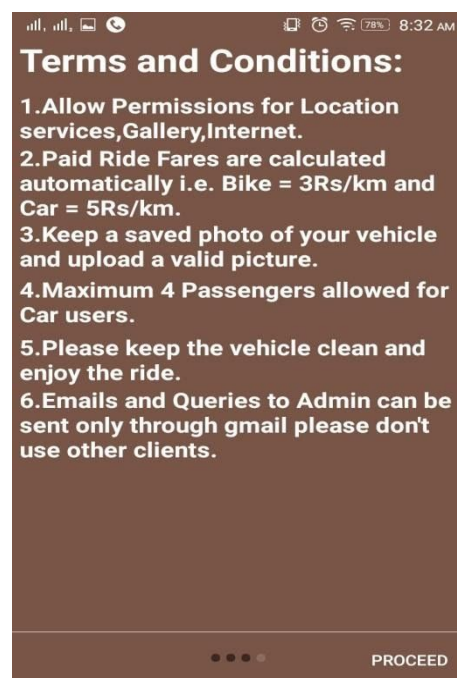


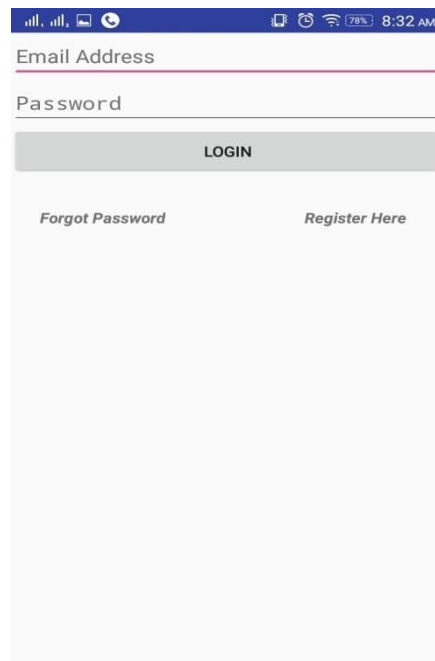
# IMPLEMENTATION

## SCREEN SHOTS

Once the application is launched there are 4 intro sliders which are shown. This also includes Terms and Conditions which the users are accepting.

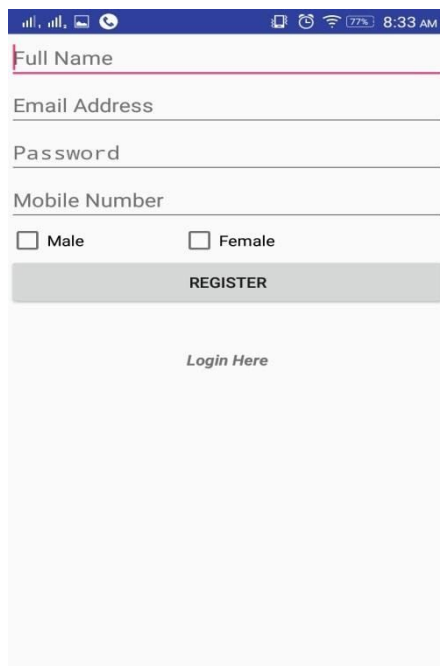


Login Page is the first page that is shown to the users after the intro slider. The users will have to first register by clicking on Register Here and only then login to the application.

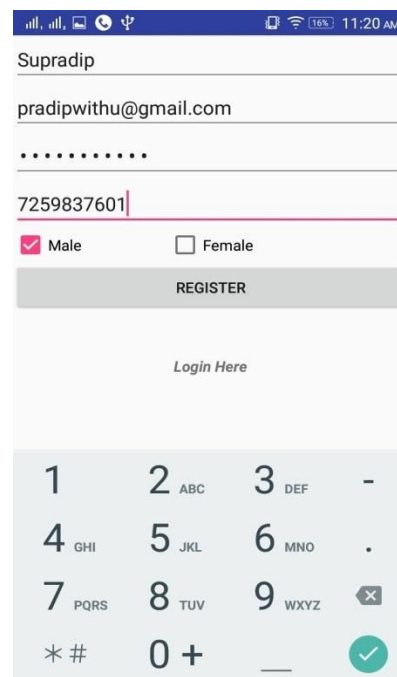


A screenshot of a mobile application's login page. The status bar at the top shows signal strength, battery level at 78%, and the time 8:32 AM. The page has a light gray background. It features two input fields: 'Email Address' and 'Password', both with pink borders. Below these fields is a gray button labeled 'LOGIN'. At the bottom, there are two links: 'Forgot Password' on the left and 'Register Here' on the right.

In register page the users are asked to input all their details and only valid inputs are accepted as messages will be displayed for invalid inputs.

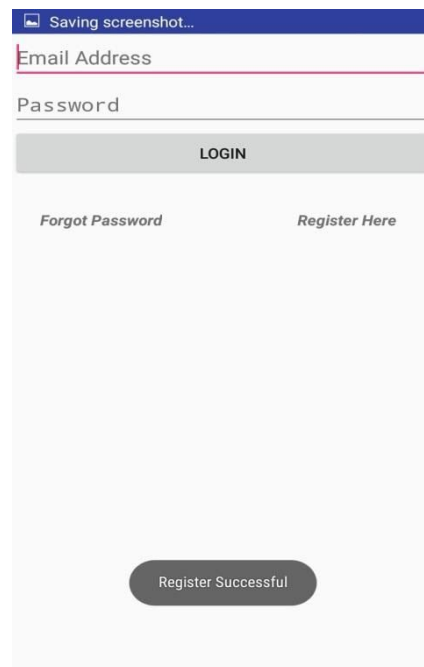


A screenshot of a mobile application's register page. The status bar at the top shows signal strength, battery level at 77%, and the time 8:33 AM. The page has a light gray background. It features four input fields: 'Full Name', 'Email Address', 'Password', and 'Mobile Number', all with pink borders. Below the 'Mobile Number' field are two checkboxes: 'Male' and 'Female'. Below these is a gray button labeled 'REGISTER'. At the bottom, there is a link labeled 'Login Here'.



A screenshot of a mobile application's register page, showing the form filled out. The status bar at the top shows signal strength, battery level at 78%, and the time 11:20 AM. The page has a light gray background. It features four input fields: 'Full Name' (filled with 'Supradip'), 'Email Address' (filled with 'pradipwithu@gmail.com'), 'Password' (filled with dots), and 'Mobile Number' (filled with '7259837601'). Below the 'Mobile Number' field are two checkboxes: 'Male' (checked) and 'Female'. Below these is a gray button labeled 'REGISTER'. At the bottom, there is a link labeled 'Login Here'. A numeric keypad is visible at the bottom of the screen, with a green checkmark button on the right.

