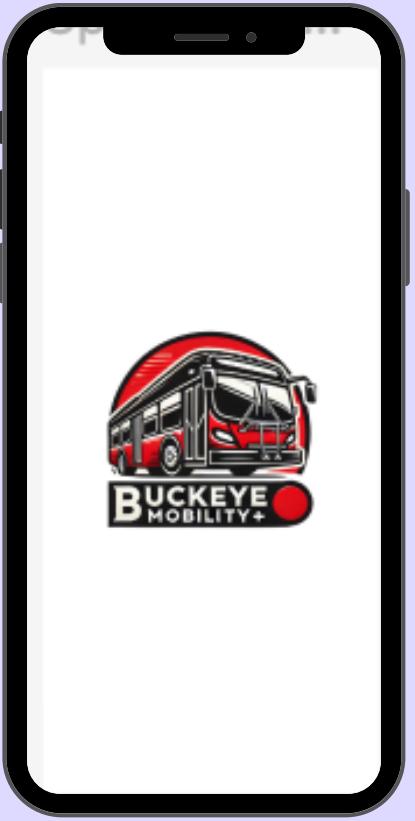
Wireframes

Sketches

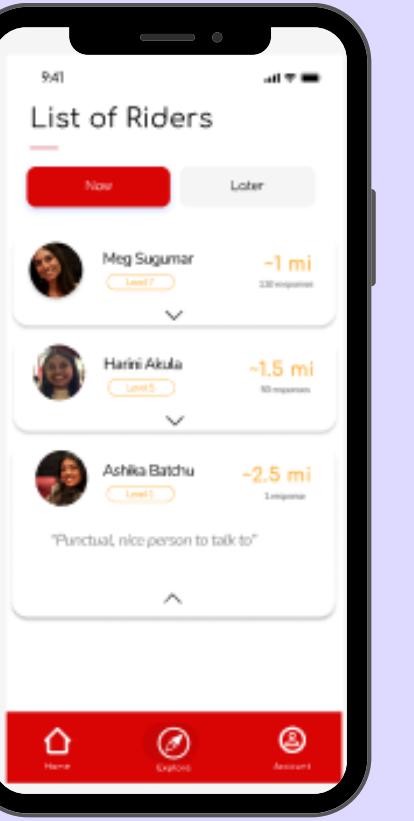
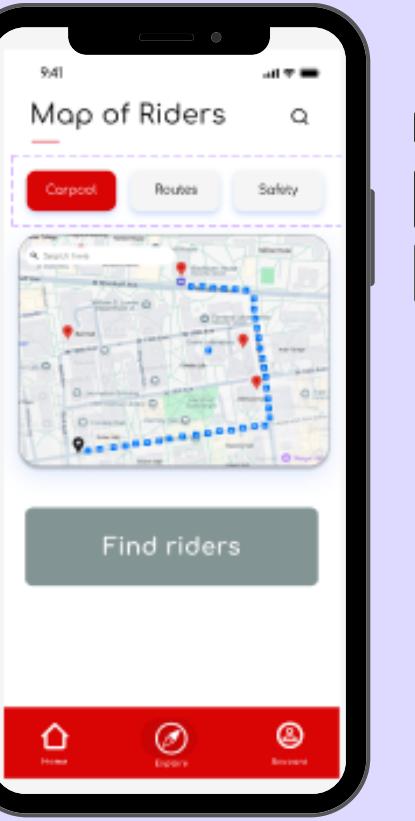
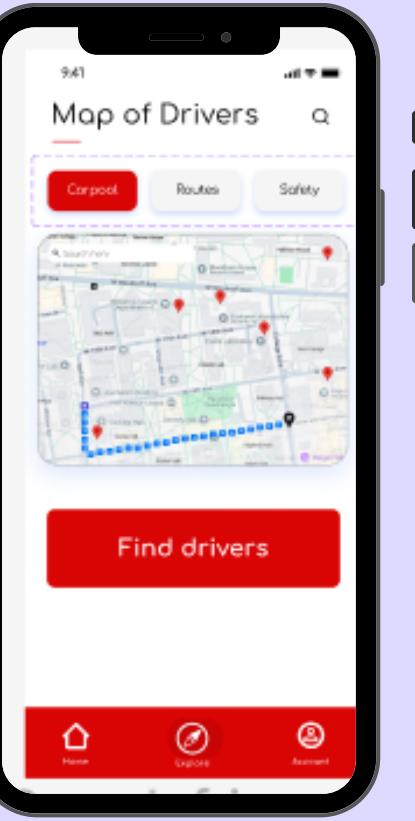
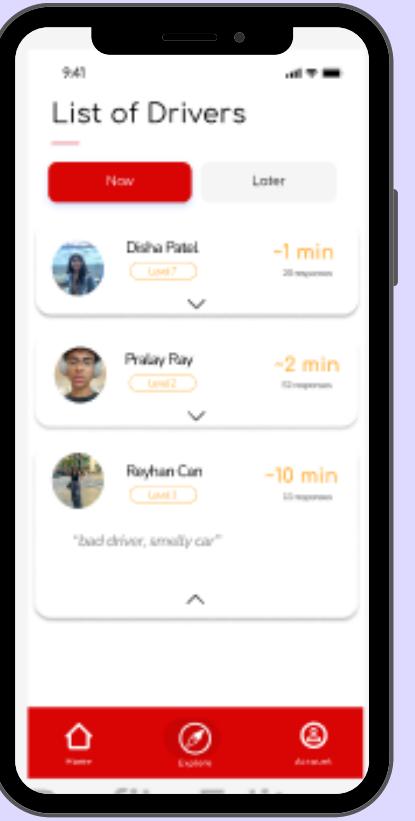
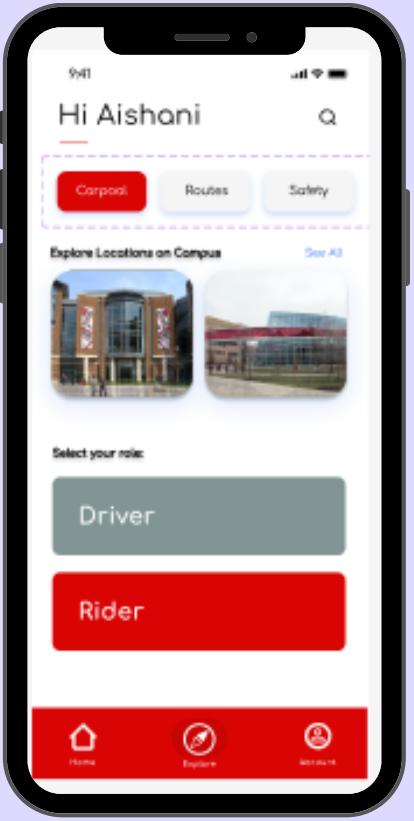
Architecture

