ULAB

UNIVERSITY OF LIBERAL ARTS BANGLADESH

Report
for
Mechanic App

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Introduction:

Overview of the project: Our app name is **Mechanic**. In our daily life, if something like : AC, car, TV, washing machine or any water line of the house is broken, we have to face a lot of difficulties. Finding the right mechanic at the right time becomes difficult. To solve this problem we thought of making our app Mechanic. Through this app, users can find a specific mechanic for their problem with their location.

Its purpose and goals: Through our app, many problems of daily life of common people will be solved. people don't find mechanics when they need them. As a result they faced many difficulties. This app will remove these difficulties for them. People can easily find mechanics from this app. There will be 3 panels. Admin panel, Mechanic and user. This app will make our daily life easier.

Functional requirements:

Both user Mechanic and customer will be able to create accounts, log in, and manage their profiles. Customers will be able to submit service requests detailing their issues. Customers will be able to search for mechanics based on location, availability, services offered, ratings, and reviews. Also they can book appointments with mechanics and re-schedule service appointments. Customers can communicate with mechanics through in-app messaging or calls. Customers will be able to rate and review mechanics based on their experience.

Non-functional requirements:

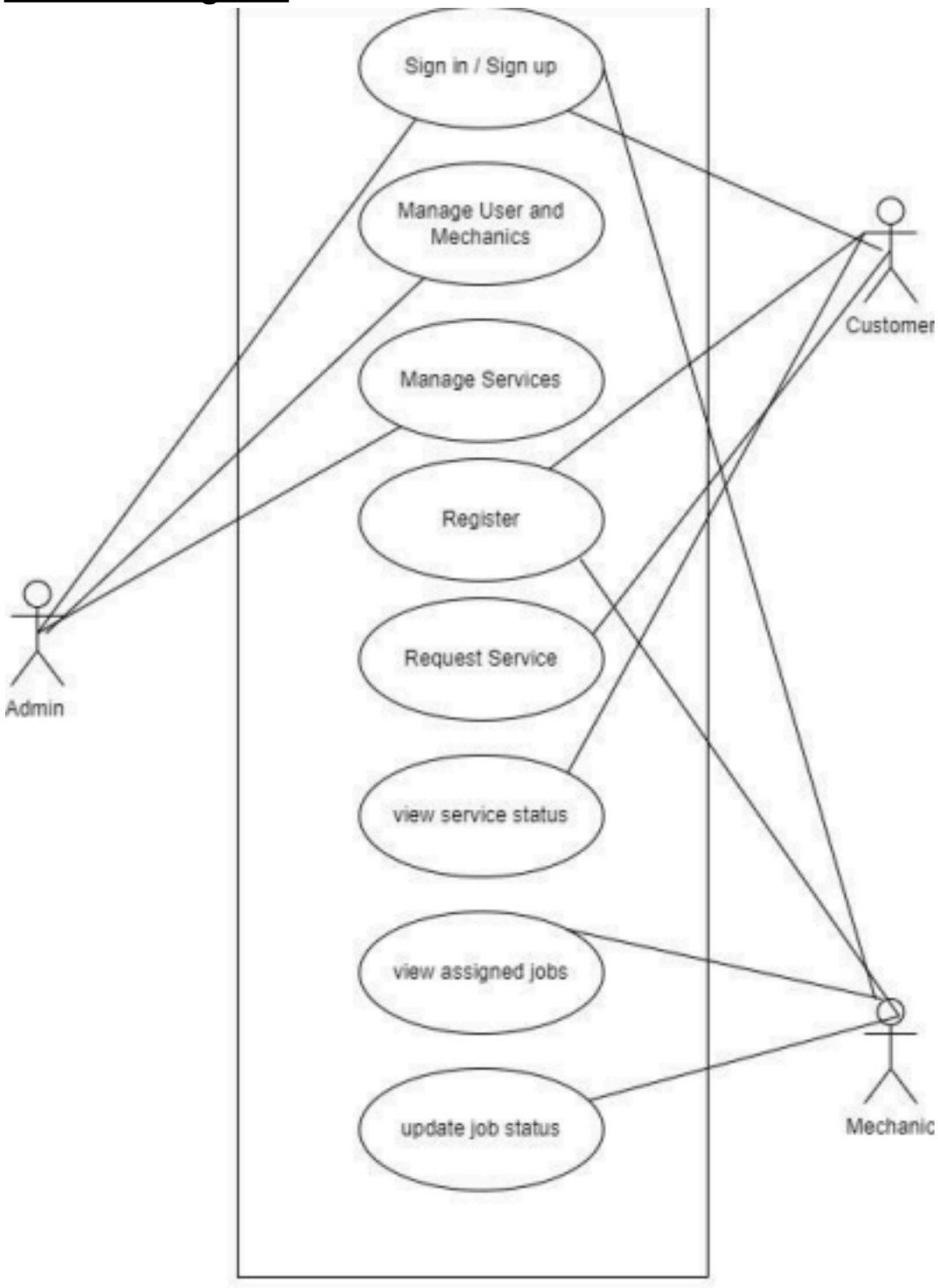
The app will load quickly and respond promptly to user interactions, even during peak usage times. The app will be able to handle a growing number of users and service requests without significant degradation in performance. The app will be available and reliable, with minimal downtime or service interruptions. The app will implement robust security measures to protect user data, including encryption of sensitive information and secure authentication mechanisms. It will be easy to maintain and update, with well-documented code and modular architecture. It will collect and analyze performance metrics, such as response times and error rates, to continuously improve its performance.

User story:

When a user opens the Mechanic app on their smartphone. They are presented with a search bar where they can enter their location or use GPS to detect it automatically. they enter their location and tap the search button. The app displays a list of nearby mechanics along with their ratings and reviews. They browse through the list and select

a mechanic with high ratings and positive reviews. After selecting a mechanic, customers see their contact details and a button to request service. They tap the button to request a service appointment. The app prompts them to enter details about their issue that they are experiencing. Customers provide the necessary information and submit the request. The mechanic receives customers' requests and confirms the appointment through the app. Customers also can give feedback, review and rating about the service through the app.

Use case diagram:



Client-Side (Mobile App):
- Developed using Flutter for cross-platform compatibility (iOS and Android). - Utilizes Flutter widgets for the user interface, following the design we've planned.

User Authentication:
- Integrates Firebase Authentication for secure user registration and login.

Database:
- Firebase Firestore or Realtime Database stores user profiles, service provider information, service requests, and other relevant data.

User Interface:
- Adheres to the UI/UX design we've created, with responsive layouts for different devices.

UX/UI Design guidelines:

Homepage:
- Feature a search bar prominently for users to search for services

- Display categories or popular services for quick access.

User Authentication:
- Create clean and straightforward screens for user registration and login.
- Include options for both customers and service providers to register.

Customer Dashboard:
- Show recent searches and suggested services.
- Include a section for ongoing or bookmarked services.

