

# **Screen Sketches**

## **2-Jabir-5: Cyclone Carpool**

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# Actors

1. **Riders** have the ability to:
  - a. **View and Search Trips:** Browse and search for available trips posted by drivers.
  - b. **Profile Management:** Edit personal information such as email, phone number, and profile picture.
  - c. **Communication:** Message other users (riders and drivers) to set up rides or ask questions regarding trips.
2. **Drivers** have all the privileges of Riders, with additional capabilities to:
  - a. **Create Trips:** Post new trips that riders can join.
  - b. **Manage Trips:** Edit or delete existing trips.
  - c. **Vehicle Management:** Add or modify the details of the vehicle being used for trips.
3. **Administrators** have full control over the system, including:
  - a. **Account Verification:** Approve and verify user accounts (both riders and drivers) to ensure platform integrity.
  - b. **Monitoring and Moderation:** Monitor posted trips and user messages, removing content that violates community guidelines or policies.
  - c. **System Updates:** Update and maintain the app's software and infrastructure.

# Non-Functional Requirements

## 1. Security

- a. Protecting user data (location, personal info) and ensuring secure authentication is the top priority, since we deal with transportation and personal data.

## 2. Performance

- a. The app must be responsive, especially during peak usage times (before and after university breaks). Slow response times would frustrate users and negatively impact adoption.

## 3. Usability

- a. A user-friendly interface tailored to students is crucial for initial adoption and continued use. If the app is hard to navigate, users are likely to abandon it.

## 4. Reliability

- a. Users must be able to depend on the app to book and manage rides without fear of data loss or crashes. Ride information and transaction integrity are critical for a smooth user experience.

## 5. Availability

- a. High availability ensures that users can book rides at any time, especially during critical periods like semester breaks. Downtime during these times could lead to loss of trust.

## 6. Scalability

- a. As the app grows in user base (especially if expanded to more campuses), the system should be able to scale seamlessly without sacrificing performance.

# Tables and Fields

## 1. User: information associated with the user account

User Id  
User First Name  
User Last Name  
User Email  
User Password  
Profile Picture

## 2. Privileges (User)

Uses of user Id  
Privilege roles  
Privilege records (assigned date, approved administrator, etc.)

## 3. Vehicles (optional): information associated with the user's vehicle

User Id (owner)  
Seat number  
Smoking/no smoking  
Miscellaneous (color, make, license plate, etc.)

## 4. Trips: trip-specific information

User Id (driver / owner of the vehicle + passengers)  
Vehicle for the trip  
Time (Pick up)  
Locations (starting + destination)  
Price