OUR APPROACH: MOBILE APP

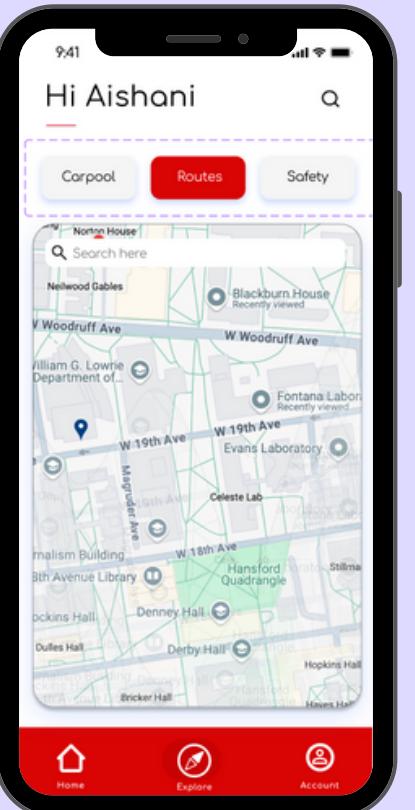
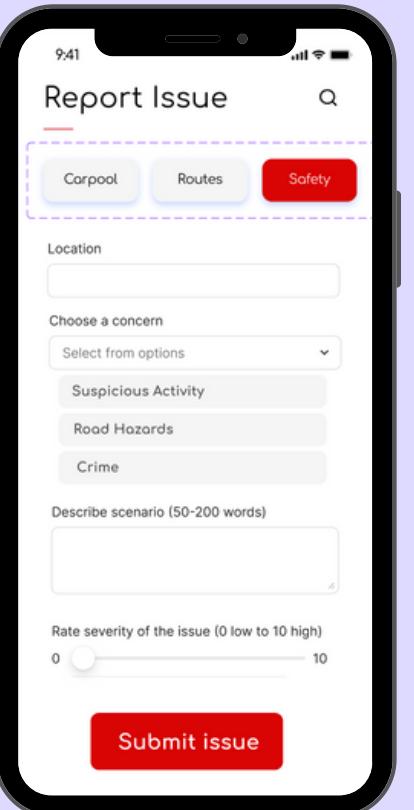
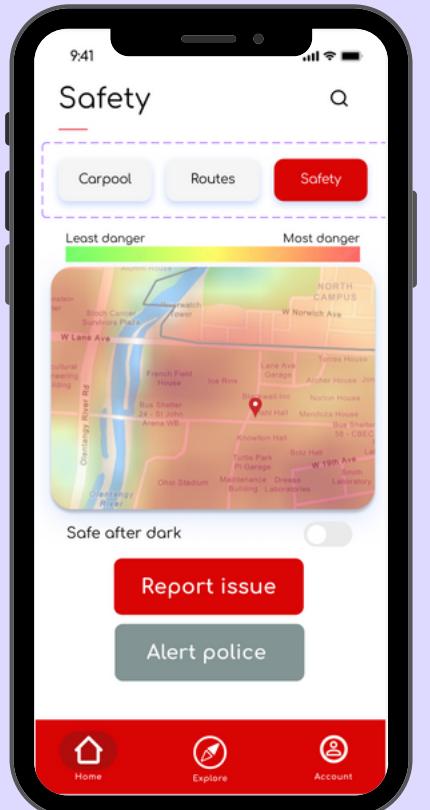
LANDING