Admin Interface:
- Design an interface for admin to review service provider registrations, manage user data, and monitor system activity.

Profile Pages:
- Both customers and service providers should have editable profile pages with relevant details.

Booking/Request Flow:
- Design an intuitive process for customers to request services and for service providers to respond.

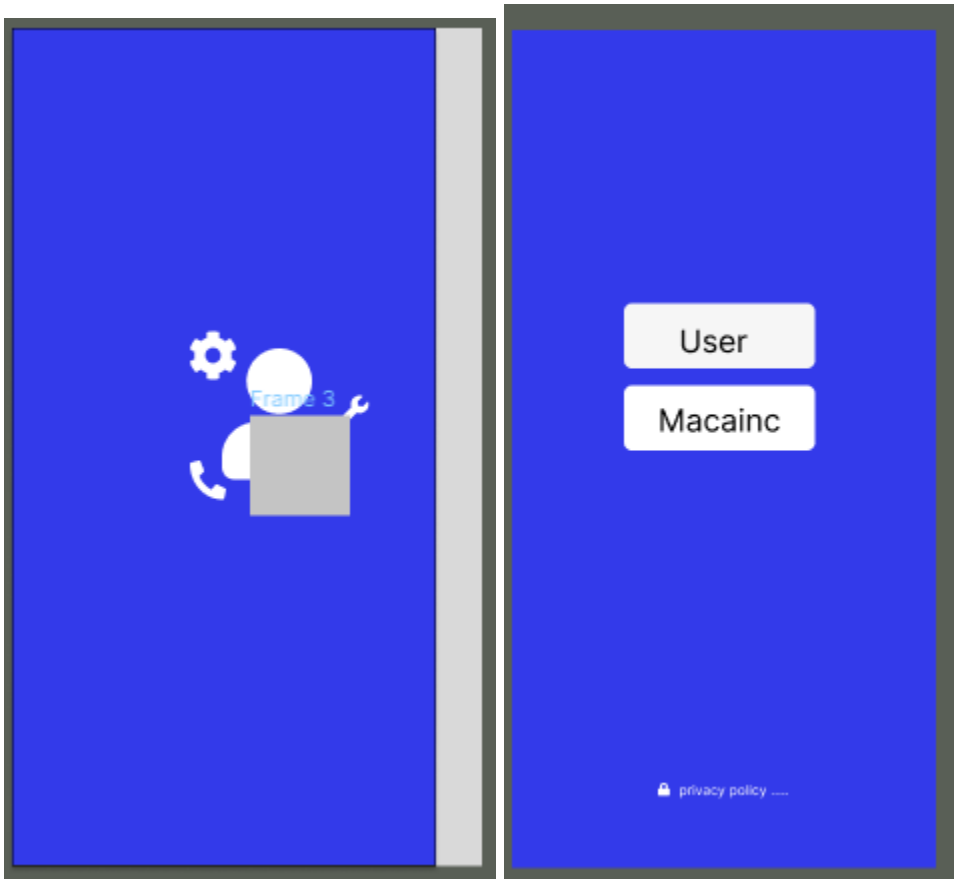
Ratings:

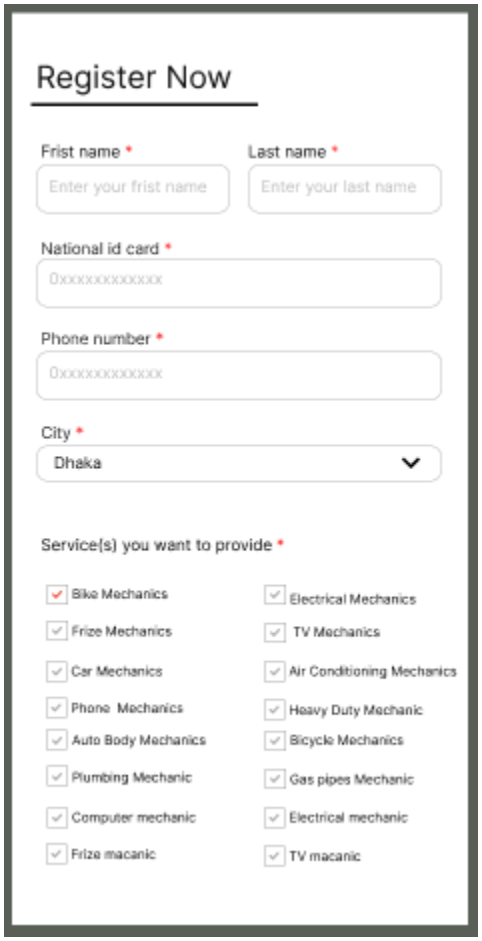
- Include a system for users to leave feedback and ratings for service providers.

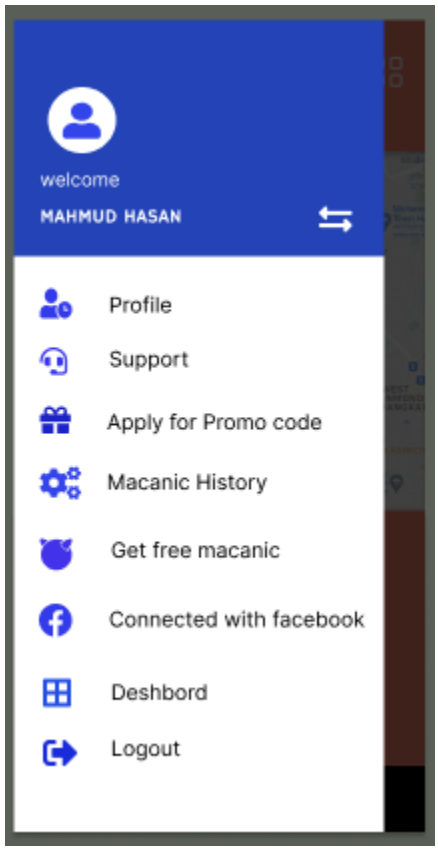
Settings:

- Create a settings page for users to manage account preferences, notifications, and privacy setting

Figma design of the app:




Register Now
Frist name *
Enter your frist name
Last name *
Enter your last name
National id card *
0xxxxxxxxxxx
Phone number *
0xxxxxxxxxxx
City *
Dhaka
Service(s) you want to provide *
Bike Mechanics
Electrical Mechanics
Frize Mechanics
TV Mechanics
Car Mechanics
Air Conditioning Mechanics
Phone Mechanics
Heavy Duty Mechanic
Auto Body Mechanics
Bicycle Mechanics
Plumbing Mechanic
Gas pipes Mechanic
Computer mechanic
Electrical mechanic
Frize macanic
TV macanic


welcome
MAHMUD HASAN
Profile
Support
Apply for Promo code
Macanic History
Get free macanic
Connected with facebook
Deshbord
Logout