## 5. Messages (with different approaches that we build gradually for new functionalities)

**Message Board:** A public, bulletin board approach

Sender

Content

**Private Conversation:** User to User specific

User1 & User2

Sent messages

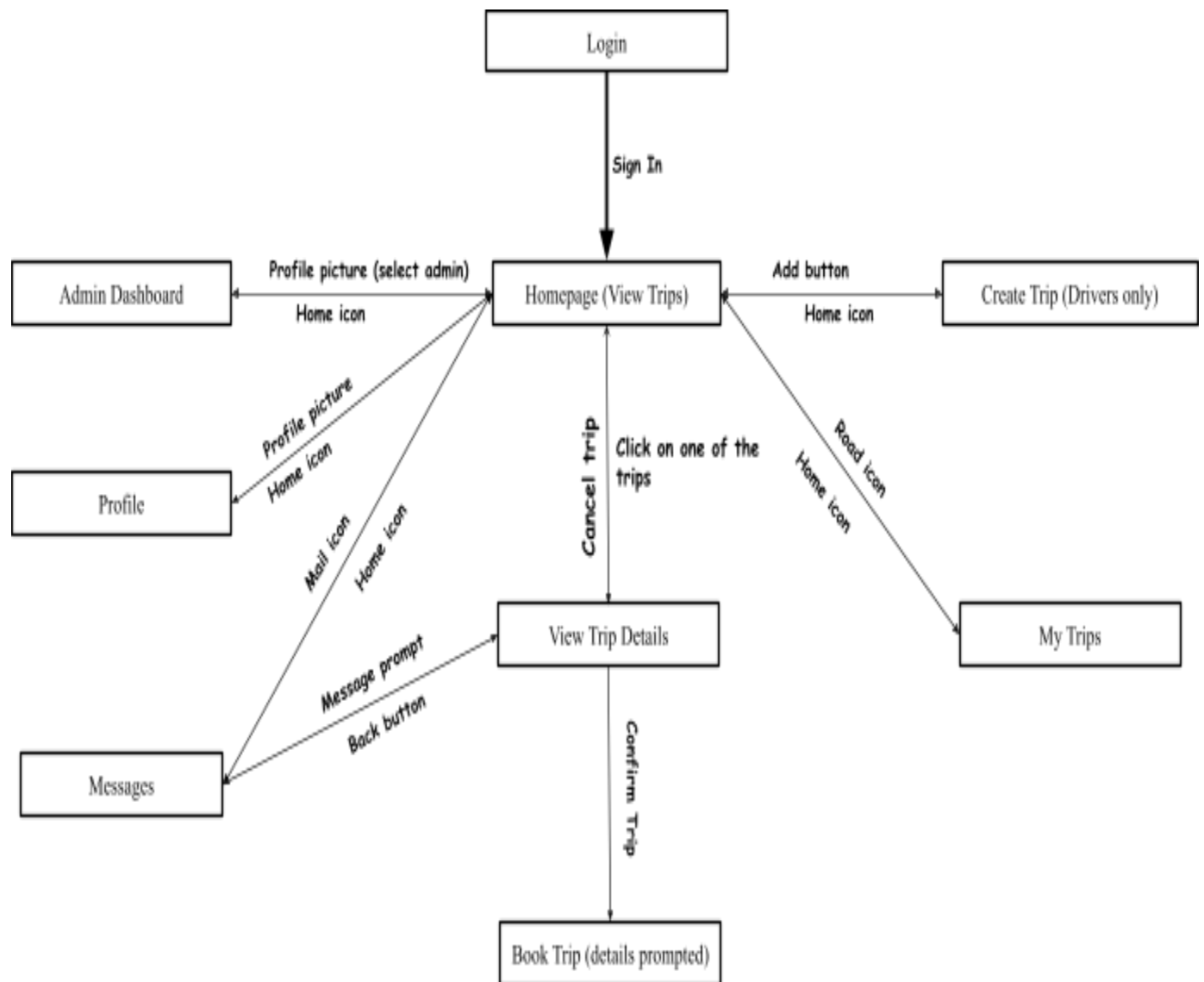
Sent time

Accessing trip information

**Group Conversation:** Involves multiple users

More Users

# Screen Flow Diagram



# Screen Sketch #1

Screen Name: Homepage/View trips

Student Name: Marcel Slowikowski



Explanation of page:

This is a home page displayed after a user is signed in.

< There is a search (4) section that is interactable to filter the trips with start and end locations, and displays will be updated accordingly.

The screen displays the available trips in the system(5), with the current filters(default none). Users can scroll down for more trips in the system.

< Trip options are interactable by clicking in for details, which brings the user to the screen displaying the specific trip; the paper plane icon for messaging the driver, which will redirect to a conversation screen.

^ At the bottom of the screen, there are buttons for different functions, this screen is on the home page(#1). The yellow icon indicates the current screen.

The road icon goes to viewing and editing user-specific trips(#2), the mail icon goes to messages(#3), and the user profile picture redirects to the user profile screen(#4).

The bottom is the same for the screens mentioned above, except for clicking icons associated with the current screen won't have any effects.

## Screen Sketch #2



Screen Name: Edit/View My trips

Student Name: Marcel Slowikowski

Explanation of page:

This page displays all the trips associated with the current login user.

< Each of the cards represents one trip, the trip details are listed, including the start/end locations, time, cost, and vehicle information. These trips are sorted by the most recent, and users can scroll down to see the previous trips.

On this page only, the edit button allows users to edit information for that trip, users will be redirected to another trip-specific editing page.