On successful registration

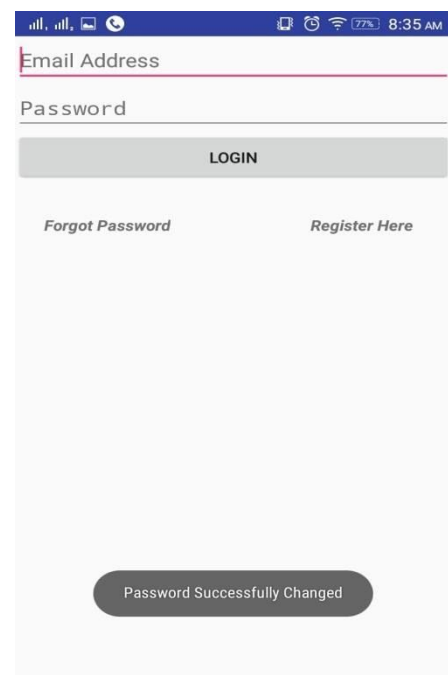


A screenshot of a mobile application interface. At the top, a status bar shows 'Saving screenshot...'. Below it, there are two input fields: 'Email Address' and 'Password'. A grey button labeled 'LOGIN' is positioned below the password field. Underneath the login button, there are two links: 'Forgot Password' and 'Register Here'. At the bottom of the screen, a dark grey button with white text says 'Register Successful'.

If the user is already registered and doesn't remember his password he can go to Forgot Password. Input his/her email and new password.

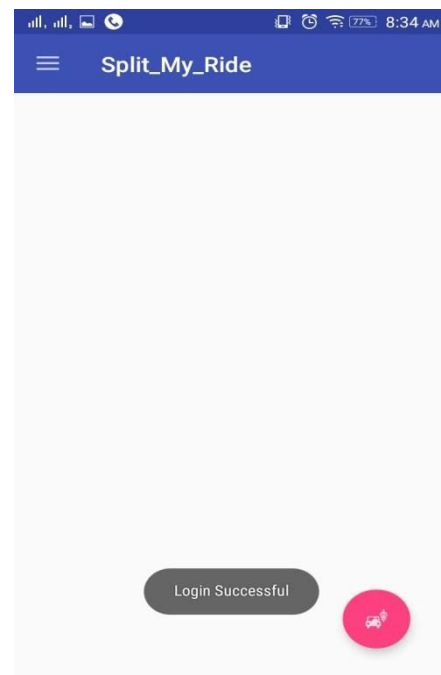
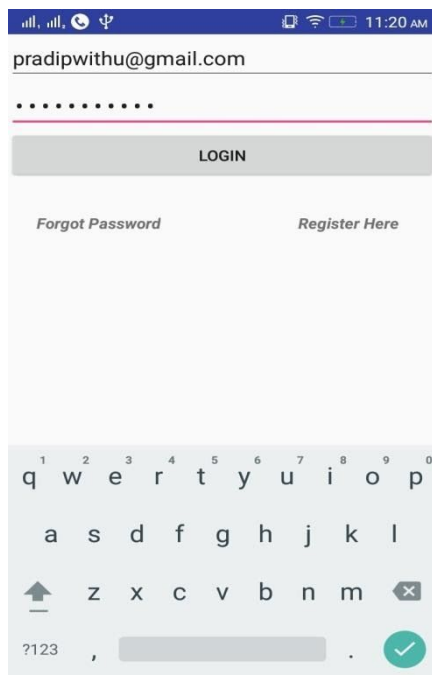


A screenshot of a mobile application interface titled 'Change Password'. The screen shows the email address 'pradipwithu@gmail.com' entered in a field. Below it, a password field is filled with dots. A grey button labeled 'CONFIRM' is located below the password field. At the bottom of the screen, there is a numeric keypad with digits 1-0, a row of symbols including '@', '#', '\$', '%', '&', '-', '+', '(', ')', and another row with '=', '<', '\*', '"', '"', ':', ';', '!', '?', and a backspace icon. A green checkmark icon is visible in the bottom right corner of the keypad area.

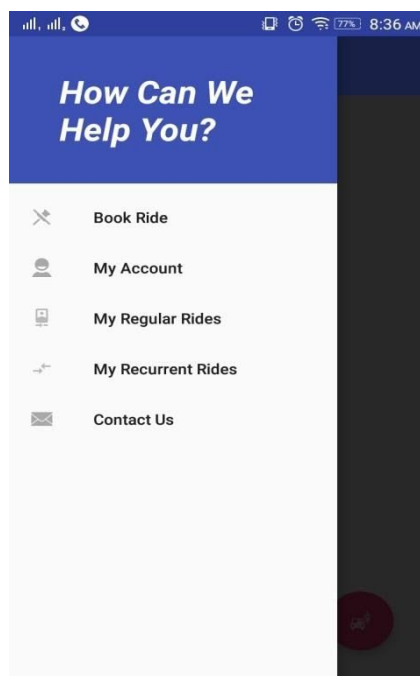


A screenshot of a mobile application interface. At the top, a status bar shows '8:35 AM'. Below it, there are two input fields: 'Email Address' and 'Password'. A grey button labeled 'LOGIN' is positioned below the password field. Underneath the login button, there are two links: 'Forgot Password' and 'Register Here'. At the bottom of the screen, a dark grey button with white text says 'Password Successfully Changed'.

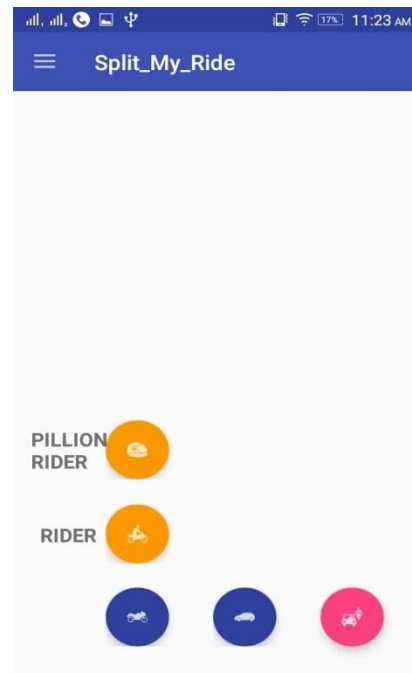
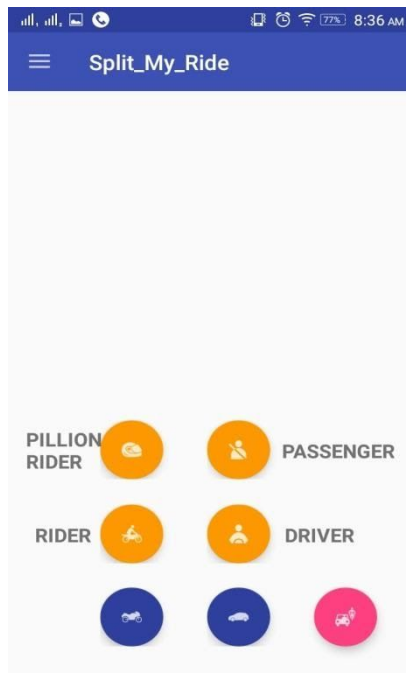
Users will now login with their email and password. The default page that opens up after logging in is the book ride page.



