Grand Valley State University
CIS 641 - Systems Analysis & Design

Professor: Erik Fredericks

Project : Application Development - ShareRide App

Team Name: Team-S

Team Members:

Hyeong Gyu Jang - Back-end developer

Srikar Pratap - AWS DevOps Engineer

Sudarshan Venkatesh - Front-end Designer

Purva Tanmay Shah - Front-end developer

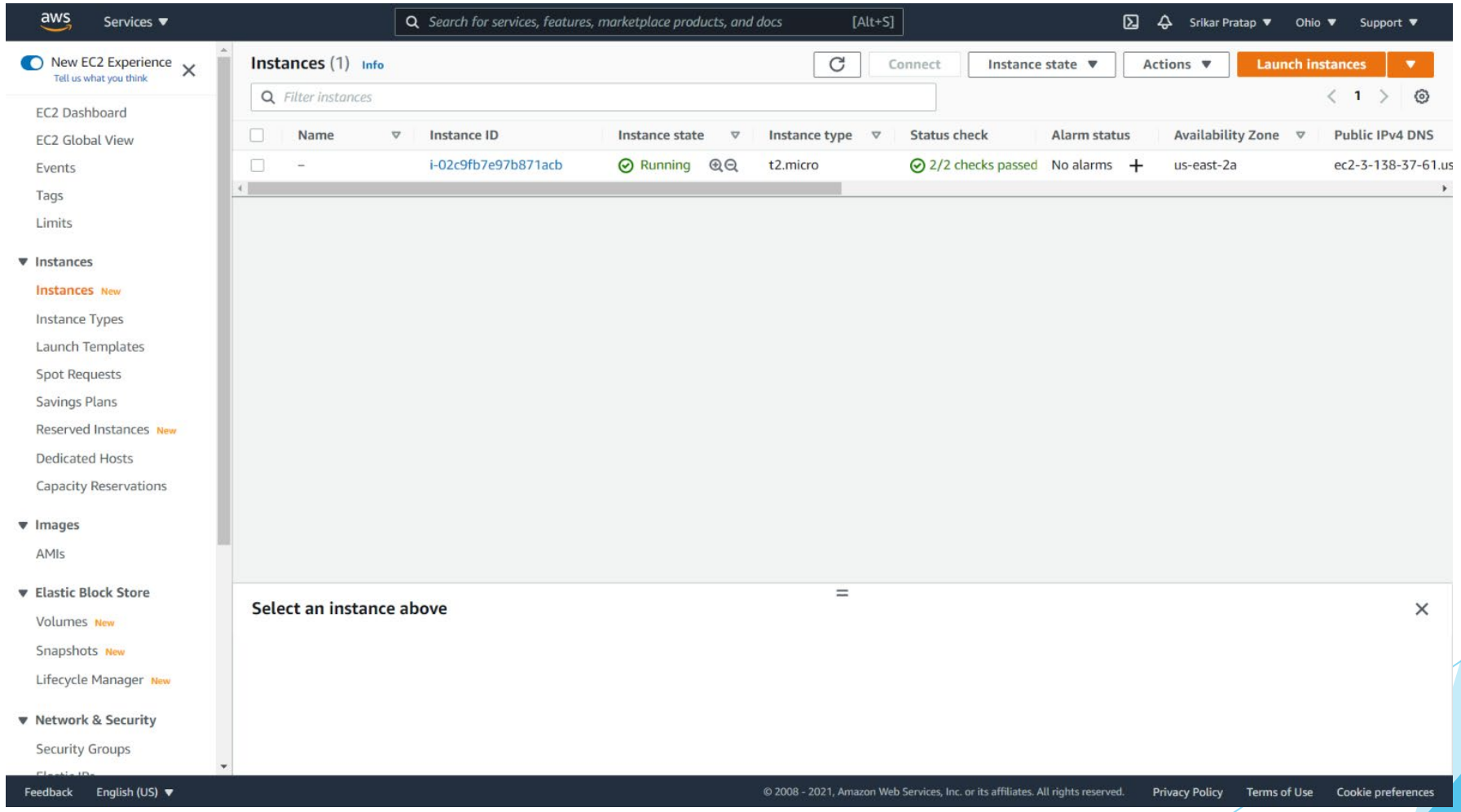
Introduction

Being away from home, in the land of strangers, a young college student can become isolated from access to basic amenities. Our team is building a cross-platform mobile application for a university, where all students and faculty members can join and share rides. Any member of our application can ask for a ride by simply posting a plan, and whichever member who has a vehicle can pick up the member who asked for a ride. Alternatively, any member who already owns a vehicle can post his/her plan to visit somewhere, and whoever fits the schedule can join the trip in first-come-first-serve basis.