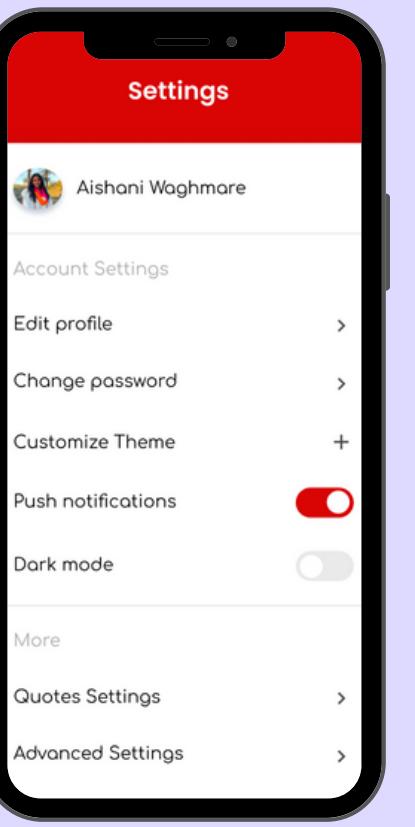
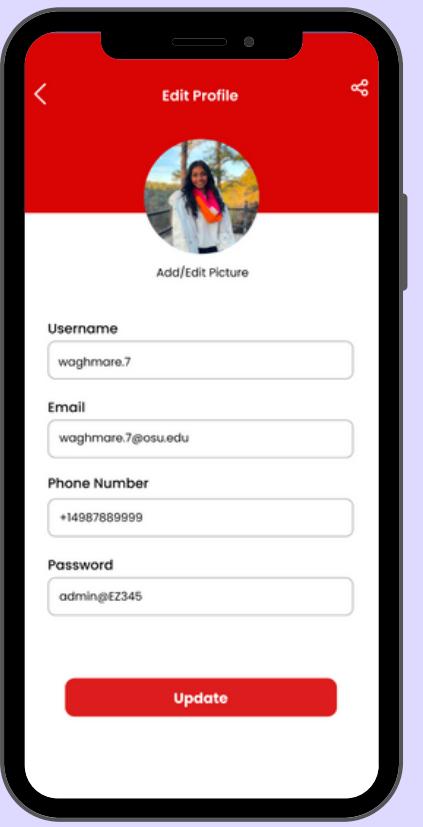
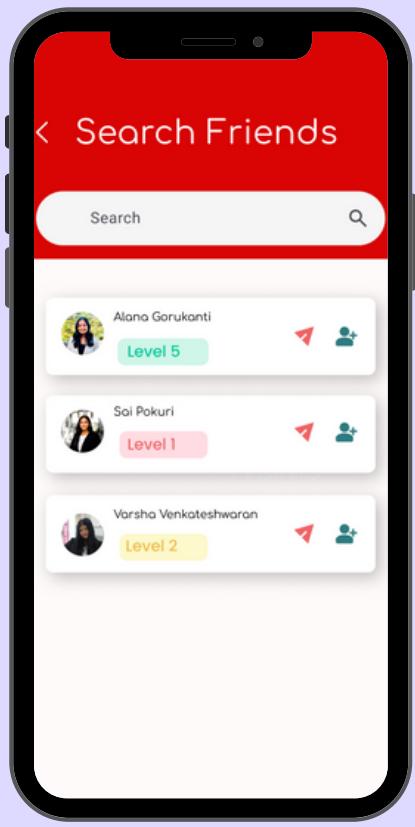
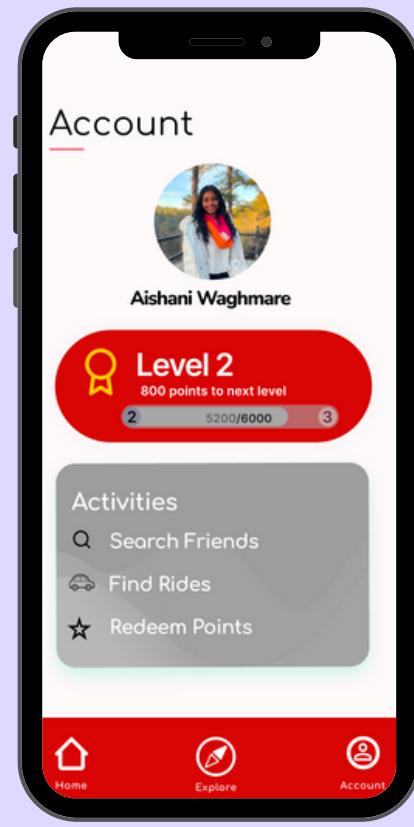
CARPOOL