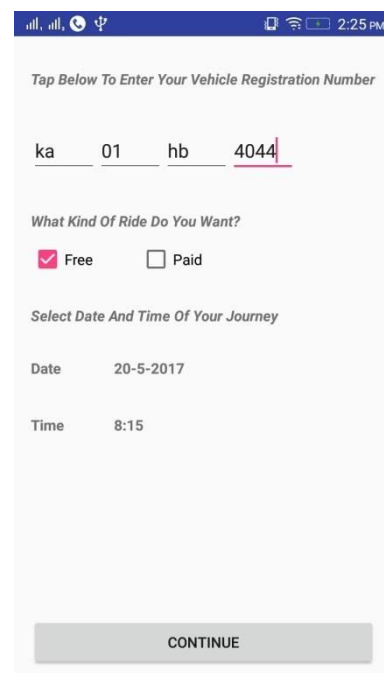
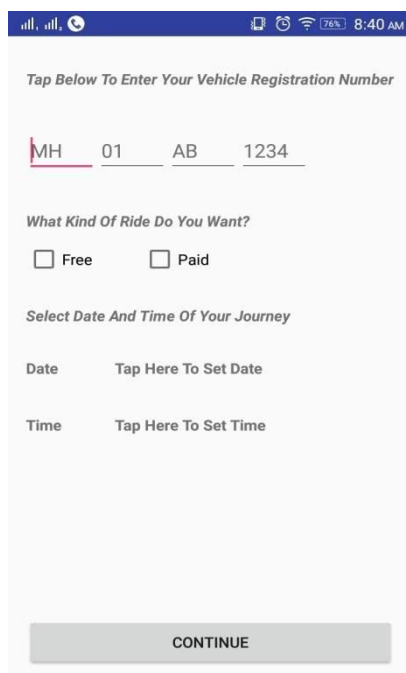
Users can open up the navigation pane for more details.



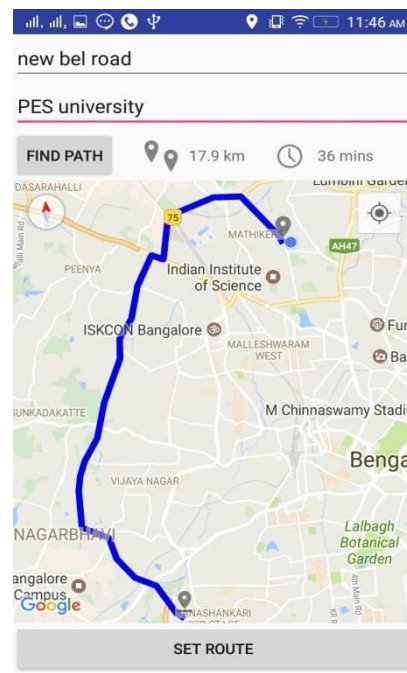
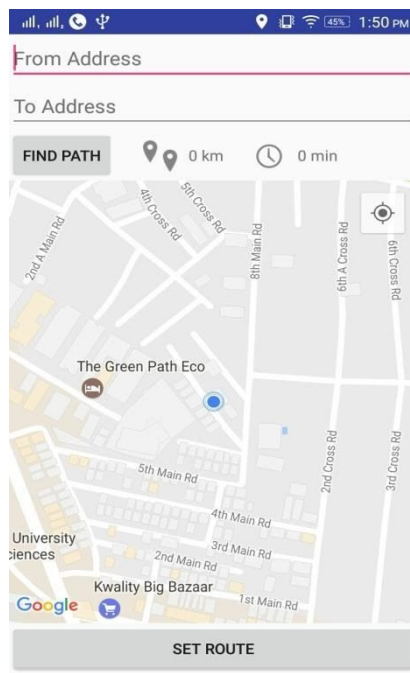
In Book Ride page as seen below users can be drivers or passengers in selected bike or car. Let's book a ride in bike now.



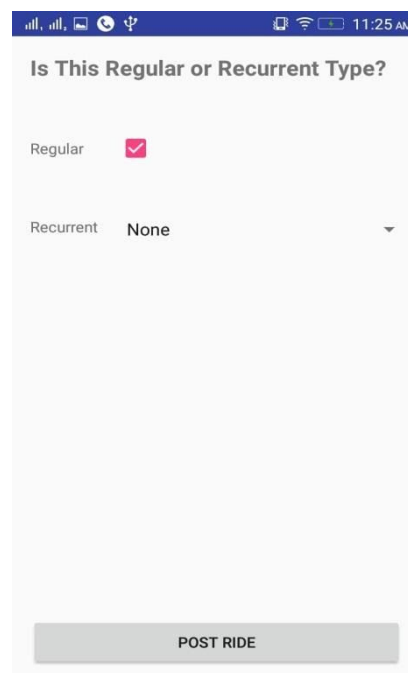
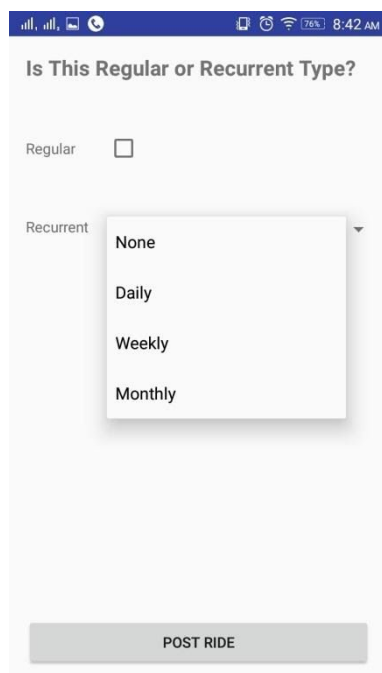
Once you select driver you are directed to another page where you have to enter your vehicle registration details and check if it's a free or paid ride and set date & time. After inserting all details click continue.



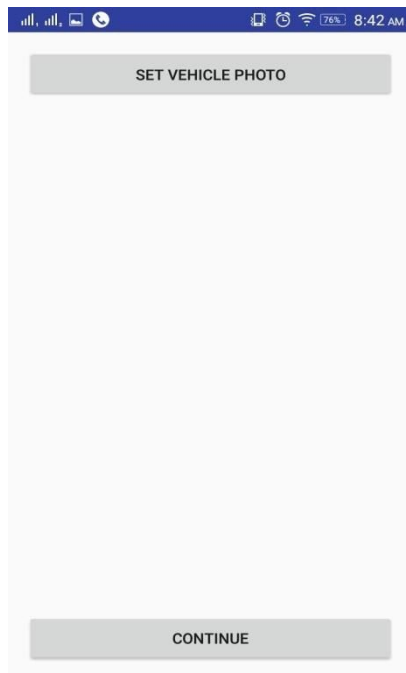
Next activity that opens up is the integrated Google Maps which will let you set the origin and destination of your journey plus calculate the distance and duration. GPS will let you know your current location and you can type that in the address. Click Find Path for more details and then set route to confirm it.