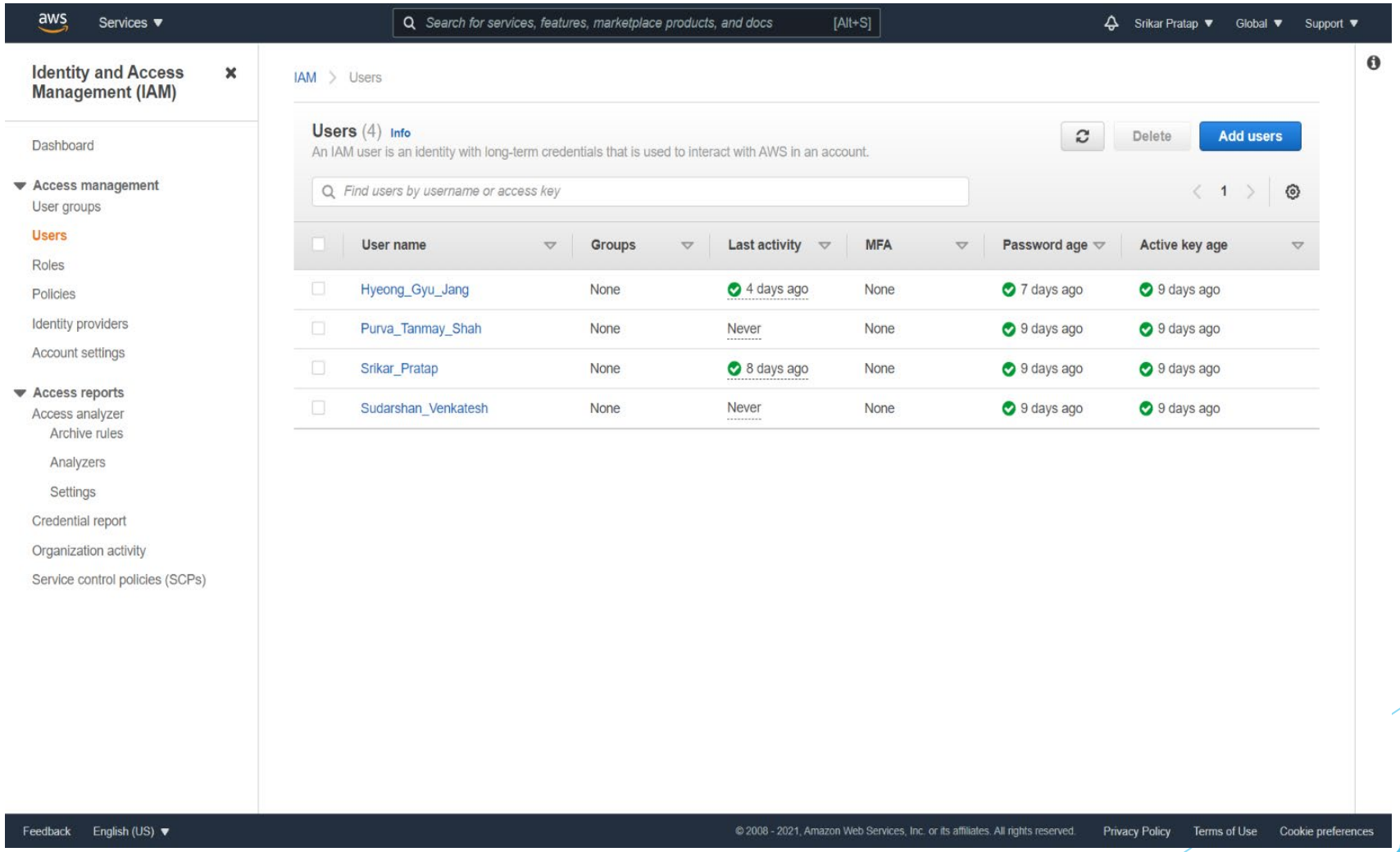
Tech Stack

1) React Native: It is used for the front-end framework development for mobile application development. Using JavaScript for developing,
2) Amazon Web Services: Using the EC2 instance for deployment and DynamoDB as Database.
3) Flask: It is used as back-end server to interact with the front-end application.