SAFETY + ROUTES



ACCOUNT



CARPOOL

The image displays five screenshots of the CARPOOL mobile application, arranged horizontally, illustrating the user flow from driver selection to rider matching.

- Screenshot 1: Home Screen (Driver/Rider Selection)**

Hi Aishani

Carpool Routes Safety

Explore Locations on Campus

Select your role:

Driver Rider

Home Explore Report
- Screenshot 2: List of Drivers**

List of Drivers

Now Later

 - Disha Patel Level 7 ~1 min 20 responses
 - Pradyay Ray Level 2 ~2 min 10 responses
 - Royhan Can Level 1 ~10 min 10 responses

Find drivers

Home Explore Report
- Screenshot 3: Map of Drivers**

Map of Drivers

Carpool Routes Safety

A map showing the locations of drivers (red dots) and their estimated routes (blue lines) on a campus map.

Find drivers

Home Explore Report
- Screenshot 4: Map of Riders**

Map of Riders

Carpool Routes Safety

A map showing the locations of riders (red dots) and their estimated routes (blue lines) on a campus map.

Find riders

Home Explore Report
- Screenshot 5: List of Riders**

List of Riders

Now Later

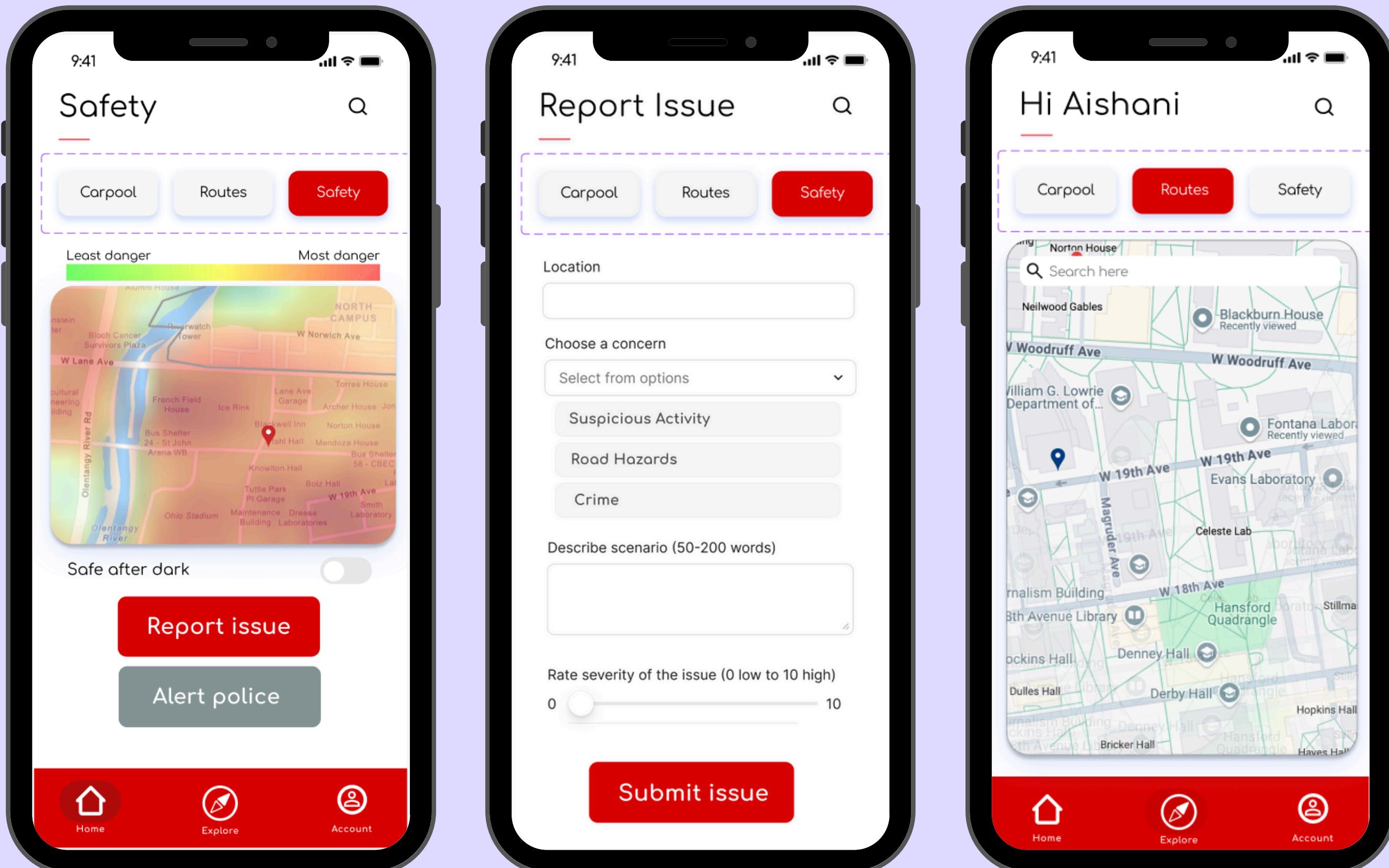
 - Meg Sugumar Level 7 ~1 mi 20 responses
 - Harini Akula Level 5 ~1.5 mi 10 responses