The bottom part of the screen functions the same way as discussed in sketch #1, with home, road, mail, and profile as available choices.

## Screen Sketch #3

Screen Name: View messages

Student Name: Anthony Campana



This screen allows a user to view their message conversations with other users. It provides options to quickly navigate through individual message threads, displaying key information such as the sender, a message preview, and a timestamp. The layout is designed so that users can easily scroll through their conversations, starting from the most recent at the top. Intuitive icons and clear labels ensure that users can effortlessly select a conversation and continue messaging without missing important interactions.

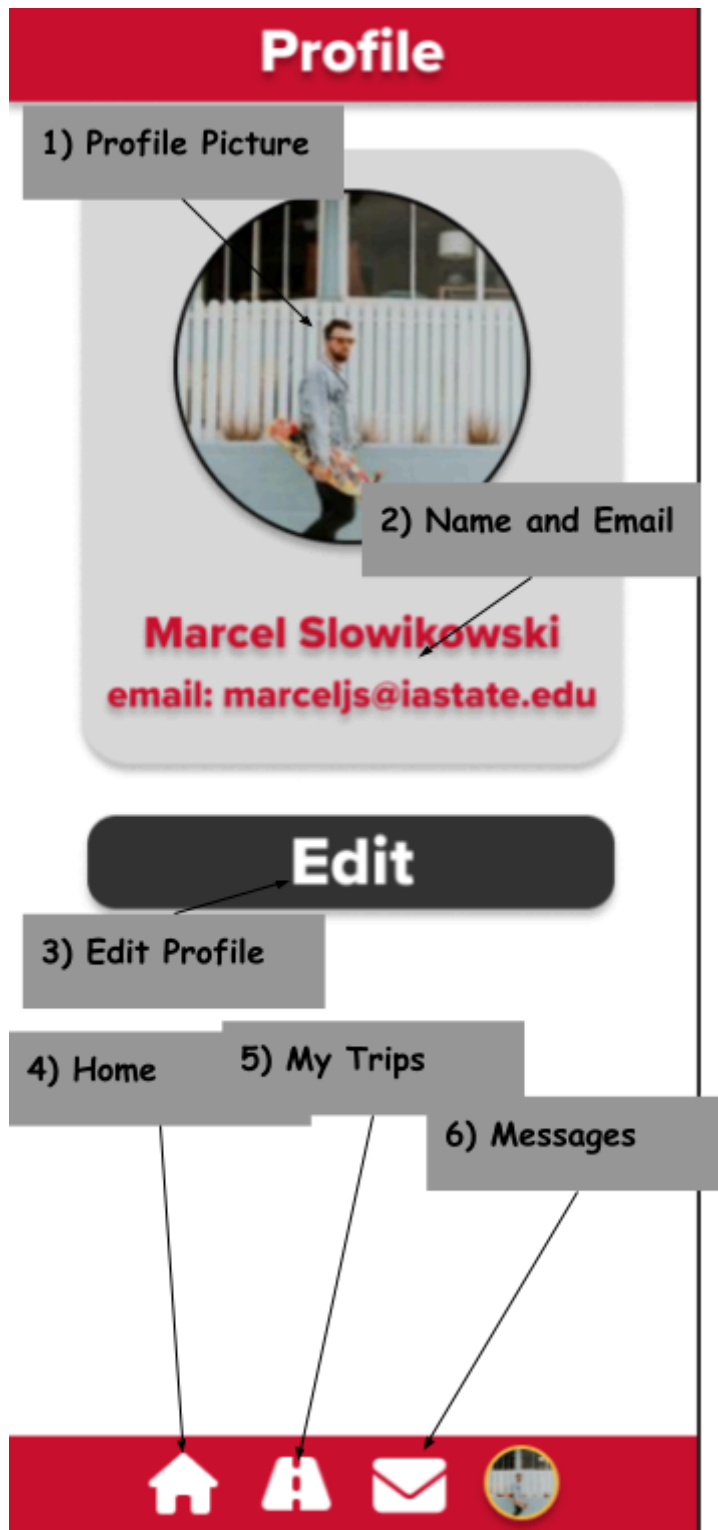
This screen gives you a preview of the user's name (1) and a preview of their message (2) before clicking into the direct message. There are also buttons to navigate to other pages throughout the application, like home (5), my trips (4), and profile page (3).