EC2 Instance



IAM Users


aws
Services
Search for services, features, marketplace products, and docs [Alt+S]
Srikar Pratap
Global
Support
Identity and Access Management (IAM)
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
Service control policies (SCPs)
IAM > Users
Users (4) Info
An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.
Delete
Add users
Find users by username or access key
1
User name
Groups
Last activity
MFA
Password age
Active key age
Hyeong_Gyu_Jang None 4 days ago None 7 days ago 9 days ago
Purva_Tanmay_Shah None Never None 9 days ago 9 days ago
Srikar_Pratap None 8 days ago None 9 days ago 9 days ago
Sudarshan_Venkatesh None Never None 9 days ago 9 days ago
Feedback
English (US)
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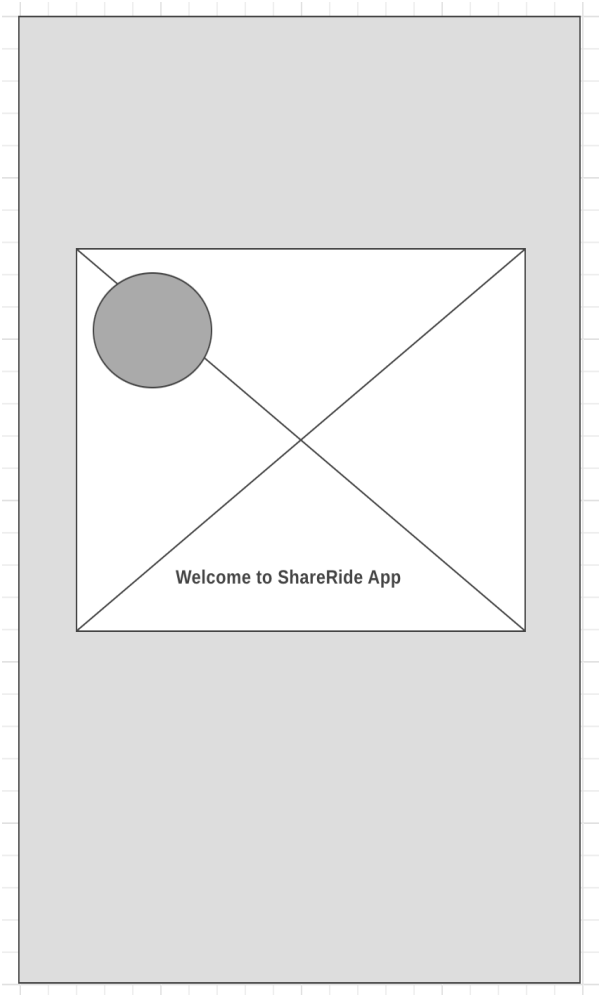
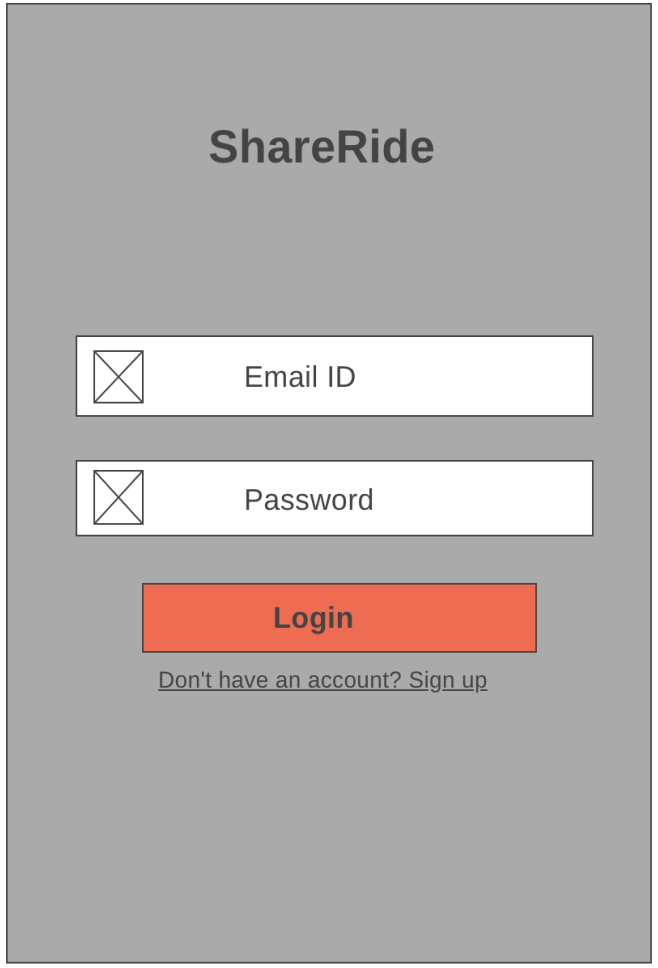
UI Wireframe Design

- Technology Used for Wireframe - wireframe.cc
- Wireframing will help make our content more effective and readable.
- Wireframing will allow us to incorporate creative branding and functionality ideas in a single step, making less room for error, and setting a better core before you move one to mockups or finalizing our project.
- Additionally, wireframes for apps are the best way to test the UI and see if there are any navigations- related changes.