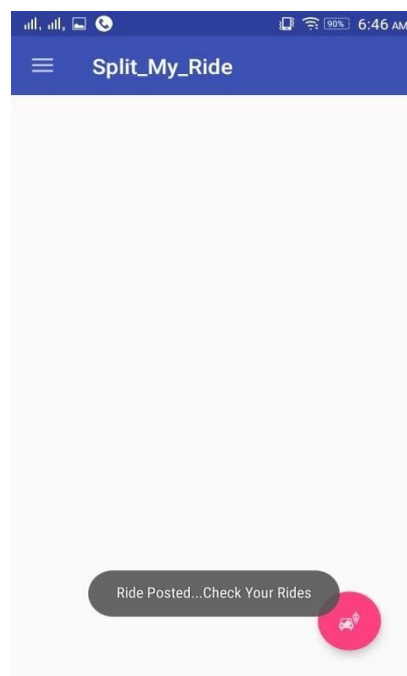
After setting the route you are asked whether it is a regular ride i.e. just one time travel or a recurrent ride i.e. often or frequently travelling in this path.



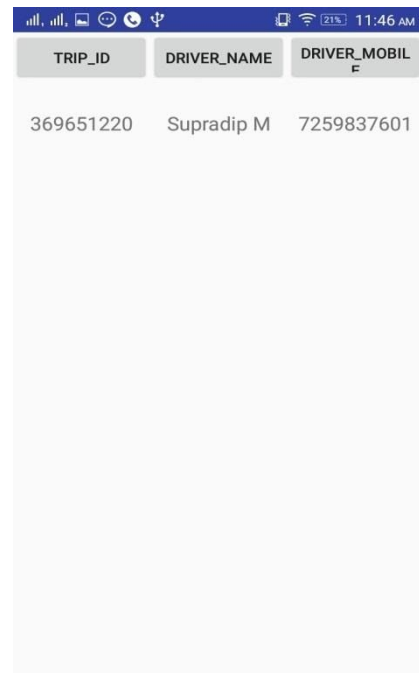
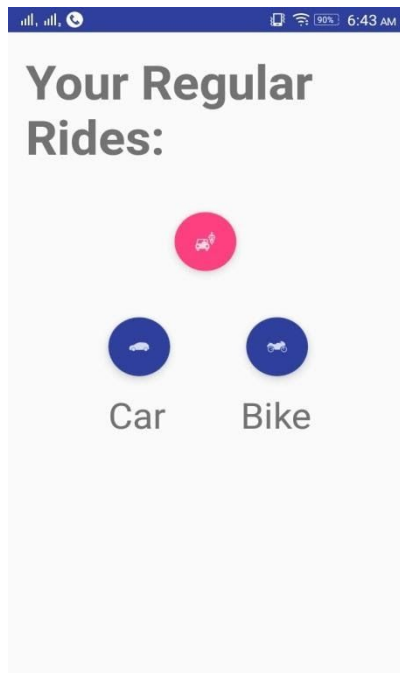
Last part for the driver is to set his vehicle picture so that passengers can see and verify that a genuine rider has posted the ride.



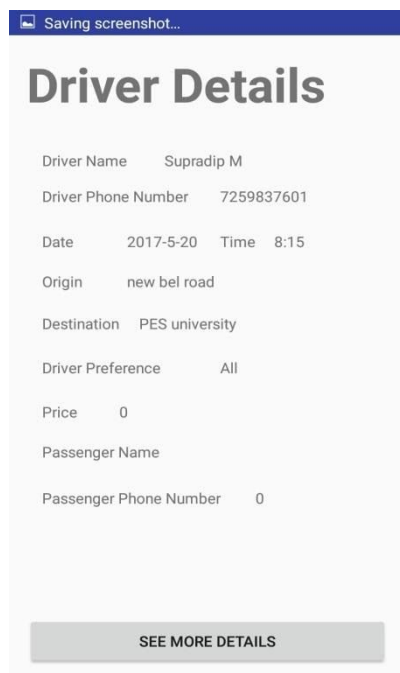
Click continue and you will be redirected to the main page and a message displayed stating that the ride is successfully posted.



In the navigation pane select my regular rides and select Bike. The trip id, driver name, and driver phone number is displayed.

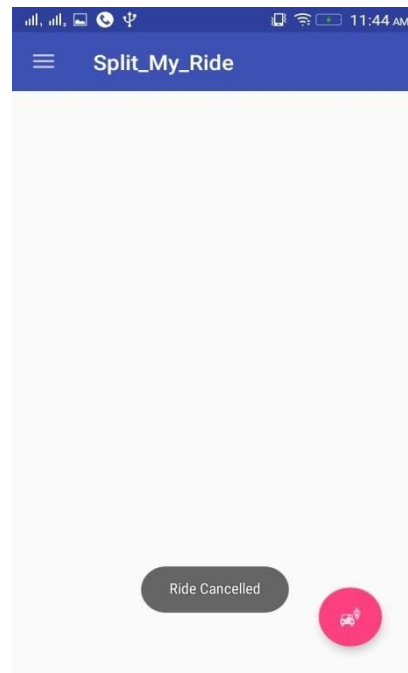


Click on the Trip and you can see everything about the current trip.





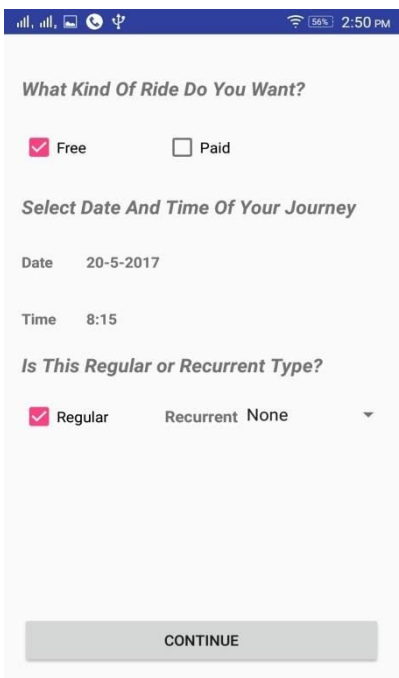
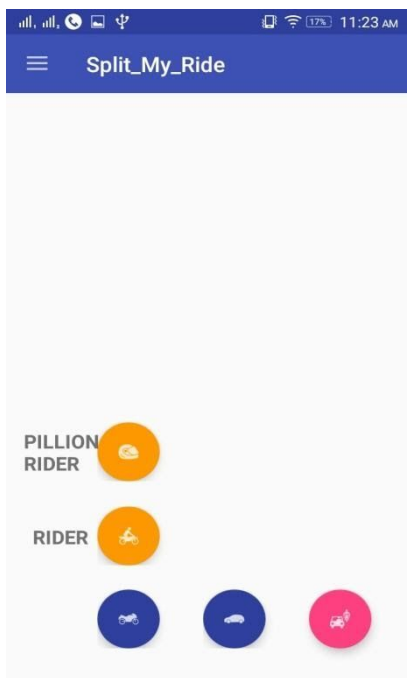
Here, since driver has posted the ride he can cancel it if he chooses to. If cancel is clicked the ride is deleted and the message is displayed.