MR MACANIC List
Car
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Select your Location
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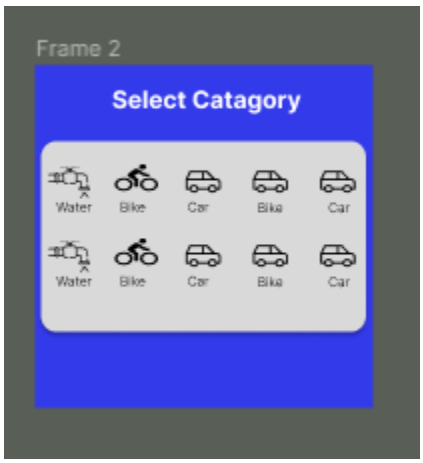
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Car
Bike
Car
Water
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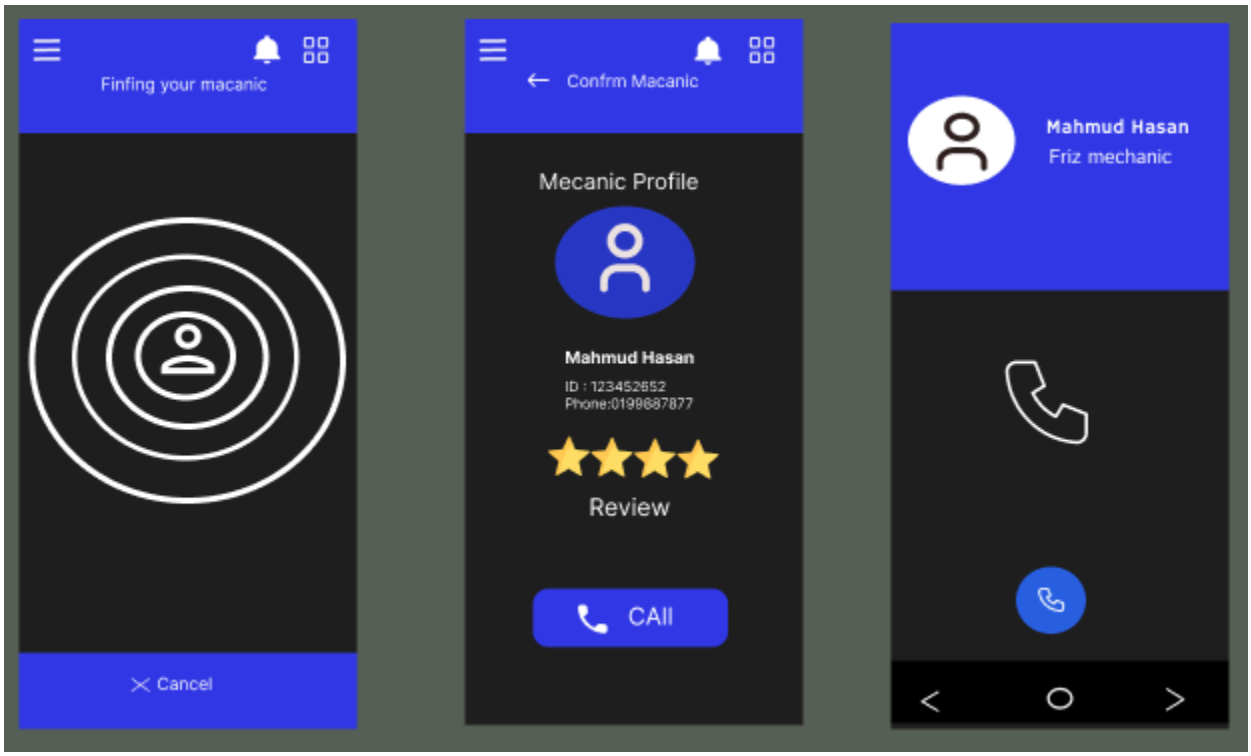
Car


Finfing your macanic
Cancel
Confrm Macanic
Mecanic Profile
Mahmud Hasan
ID : 123452652
Phone:0199887877
Review
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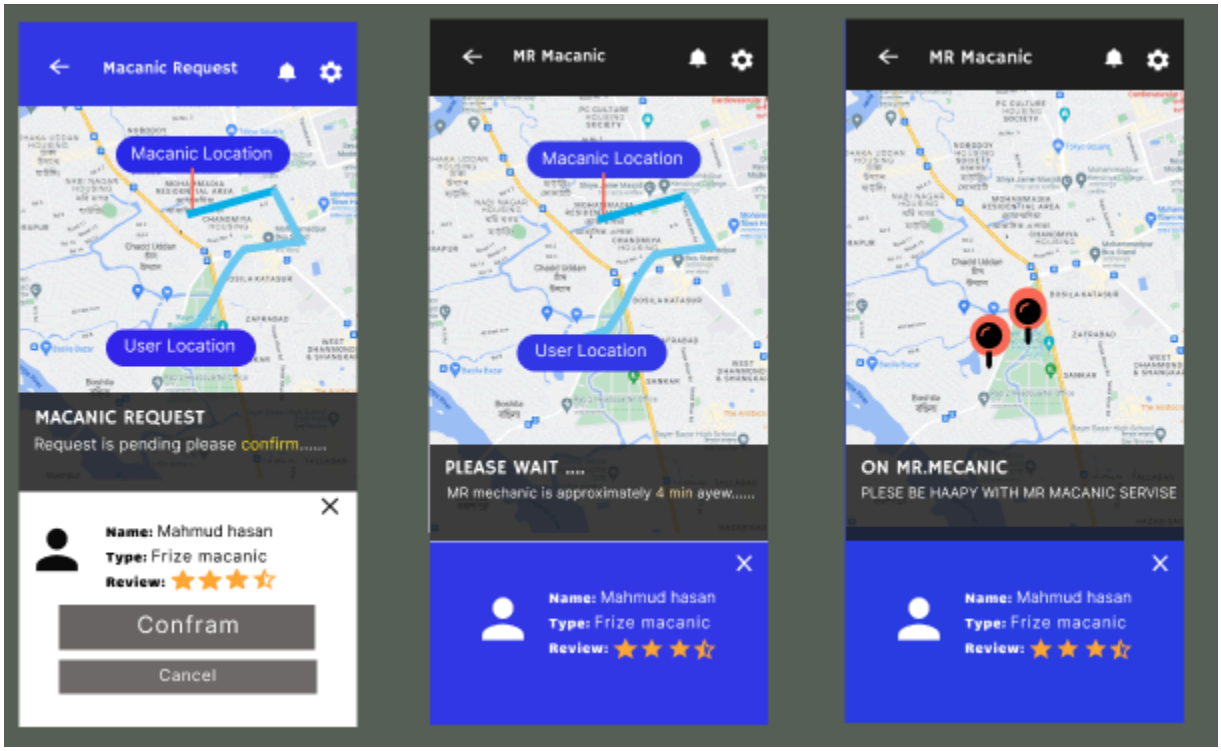
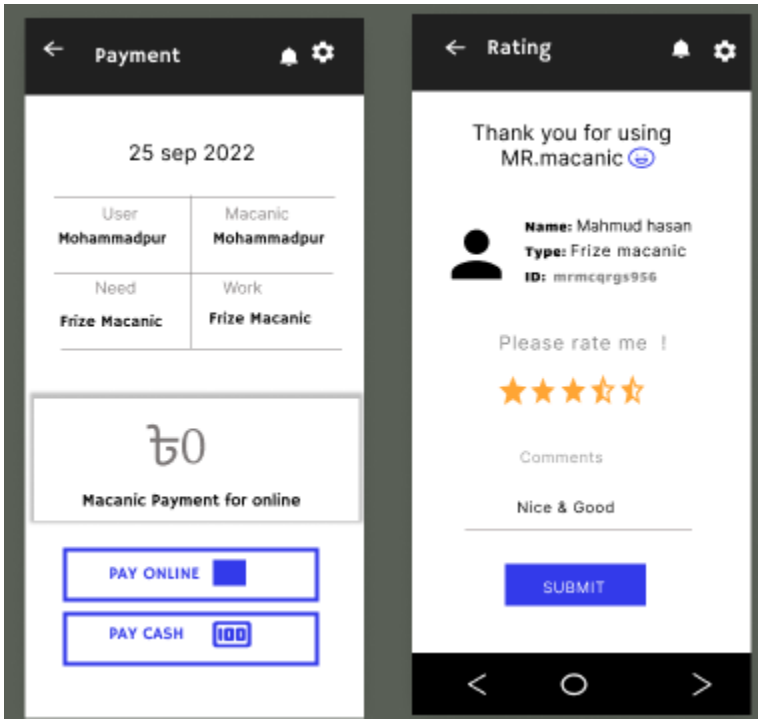
Mahmud Hasan
Friz mechanic