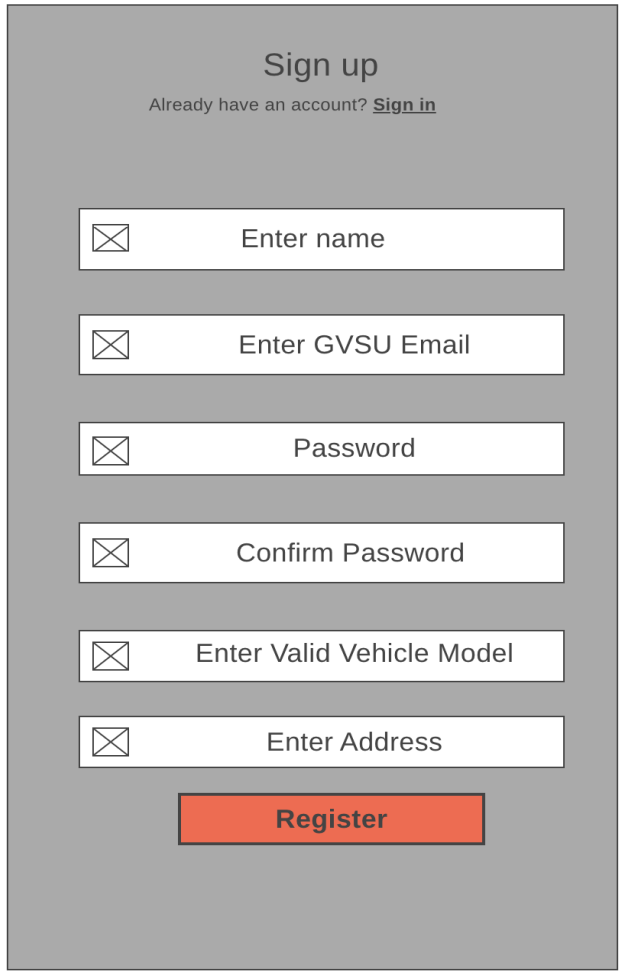
Welcome Screen



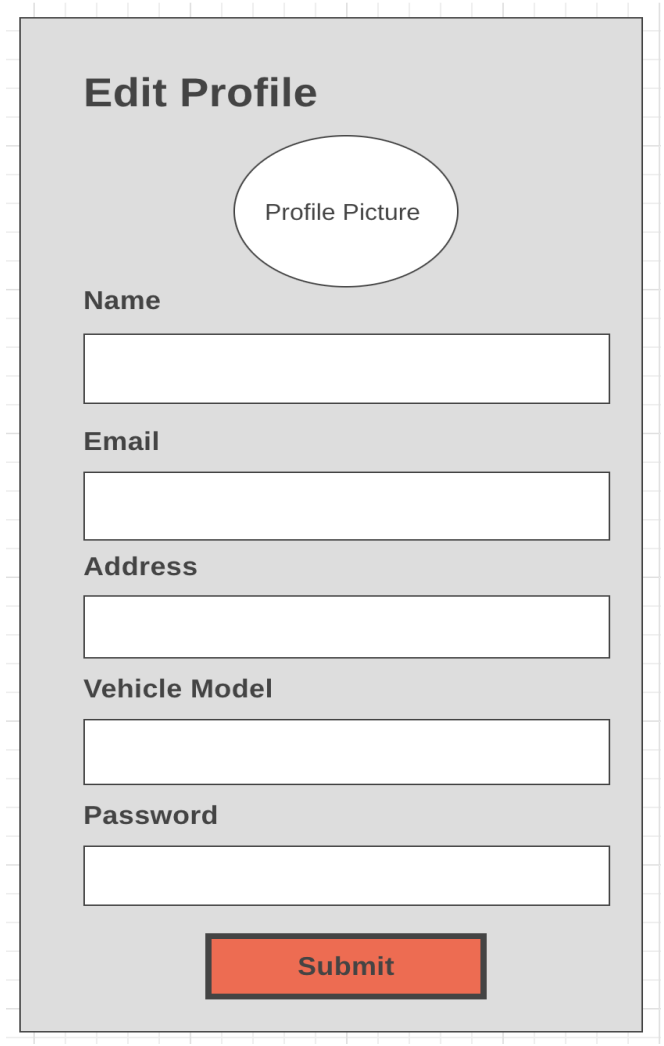
Login Screen



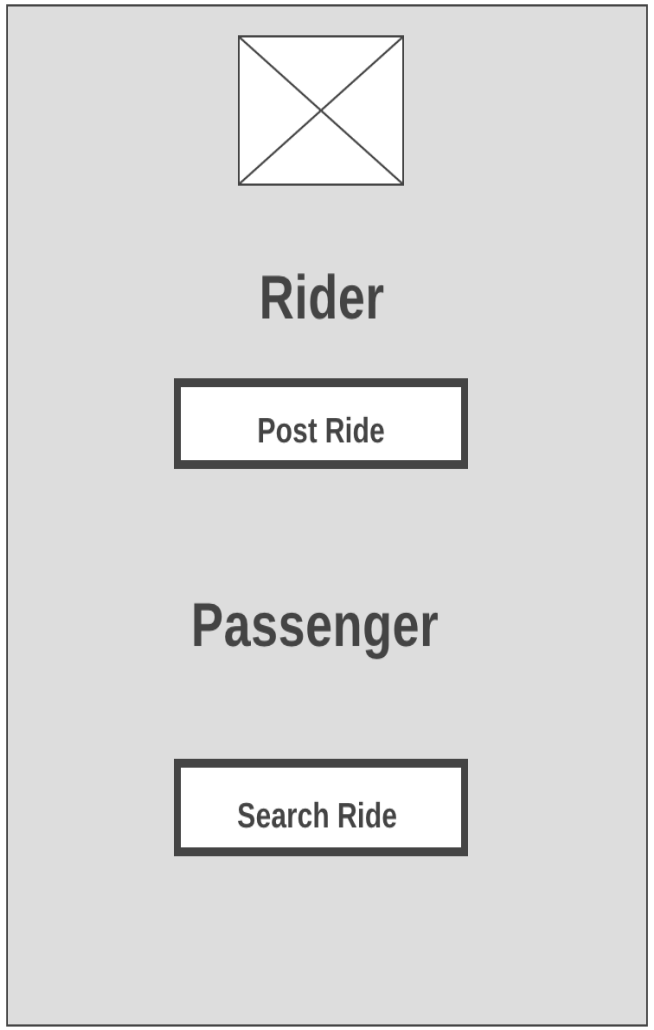
