



**Imam Mohammad Ibn Saud Islamic University**  
**College of Computer and Information Sciences**  
**Computer Science Department**  
**Bachelor of Computer Science**  
**1st Semester-2025/2026**



# Ride-Sharing Application

Presented By:

Ahmad Suliman Algadheeb 445018669  
Sultan Abdulraman Alanazi 445012456  
Yazeed Abdulrahman Alsalamah 444000868  
Naif Ibrahim Almohaimeed 445010735  
Turki Talal Alotaibi 445011243



# Outline

- Overview
- Project Scope
- Objectives
- Project Diagrams
- Architectural Pattern Design
- Scrum Methodology
- Our project samples
- Testing Sample

# Overview



*The Student Ride-Sharing Application is a project designed to make getting around campus easier and safer for everyone. It connects students heading to the same destination, allowing us to carpool and automatically split the cost. We built this platform for verified students using university emails to ensure a trusted community. It serves as a practical alternative to waiting for buses or paying for expensive taxi apps, helping students save both time and money.*

# Project Scope



## Our Scope:

The project aims to develop a Student Ride-Sharing Application that helps students find and share rides safely. The system includes features such as ride planning, automatic cost splitting, and student verification to ensure security. These features give the user a safe and affordable way to travel across campus, making student life easier and more connected.



# Objectives:

- Build a trusted community: Connect with real classmates for rides.
- Save money: Cut travel costs by splitting the bill automatically.
- Keep everyone safe: Only verified students can use the application.
- Save time: Find a ride quickly instead of waiting for the bus.
- Reduce traffic: Help the environment by sharing cars on campus.
- Flexible planning: Book a ride instantly or schedule it later.

## Target Audience:

We want to make college life easier by taking the stress out of transportation. Our goal is to create a safe network where students can help each other get to class on time while saving money.

## Vision Statement:

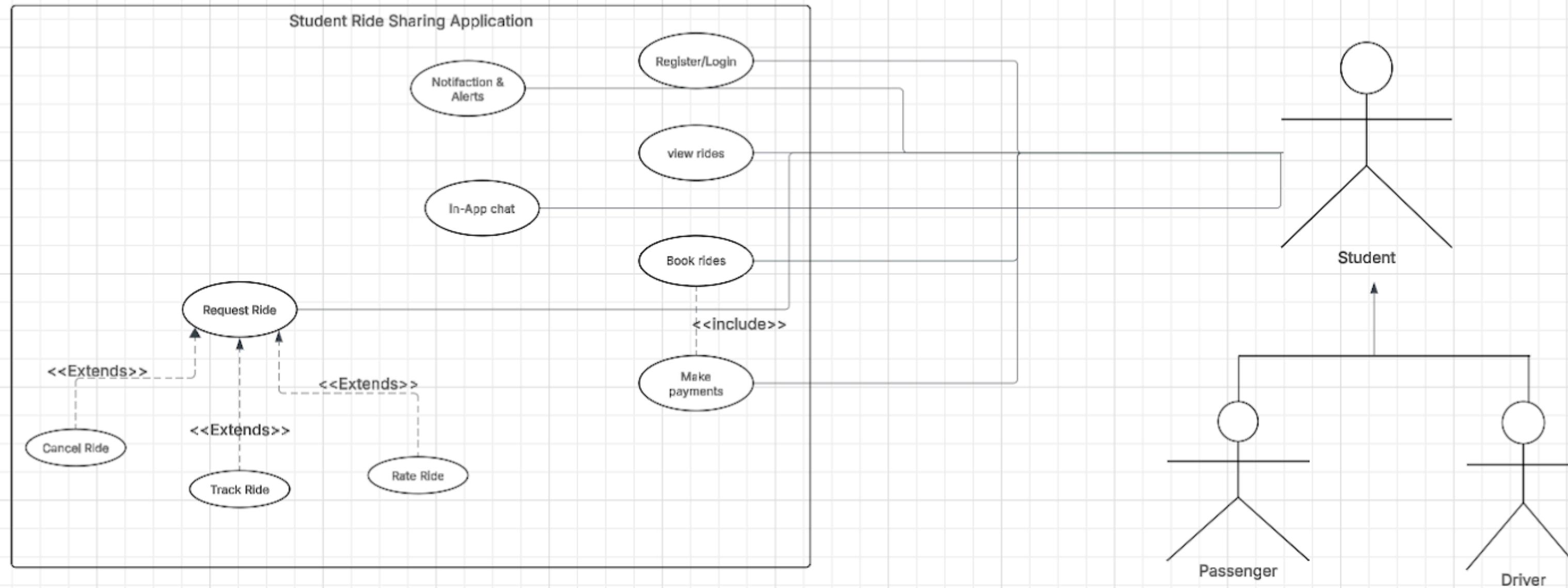
We want to make college life easier by taking the stress out of transportation. Our goal is to create a safe network where students can help each other get to class on time while saving money and making new friends.