Macanic Request
Macanic Location
User Location
MACANIC REQUEST
Request is pending please confirm.....
Name: Mahmud hasan
Type: Frize macanic
Review:
Confram
Cancel
MR Macanic
Macanic Location
User Location
PLEASE WAIT ....
MR mechanic is approximately 4 min ayew.....
Name: Mahmud hasan
Type: Frize macanic
Review:
MR Macanic
ON MR.MECANIC
PLESE BE HAAPY WITH MR MACANIC SERVISE
Name: Mahmud hasan
Type: Frize macanic
Review:


Payment
25 sep 2022
User
Mohammadpur
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Need
Frize Macanic
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Frize Macanic
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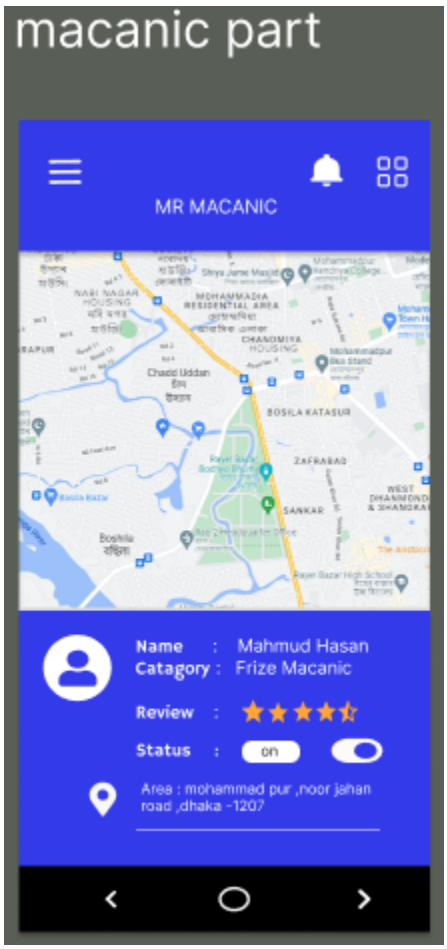
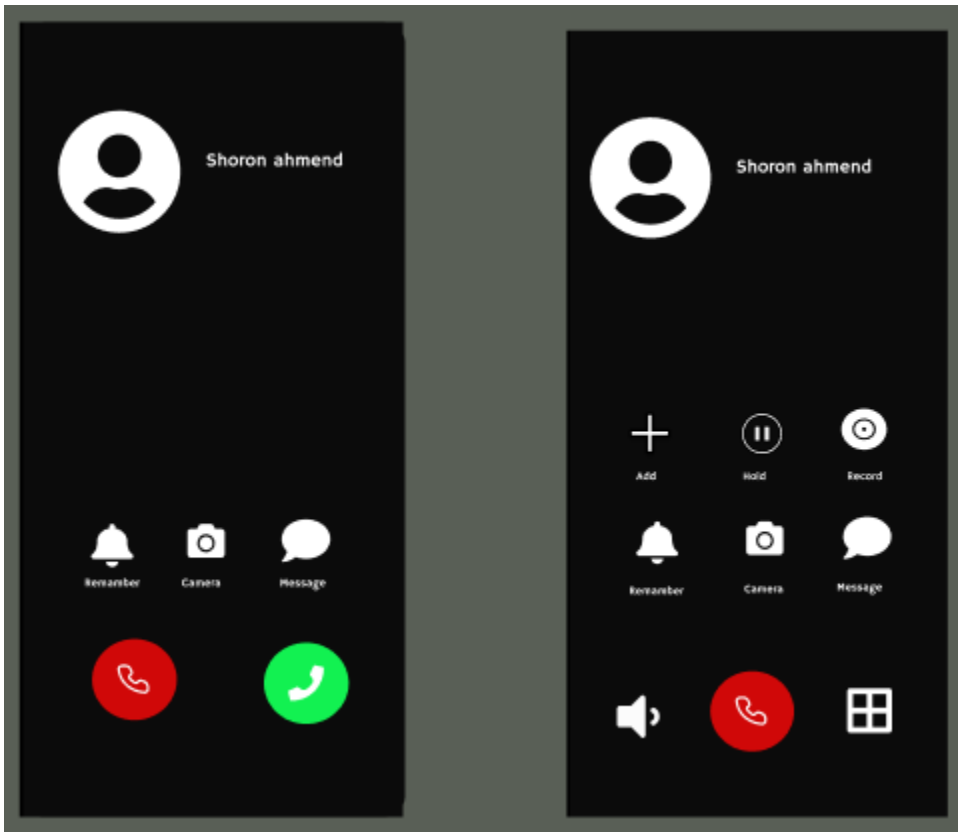
Macanic Payment for online
PAY ONLINE
PAY CASH
Rating
Thank you for using MR.macanic
Name: Mahmud hasan
Type: Frize macanic
ID: mrmcqrgs956
Please rate me !
Comments
Nice & Good
SUBMIT