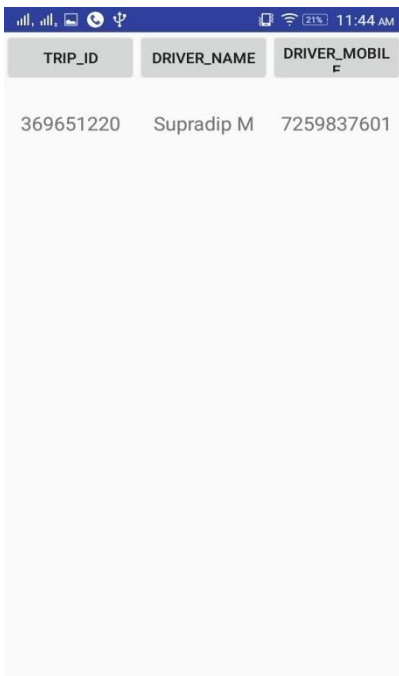
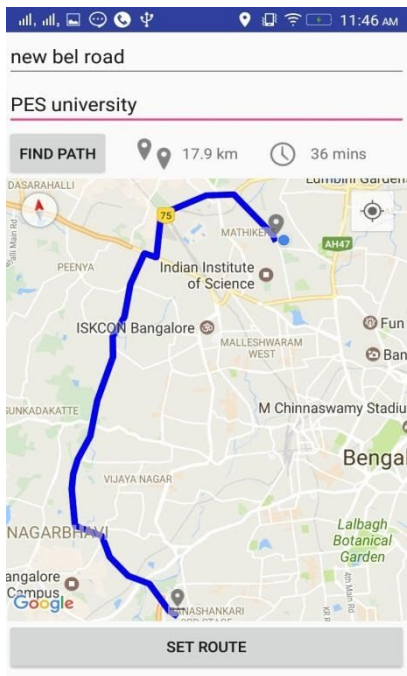
Now let's register and login with another user and be a passenger to this ride.

A screenshot of a registration form. At the top, there is a blue header bar with a white hamburger menu icon on the left and the text "Split\_My\_Ride" in white. The form has several input fields: "Name" with the text "Akash B", "Email" with the text "a@yahoo.com", "Password" with a series of dots, and "Phone Number" with the text "8963251478". Below the phone number field are two radio buttons: "Male" (checked) and "Female" (unchecked). Below these is a gray button labeled "REGISTER". Below the "REGISTER" button is a link labeled "Login Here". At the bottom of the form is a numeric keypad with digits 1-9, 0, and symbols like \*, #, -, ., and a green checkmark button.A screenshot of a login form. At the top, there is a blue header bar with a white hamburger menu icon on the left and the text "Split\_My\_Ride" in white. The form has two input fields: "Email" with the text "a@yahoo.com" and "Password" with a series of dots. Below the password field is a gray button labeled "LOGIN". Below the "LOGIN" button are two links: "Forgot Password" and "Register Here".

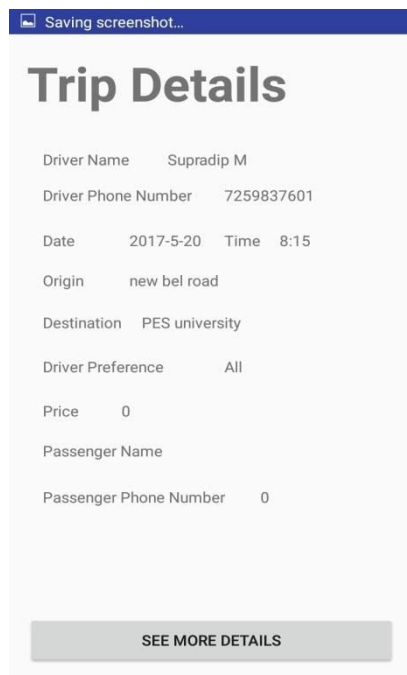
Let's select pillion rider which also means passenger. Then set the ride kind, date & time, and if it's recurrent or regular ride. We're going to match the inputs with the previous driver's details so that we can confirm that ride.



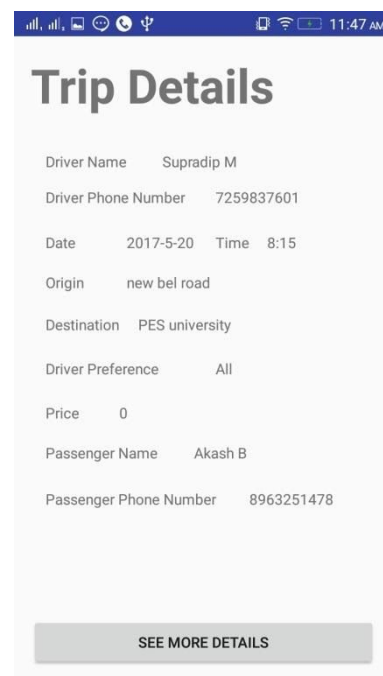
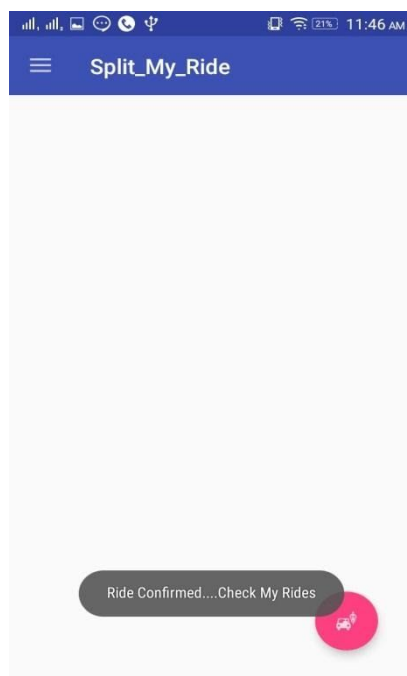
Click continue and now we have to set the route. After the route is set different drivers travelling to that location is displayed in a list. Here, since we matched the details with the driver his trip is shown.



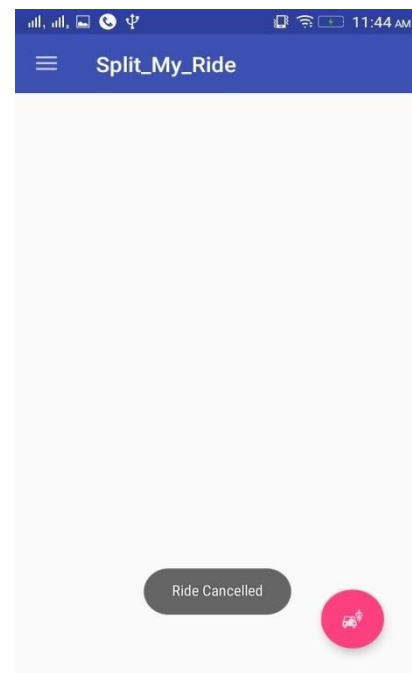
Click on the trip and you can see full details of the current driver. Then click see more details. As you can see the trip was requested by the driver and passengers' can confirm if they are satisfied with the details provided.