# Our project diagrams

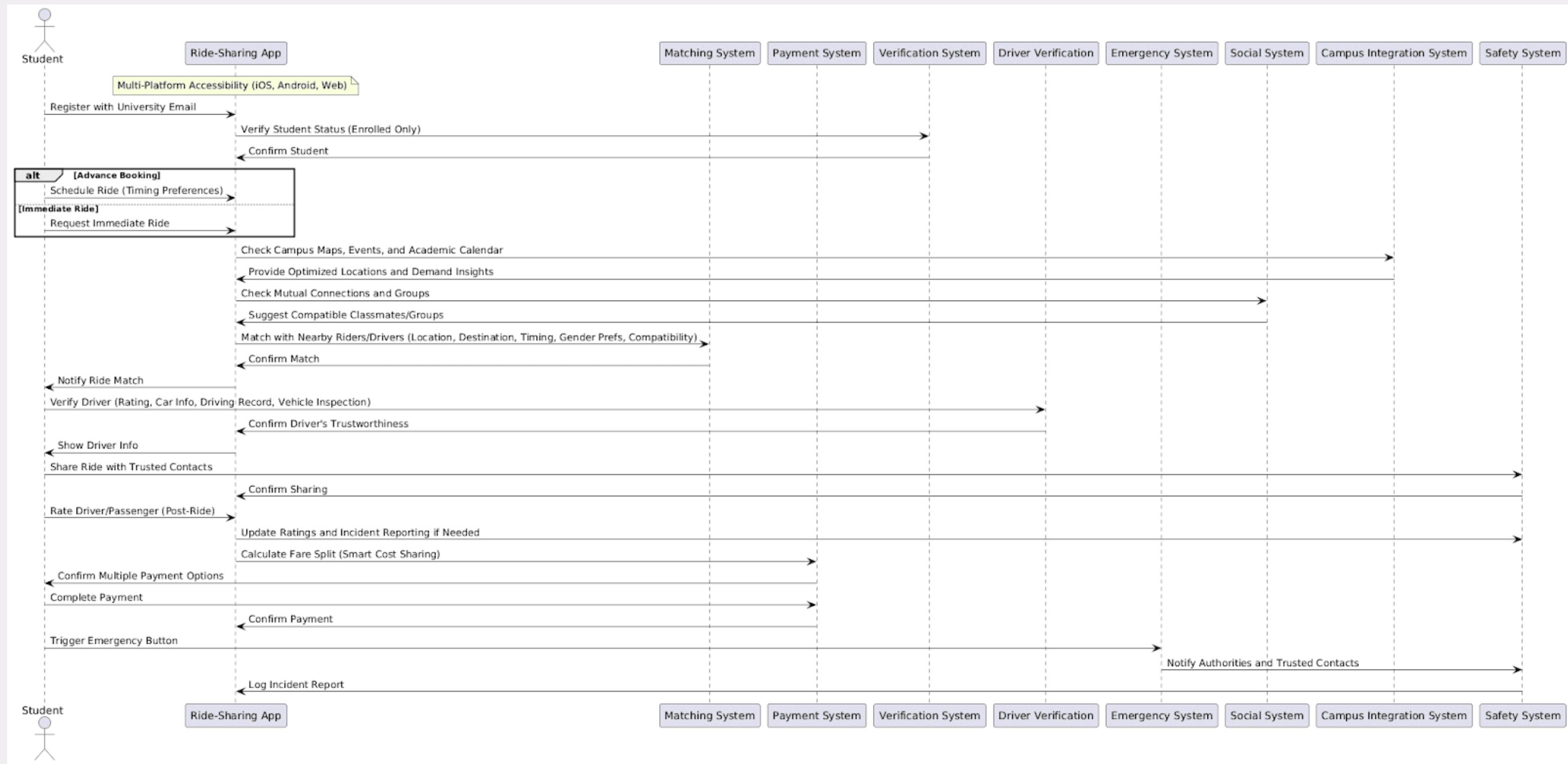
- Use Case Diagram
- Sequence Diagram
- Class Diagram
- Activity Diagram