## Screen Sketch #4

Screen Name: View Profile

Student Name: Anthony Campana



This screen allows users to view their profile information, including their profile picture (1), name, and email (2). At the middle of the page, there is an "Edit Profile" button (3), enabling quick access to modify personal details. The page is structured for easy navigation, with essential options like the "Home," (4) "My Trips," (5) and "Messages" (6) buttons located at the bottom, ensuring users can switch between key sections of the app seamlessly. The layout is clean and intuitive, guiding users to view and manage their profiles effortlessly while maintaining access to the application's core features.

## Screen Sketch #5

Screen Name: Create Trip

Student Name: Tyler Gorton

**Create Trip**

1) Start location

**From:** Iowa State...

2) Stop location

**To:** Iowa State...

3) Pickup location

**Pick Up:** Iowa State...

4) Date

**Date:** xx/xx/xxxx

5) Time

**Time:** 9:00 pm CST

6) Seat availability

**Seats:** Number...

7) Pricing

**Price:** Per Person...

8) Additional Settings

☐ Round Trip

☐ No Smoking

9) Create button

**Create**

Home, List, Mail, Profile icons

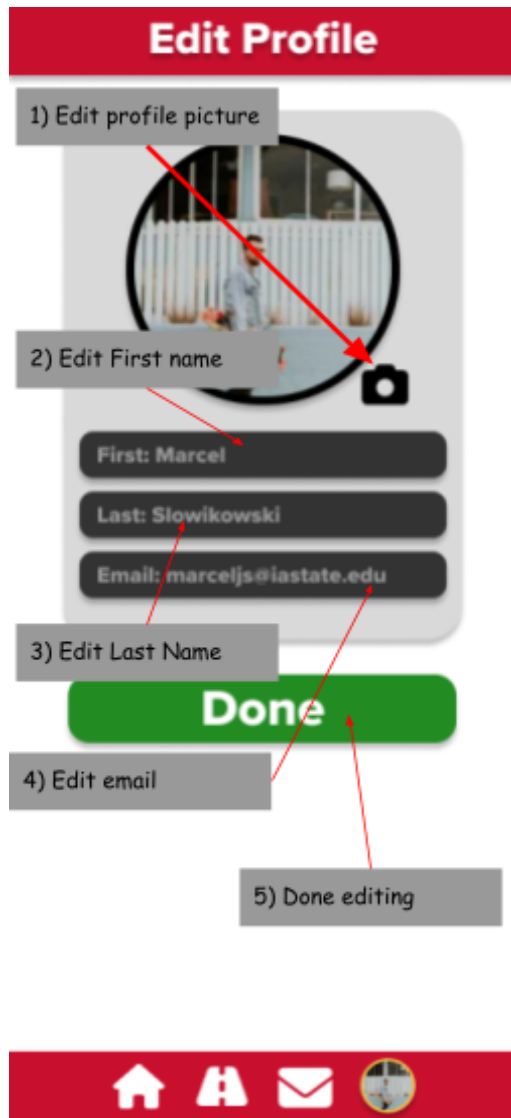
This screen is where a user will set the details for a trip they are creating. This page will open when the user chooses to create a trip from the home page of the app. It has inputs to set trip information including start location (1), end location (2), pickup location (3), date of the trip (4), time of the trip (5), number of seats (6), and price (7). It also has some optional details (8) such as if it is a round trip and if smoking is allowed. When all the details are properly set, the user can click the 'Create' button at the bottom of the page (9) to post the trip.

This interface is simple and straightforward so that creating a trip is as easy as possible. The input fields use clear labels and helpful placeholder text so the expected info is understood.

## Screen Sketch #6

Screen Name: Edit Profile

Student Name: Tyler Gorton



This page allows the editing of profiles.