macanic part
MR MACANIC
Name : Mahmud Hasan
Catagory : Frize Macanic
Review :
Status : on
Area : mohammad pur ,noor jahan road ,dhaka -1207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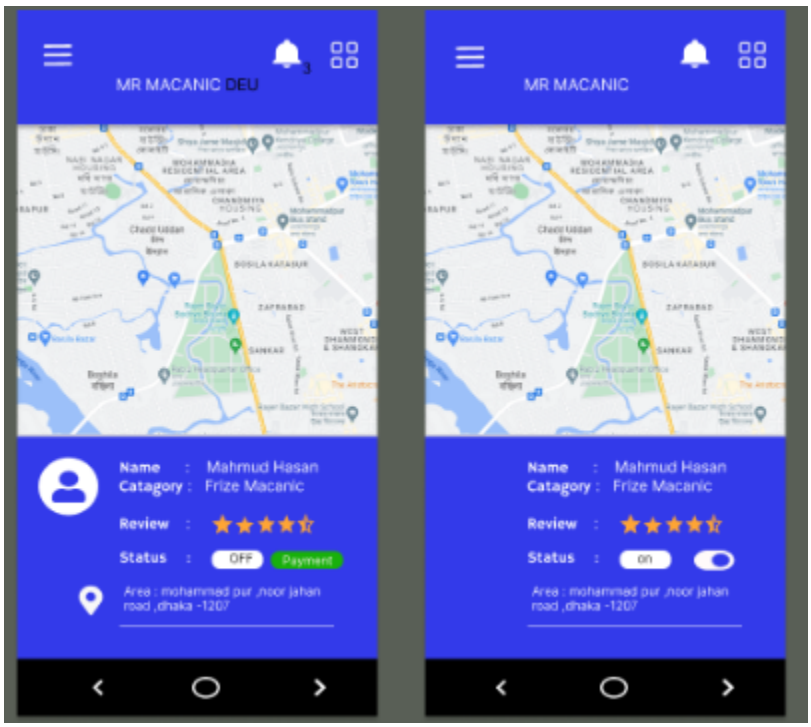
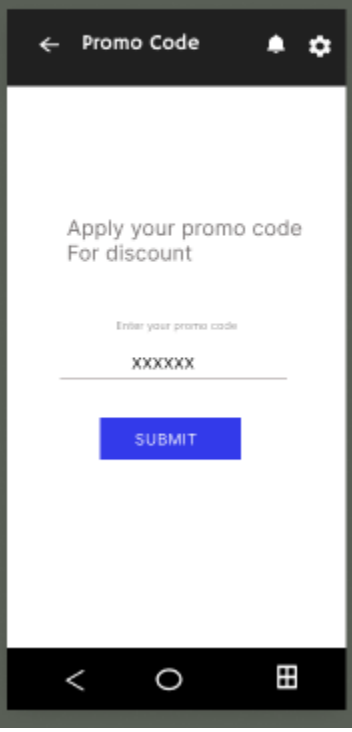
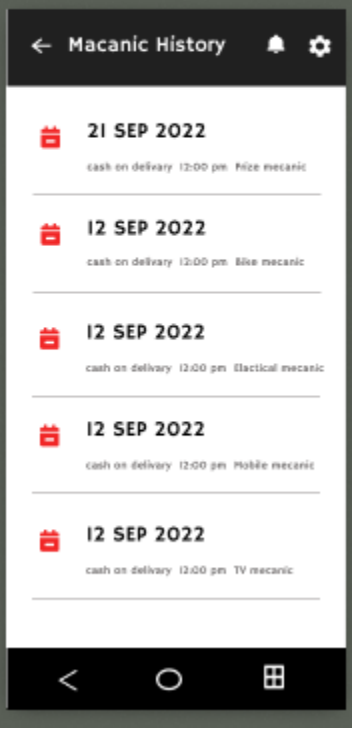

MR MACANIC DEU
Name : Mahmud Hasan
Catagory : Frize Macanic
Review :
Status : OFF Payment
Area : mohammad pur ,noor jahan road ,dhaka -1207
MR MACANIC
Name : Mahmud Hasan
Catagory : Frize Macanic
Review :
Status : on
Area : mohammad pur ,noor jahan road ,dhaka -1207

other page


Promo Code
Apply your promo code
For discount
Enter your promo code
XXXXXX
SUBMIT


Macanic History
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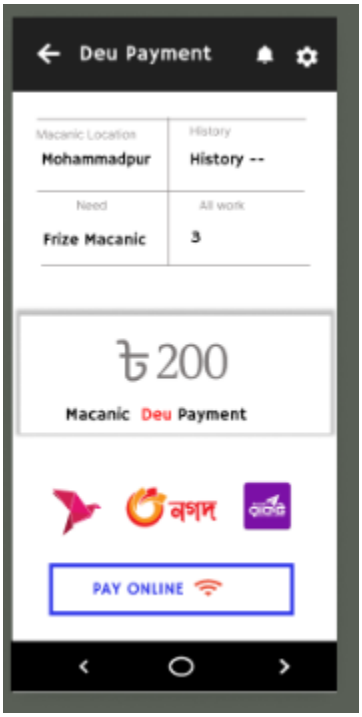
cash on delivary 12:00 pm Frize mecanic
12 SEP 2022
cash on delivary 12:00 pm Bike mecanic
12 SEP 2022
cash on delivary 12:00 pm Electical mecanic
12 SEP 2022
cash on delivary 12:00 pm Mobile mecanic
12 SEP 2022
cash on delivary 12:00 pm TV mecanic