Sign-up Screen



Profile Edit Screen

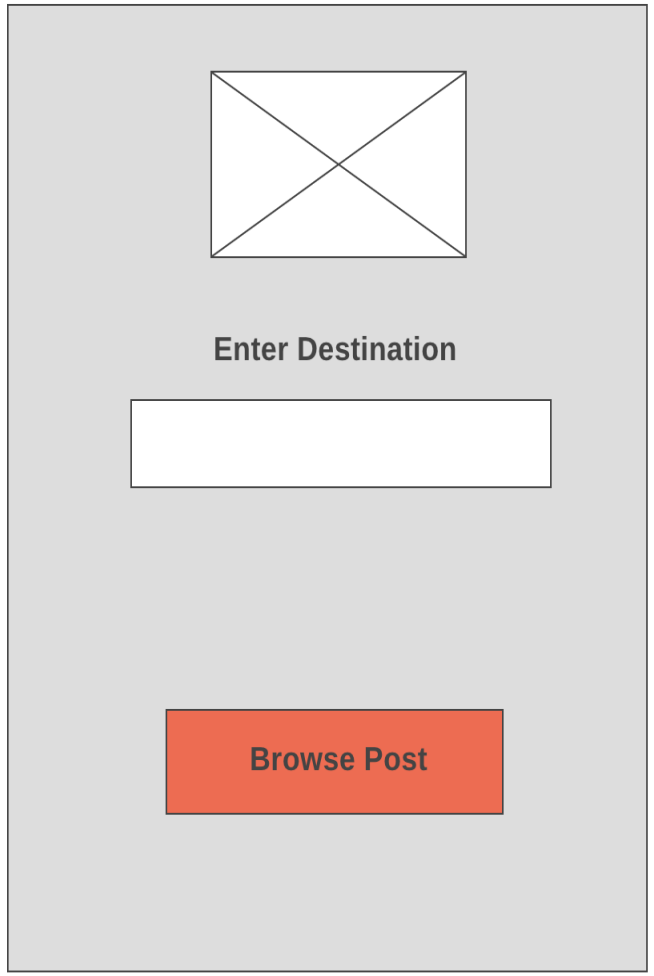


Home Page

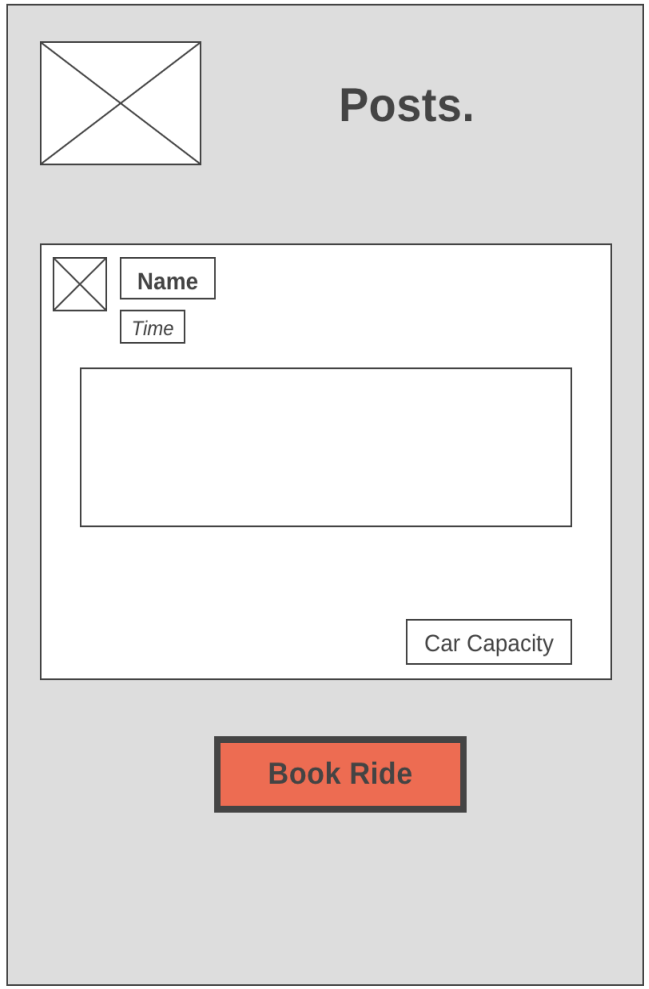


Rider Screen

Passenger Screen