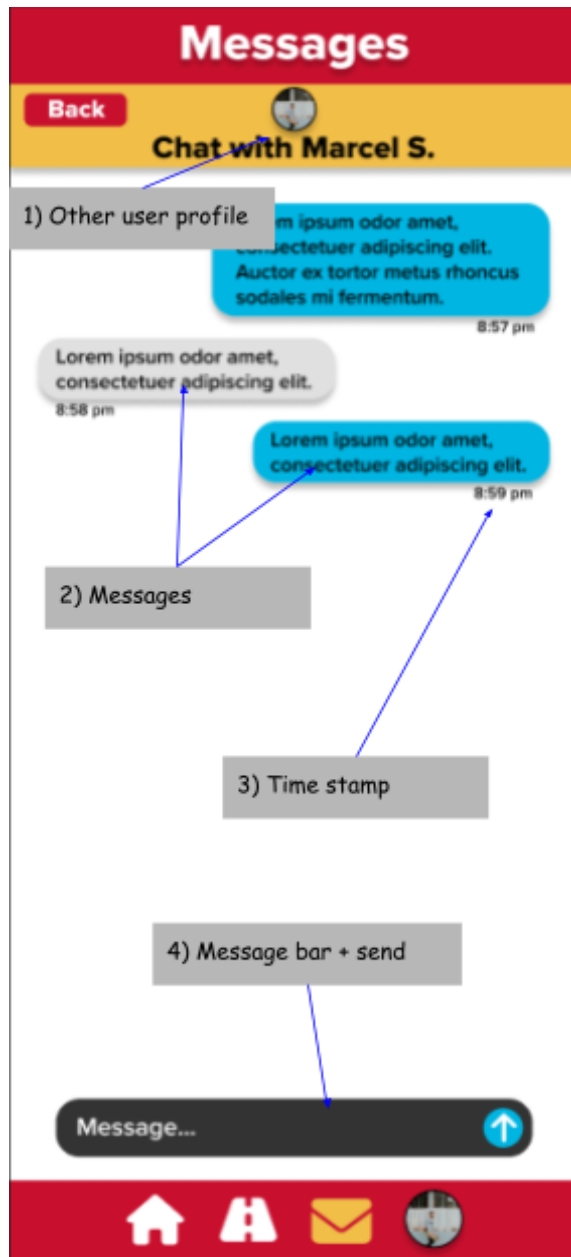
The circle displays the current profile picture, and the camera icon allows users to input another profile picture they'd like.

The three text boxes below allow the editing of first name, last name, and email address, all the changes on this page are saved after clicking the done button.

# Screen Sketch #7

Screen Name: Messages

Student Name: Eddie Gong



This screen is an example of a two-user messaging conversation, between the current account and another user indicated in (1).

The “back” button on the screen is a quick exit back to whichever screen the user was at before opening this conversation.

(2) Messages have time stamps of when they’re sent, and the most recent texts will be displayed on the screen, if the screen is filled, users can scroll up to find older messages.

Messages sent by the current user are inside blue bubbles aligned to the right, while messages from the other user are grey bubbles aligned to the left.

At the bottom(4), there is a message bar that takes inputs of messages, they will be put into the conversation with time stamps after the blue-back-up-arrow button is pressed.

## Screen Sketch #8

Screen Name: Edit Trip

Student Name: Eddie Gong

**Edit Trip**

1) Pre Existing trip information, click in the box to edit

**From:** Iowa State University

**To:** Chicago

**Pick Up:** TBD

**Date:** 12/15/2024

**Time:** 9:00 am CST

**Seats:** 4

**Price:** \$30

2) Done editing button

☐ Round Trip

☒ No Smoking

**Done Editing**

Navigation icons: Home, List, Messages, Profile

This screen allows a driver to edit the details of a previously created trip, with all the preexisting trip information displayed for easy reference and modification (1). Drivers can update critical aspects such as the destination, departure time, and vehicle details. The page is designed to ensure that the most important fields are clearly visible and editable, guiding the user through the process efficiently. Once the driver has made the necessary changes, they can confirm their edits by pressing the "Done Editing" button at the bottom(2), ensuring a smooth transition back to managing their trips. This page also contains all of the navigation buttons like home, my trips, messages, and profile page that you can use.