Deu Payment
Macanic Location
Mohammadpur
History
History --
Need
Frize Macanic
All work
3
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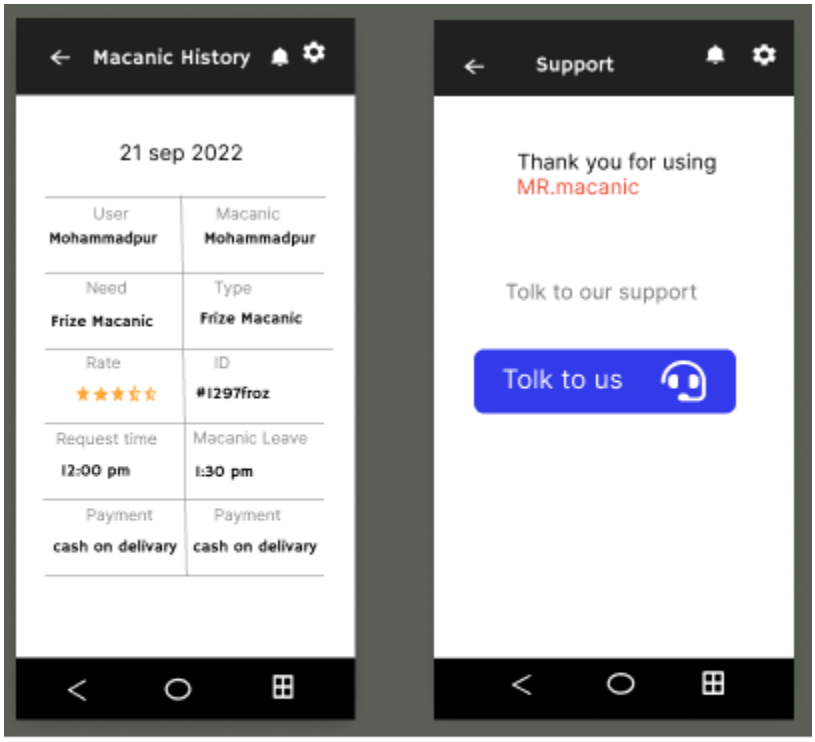
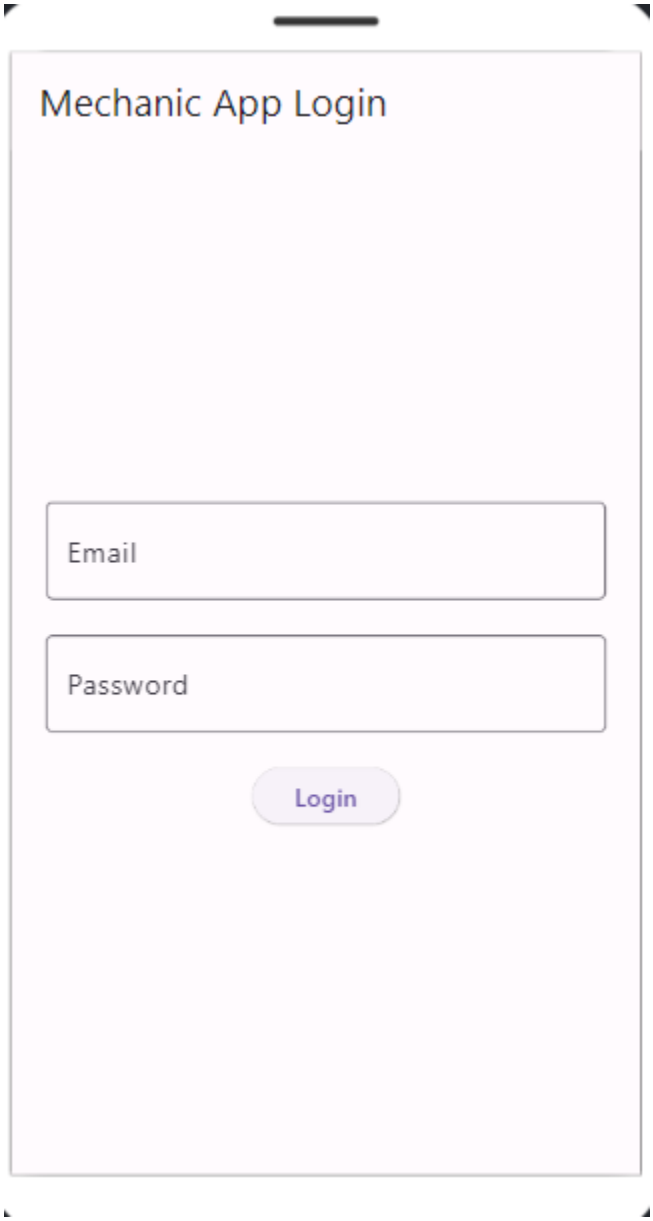
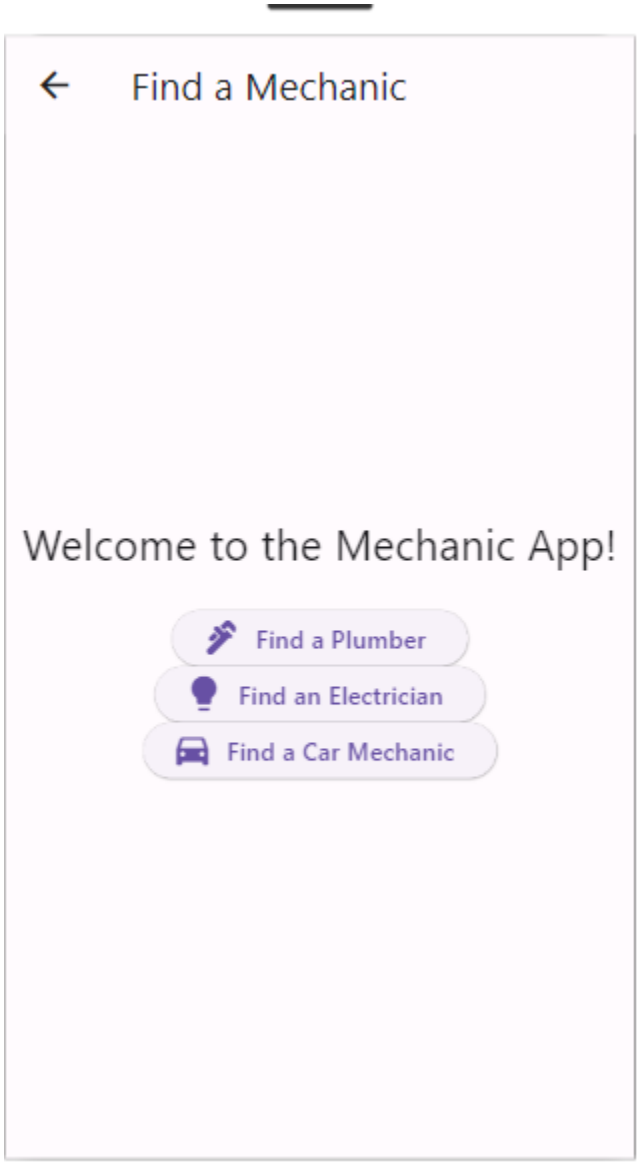
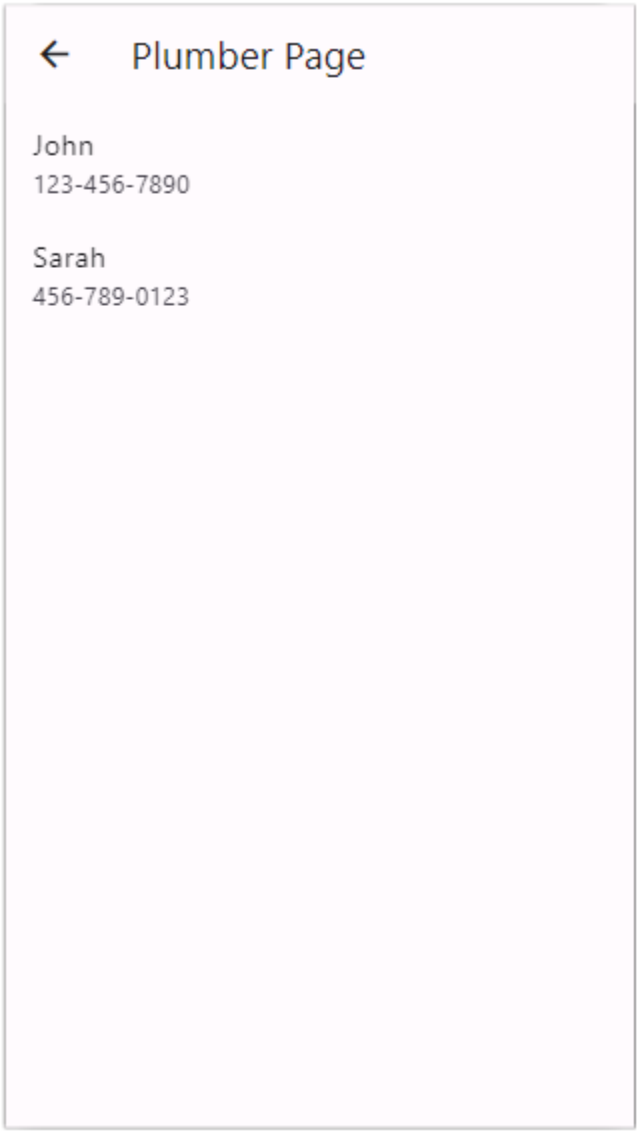
Macanic Deu Payment
PAY ONLINE