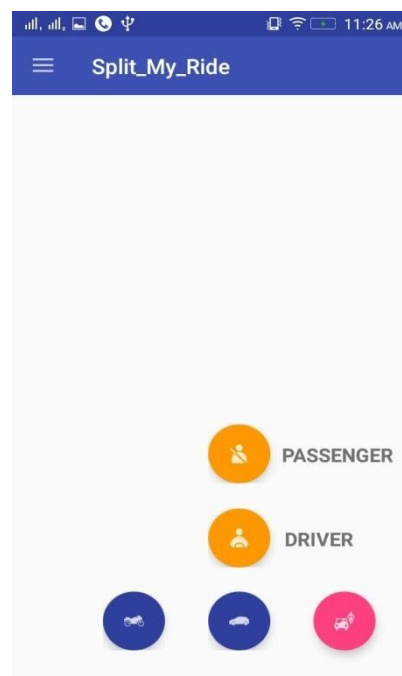
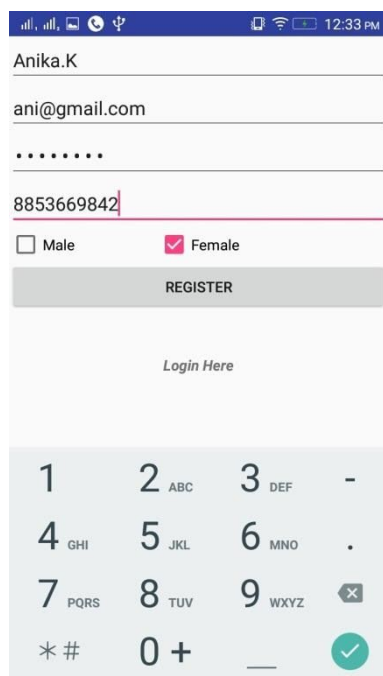
Once, the passenger clicks confirm. The ride between the driver and the passenger is finalized and stored in the database and the next time you open my regular rides you will see:



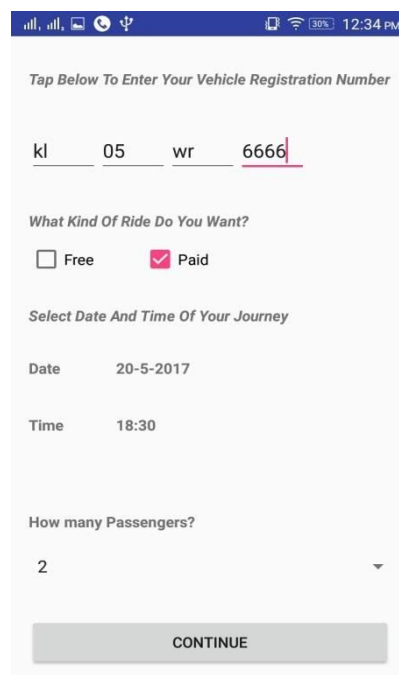
When you click see more details the passenger has the option to cancel the trip. If cancel is pressed he/she will be removed from the trip but the ride will not be deleted. It will be available for other passengers.



Next, let's book ride in car. For this, we will be a female user and so after registering and logging in go to book ride page and tap on the car floating button and select driver.

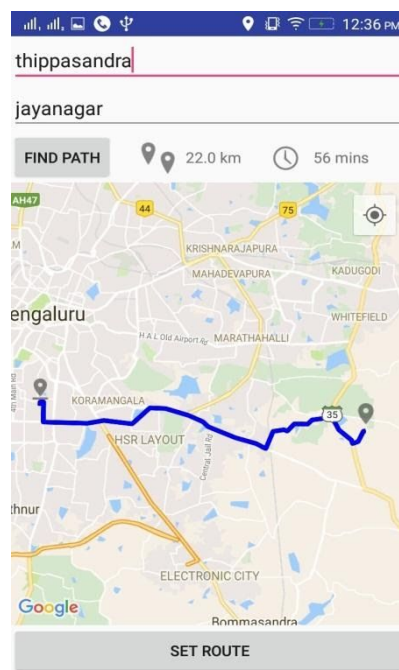


Once you select driver have to enter your vehicle registration details and check if it's a free or paid ride and set date & time. For car users have the option to limit number of passengers, maximum is 4. After inserting all details click continue.

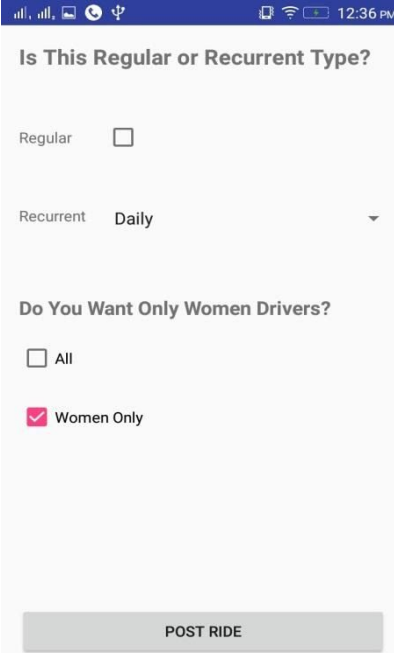


This screenshot shows a mobile application interface for entering vehicle registration details. At the top, there's a status bar with signal, battery, and time (12:34 PM). Below it, a header says "Tap Below To Enter Your Vehicle Registration Number". The registration number is entered as "kl 05 wr 6666" in a segmented input field. Below this, a section titled "What Kind Of Ride Do You Want?" has two options: "Free" (unchecked) and "Paid" (checked with a red checkmark). Another section titled "Select Date And Time Of Your Journey" shows "Date" as "20-5-2017" and "Time" as "18:30". Below that, "How many Passengers?" is set to "2" with a dropdown arrow. At the bottom is a large grey button labeled "CONTINUE".

Next activity that opens up is the integrated Google Maps which will let you set the origin and destination of your journey plus calculate the distance and duration. Click Find Path for more details and then set route to confirm it.



After setting the route you are asked whether it is a regular ride i.e. just one time travel or a recurrent ride i.e. often or frequently travelling in this path. Another factor is that since the user is female the option to travel with women or all passengers is given.



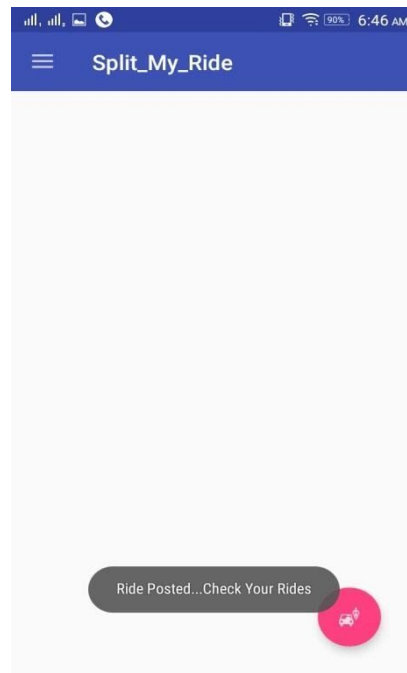
The screenshot shows a mobile app interface with a status bar at the top displaying signal strength, battery level, and the time 12:36 PM. The main content area has a light gray background. At the top, the text "Is This Regular or Recurrent Type?" is displayed. Below this, there are two options: "Regular" with an unchecked checkbox, and "Recurrent" with a dropdown menu currently showing "Daily". Further down, the text "Do You Want Only Women Drivers?" is shown. Below this, there are two options: "All" with an unchecked checkbox, and "Women Only" with a checked checkbox. At the bottom of the form, there is a gray button labeled "POST RIDE".