 - Ashika Batchu Level 1 ~2.5 mi 1 response

"Punctual, nice person to talk to!"

Find riders

Home Explore Report

SAFETY + ROUTES



ACCOUNT

The image displays four mobile phone screens illustrating various account features:

- Account Screen:** Shows a profile picture of Aishani Waghamare, her name, and a progress bar indicating she is at Level 2, 800 points away from Level 3. It also lists activities: Search Friends, Find Rides, and Redeem Points.
- Search Friends Screen:** Allows users to search for friends by entering a name or email. It shows results for Alana Gorukanti (Level 5), Sai Pokuri (Level 1), and Varsha Venkateshwaran (Level 2).
- Edit Profile Screen:** Allows users to edit their profile picture, username, email, phone number, and password. A red "Update" button is at the bottom.
- Settings Screen:** Shows account settings for Aishani Waghamare, including options to edit profile, change password, customize theme, enable push notifications (which is turned on), enable dark mode (which is turned off), and access more settings like quotes and advanced options.

01**Environmental Impact:**

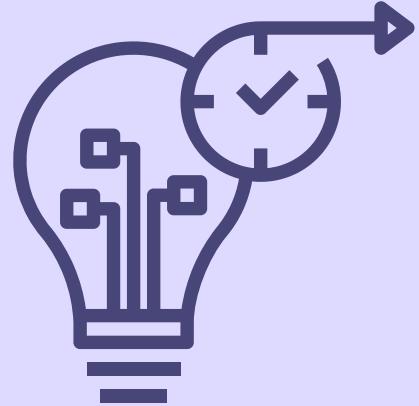
- Reduce individual emissions contributing to a more sustainable campus environment