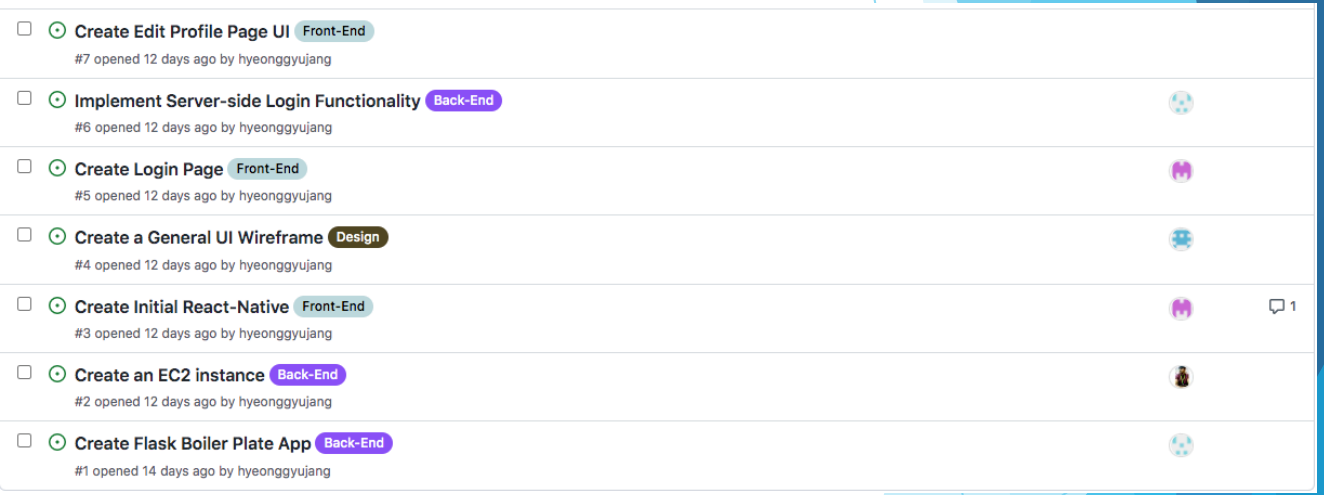
Post Screen

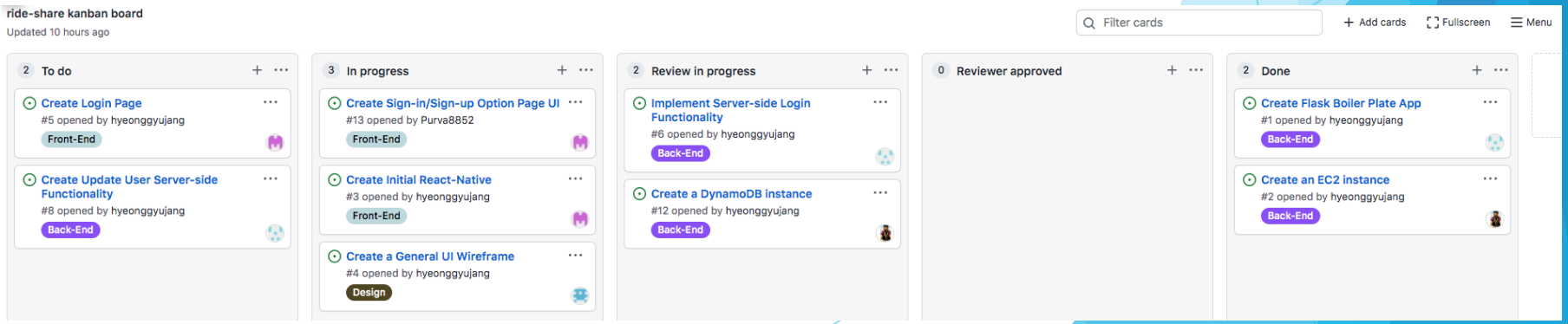


Project Management

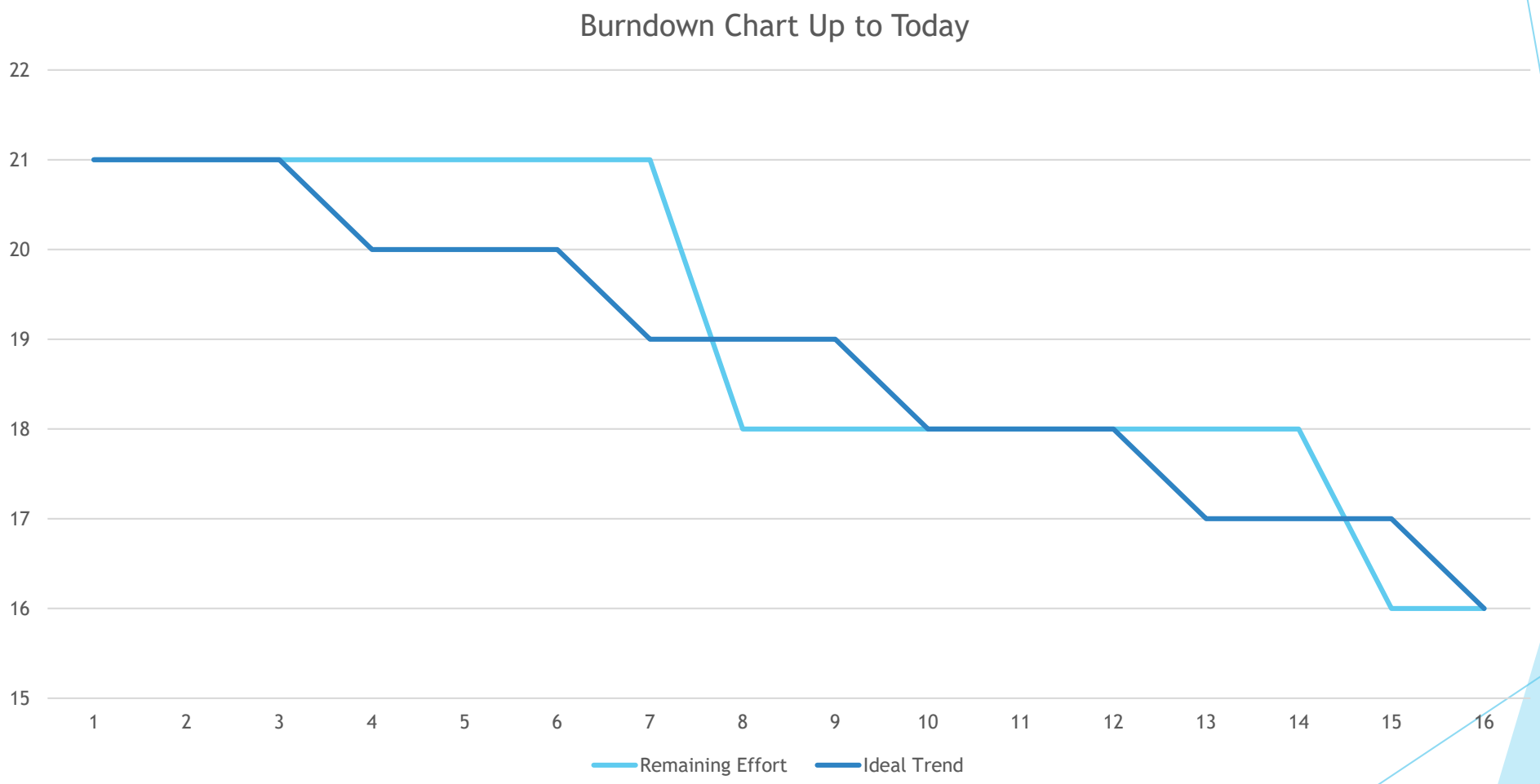
SCRUM

- Using a Kanban board provided by Github
- Issue created for each task
- No distinct sprints
- Started on Oct. 6
- Expected to end on Dec. 10
- Issues are not weighted