Last part for the driver is to set his vehicle picture so that passengers can see and verify that a genuine rider has posted the ride.

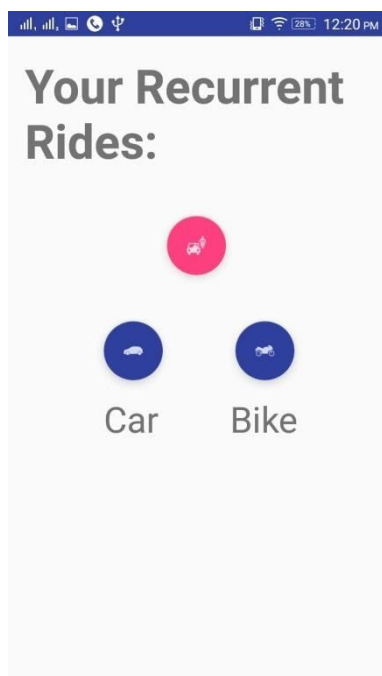


The screenshot shows a mobile app interface with a status bar at the top displaying signal strength, battery level, and the time 12:36 PM. The main content area has a light gray background. At the top, there is a gray button labeled "SET VEHICLE PHOTO". Below this, there is a large white rectangular area containing a red hatchback car. At the bottom of the form, there is a gray button labeled "CONTINUE".

Click continue and you will be redirected to the main page and a message displayed stating that the ride is successfully posted.



Now, go to My Recurrent Rides in navigation pane and select car. You will see your ride details.

A screenshot of a mobile application interface showing a table of ride details. At the top, there is a blue header bar with white status icons on the left and the time "12:37 PM" on the right. Below the header, the main area is a light gray. The table has three columns: "TRIP\_ID", "DRIVER\_NAME", and "DRIVER\_MOBIL E". The first row of data contains the values "995334889", "Anika.K", and "8853669842".

TRIP_ID	DRIVER_NAME	DRIVER_MOBIL E
995334889	Anika.K	8853669842

Click on the trip to know about the trip

Saving screenshot...

## Driver Details

Driver Name	Anika.K		
Driver Phone Number	8853669842		
Date	2017-5-20	Time	18:30
Origin	thippasandra		
Destination	jayanagar		
Driver Preference	Women		
Price	110		
Occurrence	Daily		

SEE MORE DETAILS

Saving screenshot...

## Passenger Details

Passenger1_Name	
Passenger1_Phone	0
Passenger2_Name	
Passenger2_Phone	0
Passenger3_Name	
Passenger3_Phone	0
Passenger4_Name	
Passenger4_Phone	0
Vacancy	2

SEE MORE DETAILS

As you can see the ride is requested.

Signal icons, Wi-Fi, 12:37 PM

Bike Registration kl 05 wr 6666

Status Requested



CANCEL RIDE



When women passengers are booking they have to put in the same details to match the drivers they want and then the trips are displayed.

12:38 PM

What Kind Of Ride Do You Want?

☐ Free

☒ Paid

Select Date And Time Of Your Journey

Date

20-5-2017

Time

18:30

Is This Regular or Recurrent Type?

☐ Regular

Recurrent Daily

Do You Want Only Women Drivers?

☐ All

☒ Women Only

CONTINUE

12:43 PM

TRIP_ID	DRIVER_NAME	DRIVER_MOBIL E
995334889	Anika.K	8853669842

Click on the trip to see its details

Saving screenshot...

Driver Details

Driver Name

Anika.K

Driver Phone Number

8853669842

Date

2017-5-20

Time

18:30

Origin

thippasandra

Destination

jayanagar

Driver Preference

Women

Price

110

Occurrence

Daily

SEE MORE DETAILS

Saving screenshot...