02**Safety Impact:**

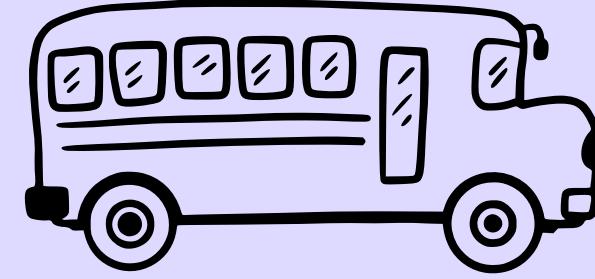
- Avoid high-crime areas
- Create a safer commuting environment
- Personal safety measures can reduce the likelihood of victimization

03**Efficient Route Impact:**

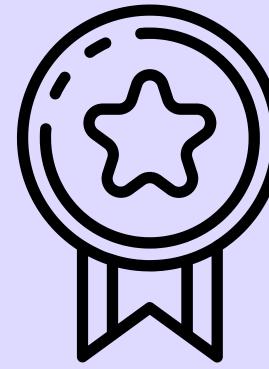
- Smart route recommendations
- Allowing students and staff to spend that time on academics, extracurricular activities, or relaxation



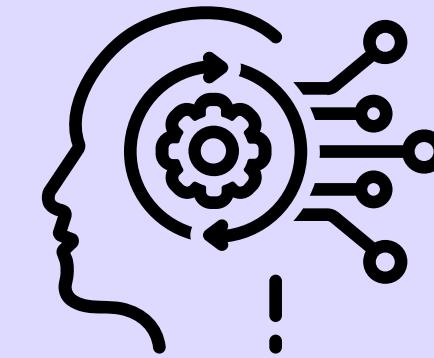
FUTURE IMPLEMENTATIONS



Integrate with Public
Transportation and OSU
Navigation Systems



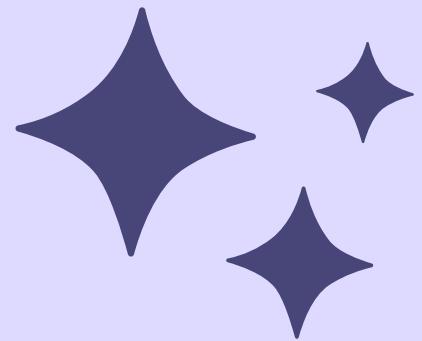
Incorporate Gamification
for User Incentives and
Rewards Program



Implement ML algorithms
to improve ride-matching
efficiency

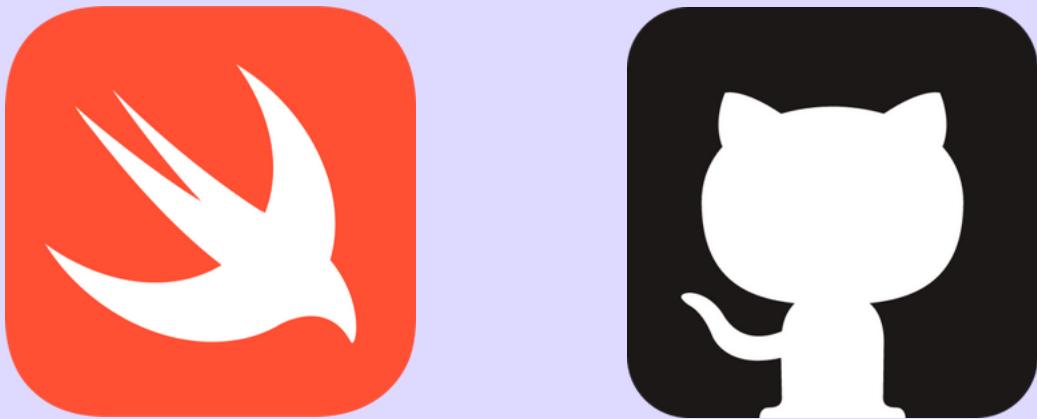
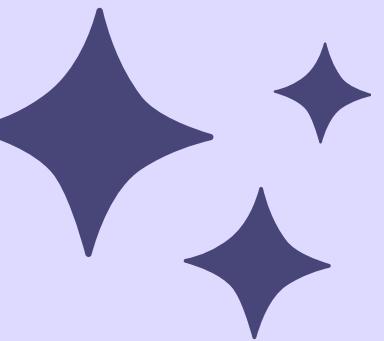


Expand to other
universities tailored to
their campus locations



TAKEAWAYS

What did we learn from
this hackathon?



01 Teamwork and
Problem Solving

02 Using XCode, Swift and
GitHub Collaboration

03 Design thinking and
iterative development

THANK YOU

Any questions?



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MOBILITY+**