Screenshots of the output of the app:


Mechanic App Login
Email
Password
Login


Find a Mechanic
Welcome to the Mechanic App!
Find a Plumber
Find an Electrician
Find a Car Mechanic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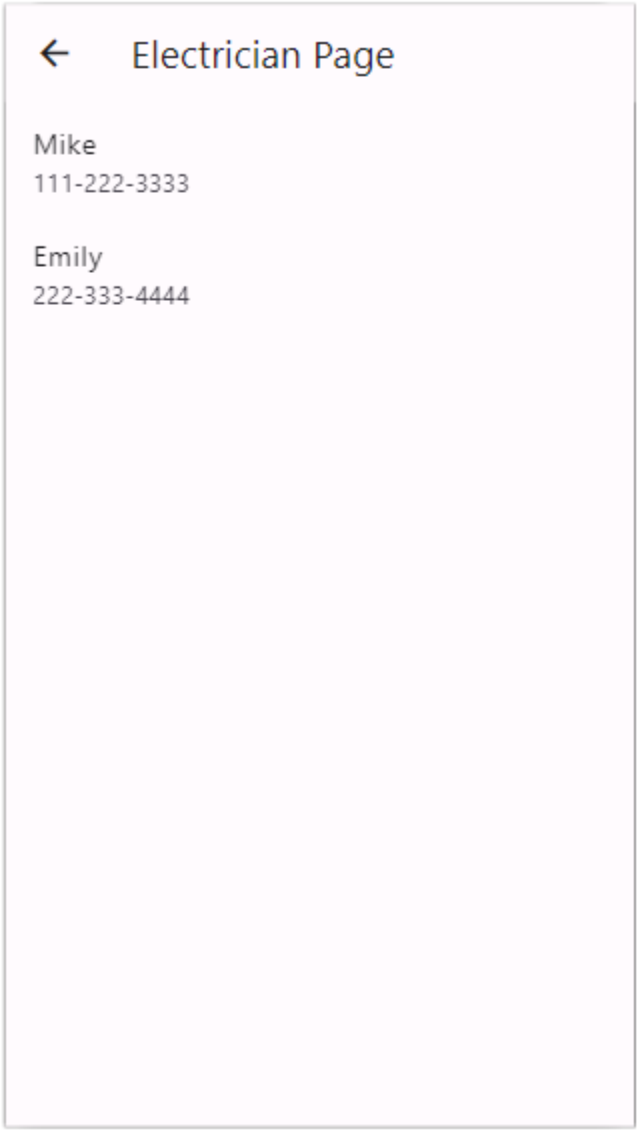
Sarah
456-789-0123


Electrician Page
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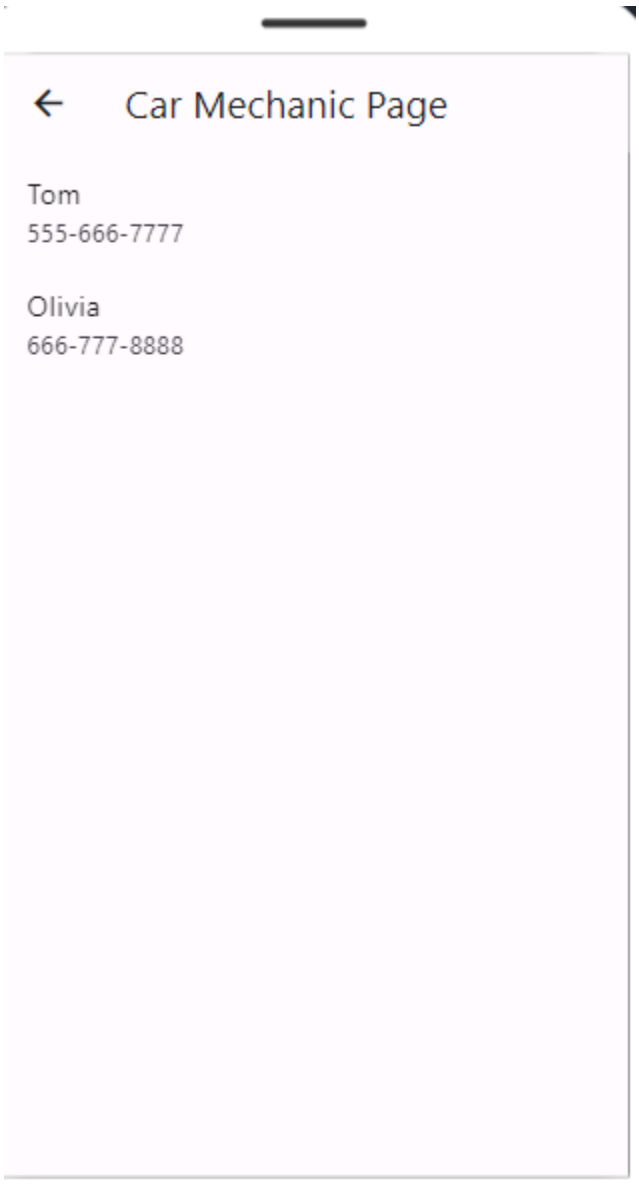
Emily
222-333-4444