Passenger Details

Passenger1\_Name

Passenger1\_Phone

0

Passenger2\_Name

Passenger2\_Phone

0

Passenger3\_Name

Passenger3\_Phone

0

Passenger4\_Name

Passenger4\_Phone

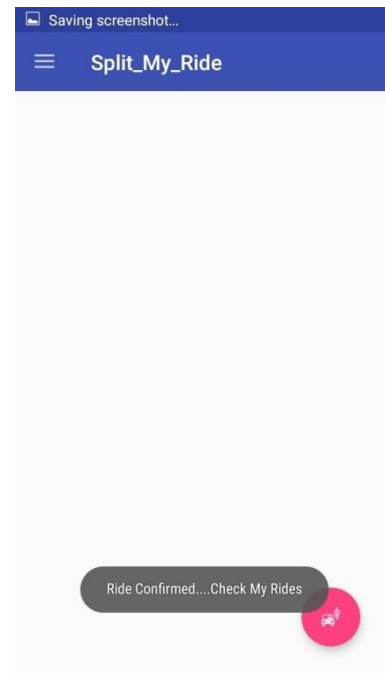
0

Vacancy

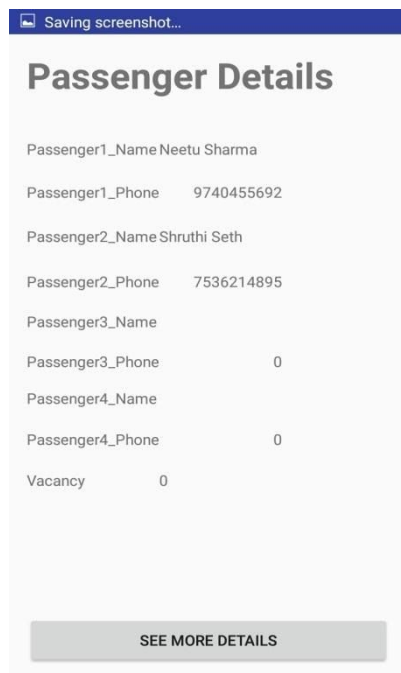
2

SEE MORE DETAILS

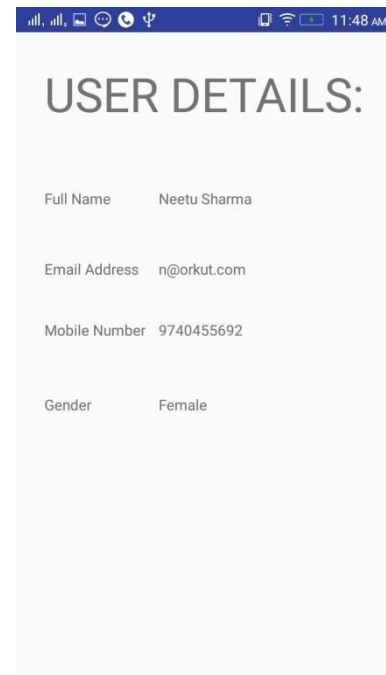
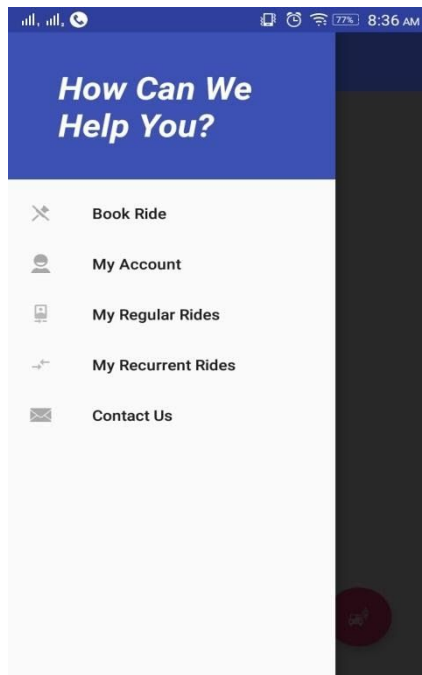
Once, passengers' presses confirm the ride details are updated in the database.



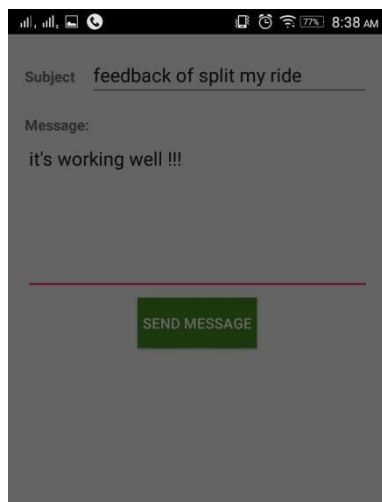
Open recurrent rides in both drivers and passengers profile you will see the passenger details updated and the status of the ride becomes full because vacancy was only 2.



In the navigation pane users can also see their personal details by clicking on my account.



Lastly, there is contact us in navigation pane where users can send message to admin regarding rides, feedback, complaints etc. through gmail only.



Send Email Via



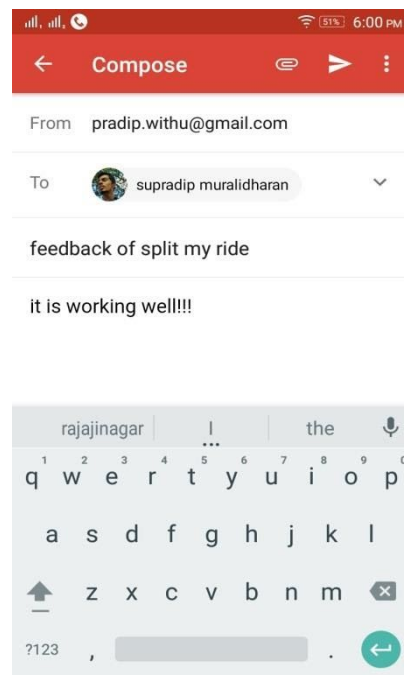
SHAREit

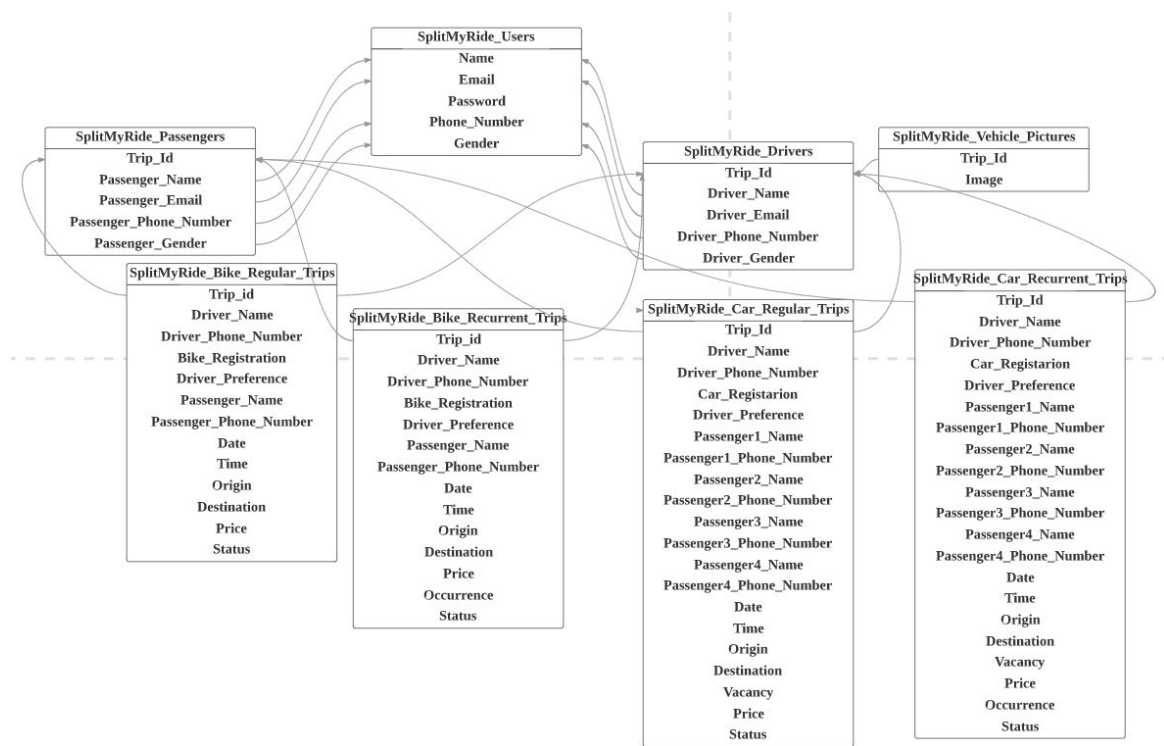


Gmail



Bluetooth





**Database Schema of the backend php code hosted on 000webhost**

## **CONCLUSION**

This is my first attempt in developing a mobile application with the use of Google API's which gave me a basic understanding of development and challenges of creating a real-time application. I've also tested the application on 2 other devices i.e. OnePlusThree & Moto G4 apart from my Lenovo A7000; it shows that the proposed system is performing as per standards and is upto mark. The system is planned in a way that makes it easy to implement without compromising user functionality and ease of use. Thus, it is an environment-friendly social application that reduces the time and cost of travel by sharing of fuel and toll expenses amongst participants.

## FUTURE ENHANCEMENTS

There are a lot of improvements that can be incorporated into this paper that makes it more complete and feature rich. The future work with regards to this paper can be summarized as follows:

- **Chat Feature** - In this project, for drivers and passengers to contact there is only consideration of phone number displayed and they are required to contact verbally instead it can be extended to a chat feature which will make it easier for them to connect.
- **E-Wallet Payment** - Secondly, the transfer of money for the paid rides is done by cash. It can be changed to E-Wallet payments by connecting various companies' gateway transactions such as paytm, ola money, etc.
- **Track Route** - Lastly, using integrated google maps for automatic live route tracking while on a journey.