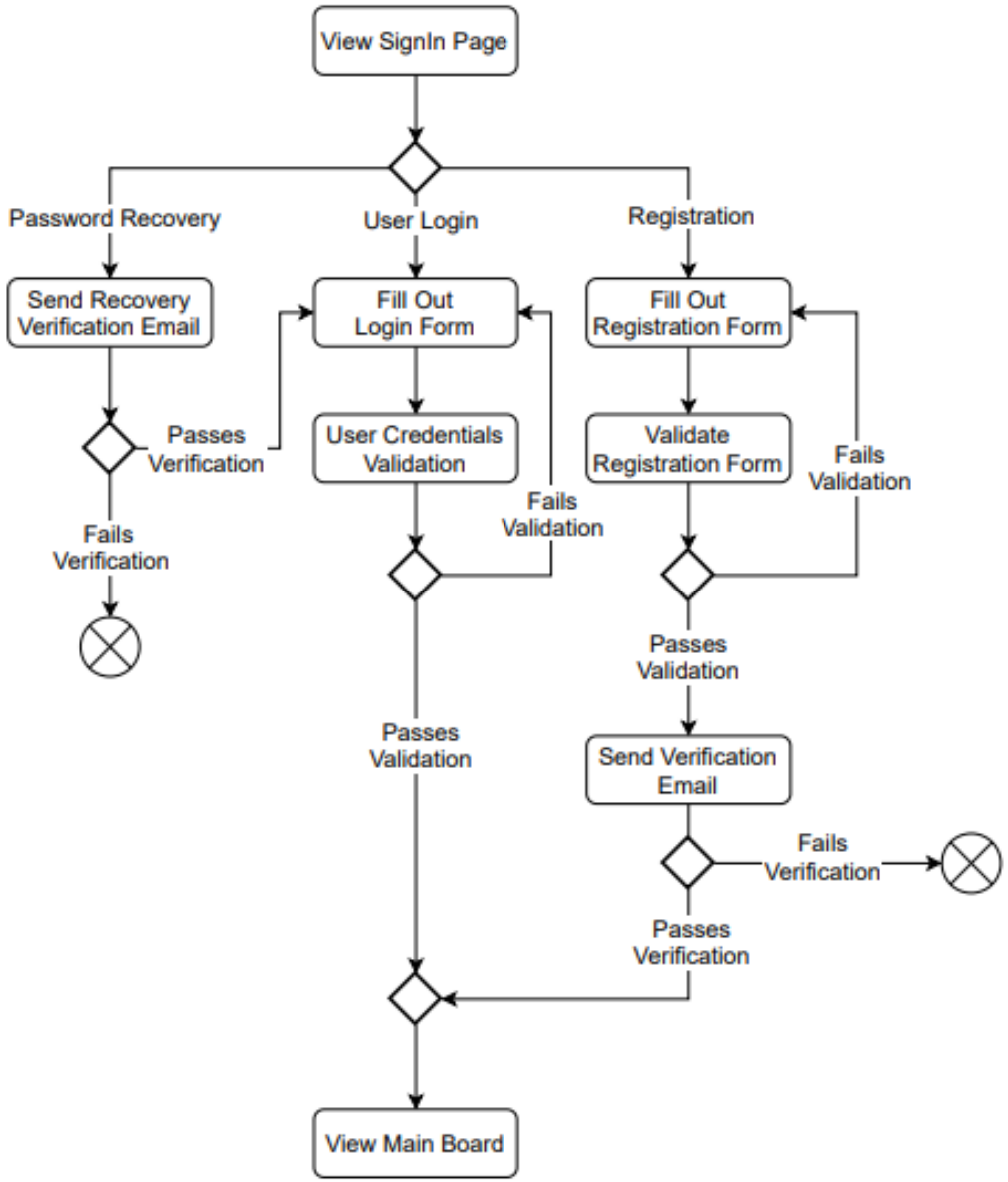




Burndown Chart



Sign-In Activity Diagram



Sign-In Use Case Description

Use Case Name: Sign In **ID:** 1 **Importance Level:** High
Primary Actor: User
Use Case Type: Functional, Essential

Stakeholders and Interests:
User: wants to sign in

Brief Description: This use case describes how a user can sign as an app user.

Trigger: User presses login button after filling out username and password.
Type: External

Relationships:
Associations: User
Include: username search, password validation
Extend: password reset
Generalization:

Normal Flow of Events:
1. The User opens the application.
2. The User provides username and password.
3. The System searches its database for a User with the provided username.
4. The System encrypts the provided password.
5. The System validates the encrypted password with the User password from the database.
6. The User logs into the app.

SubFlows:

Alternative/Exceptional Flows:
3a. The User is not found with provided username, the login request is rejected. (HTTP 400)
5a. The password doesn't match the encrypted password provided, the login request is rejected. (HTTP 403)

Requirements the use case description is tied to

Functional Requirement:

- only for GVSU students, faculty members
- shall have option to edit profile
- shall have option to post ride details
- Shall have option to comment on existing post

Front End Demo Video

- Splash Screen
- Login
- Sign-up

Thank You