Car Mechanic Page
Tom
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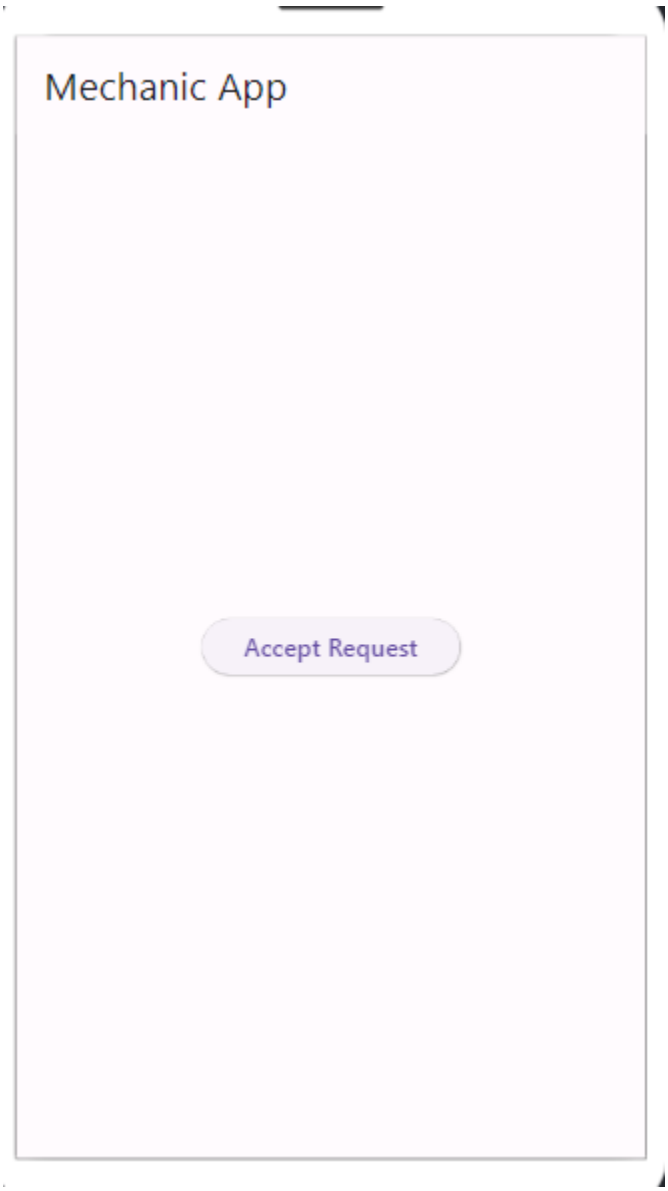
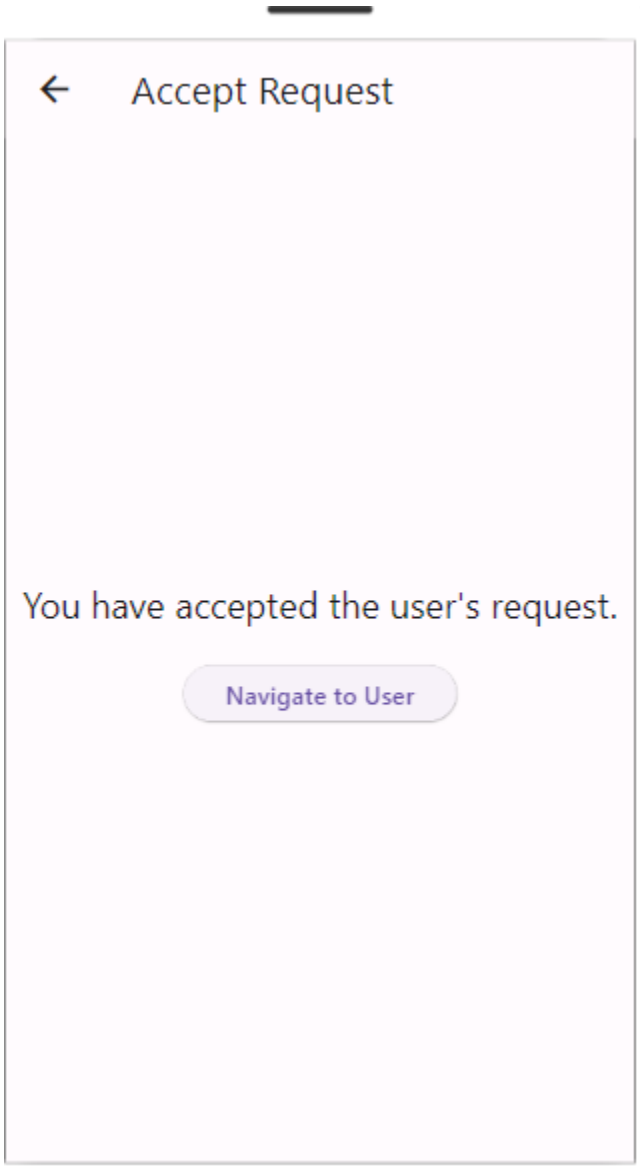
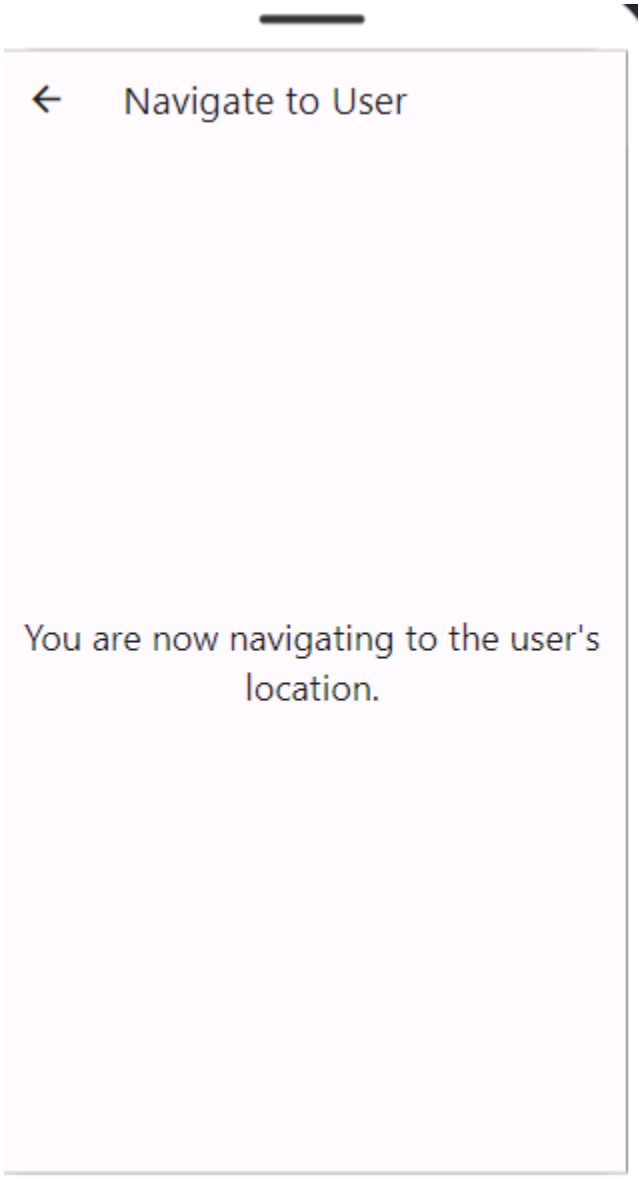
Olivia
666-777-8888


Mechanic App
Accept Request


Accept Request
You have accepted the user's request.
Navigate to User


Navigate to User
You are now navigating to the user's location.