# Use Case Diagram

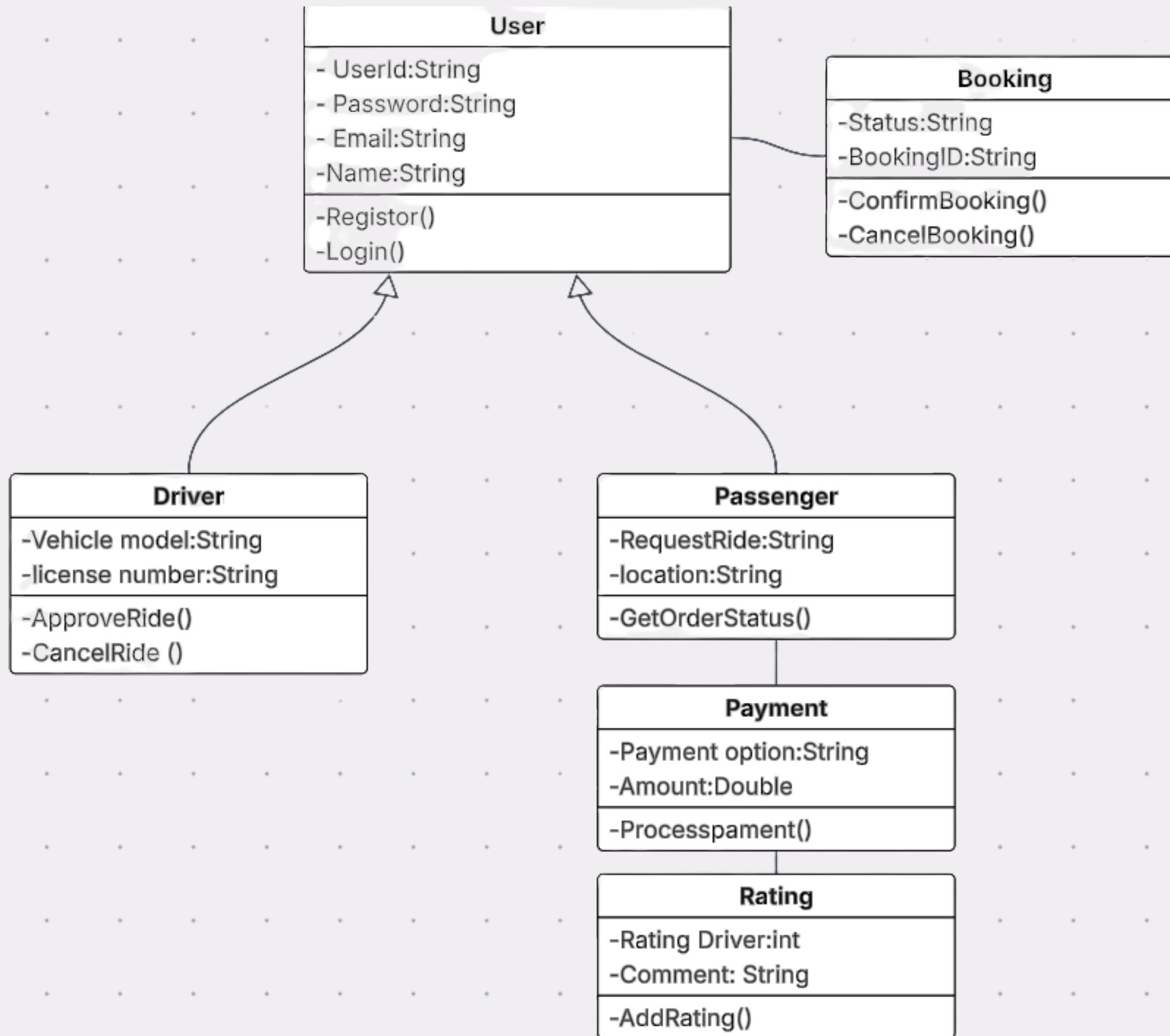




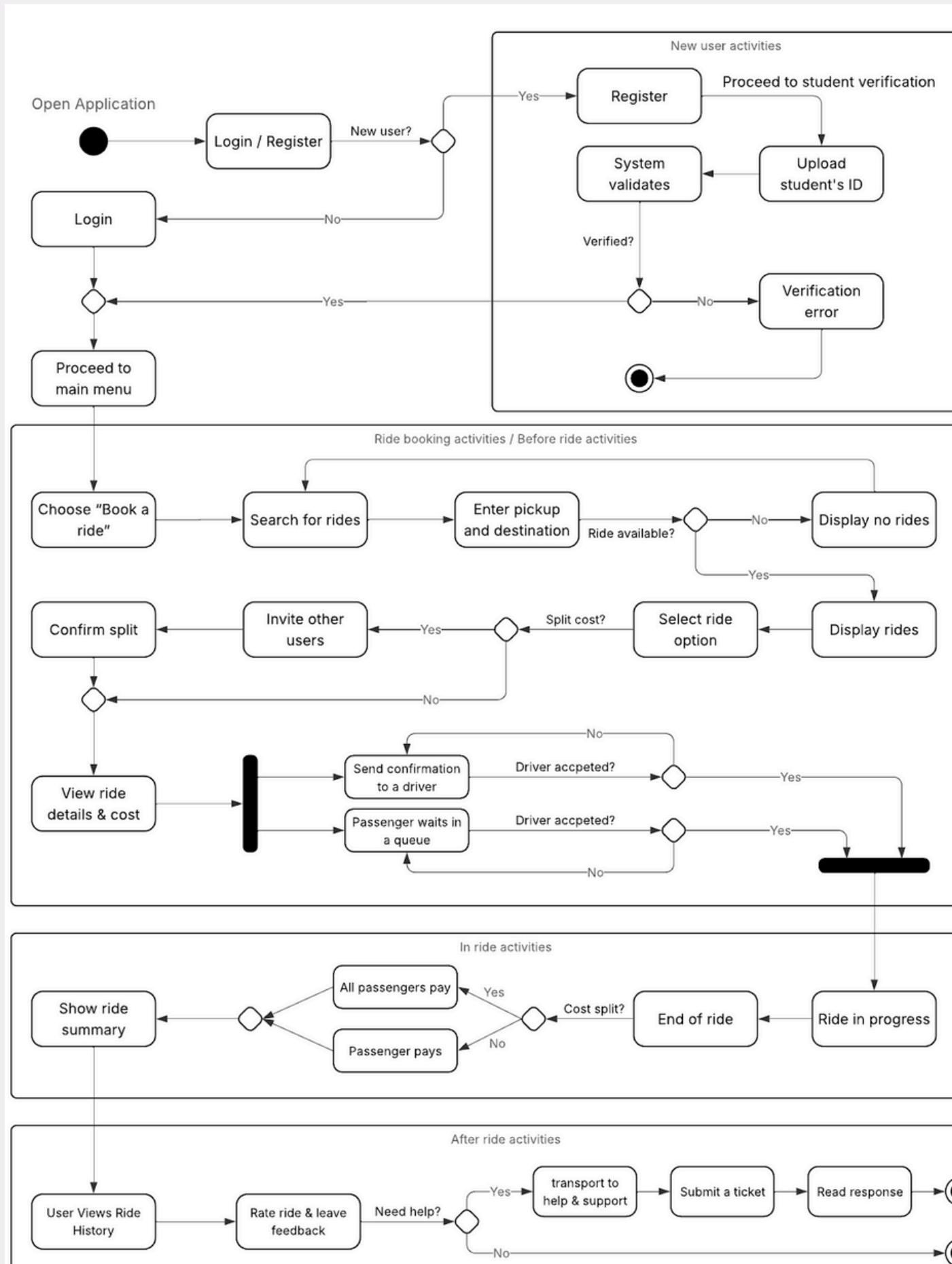
# Sequence Diagram



# Class Diagram



# Activity Diagram





# The Architectural Pattern Design

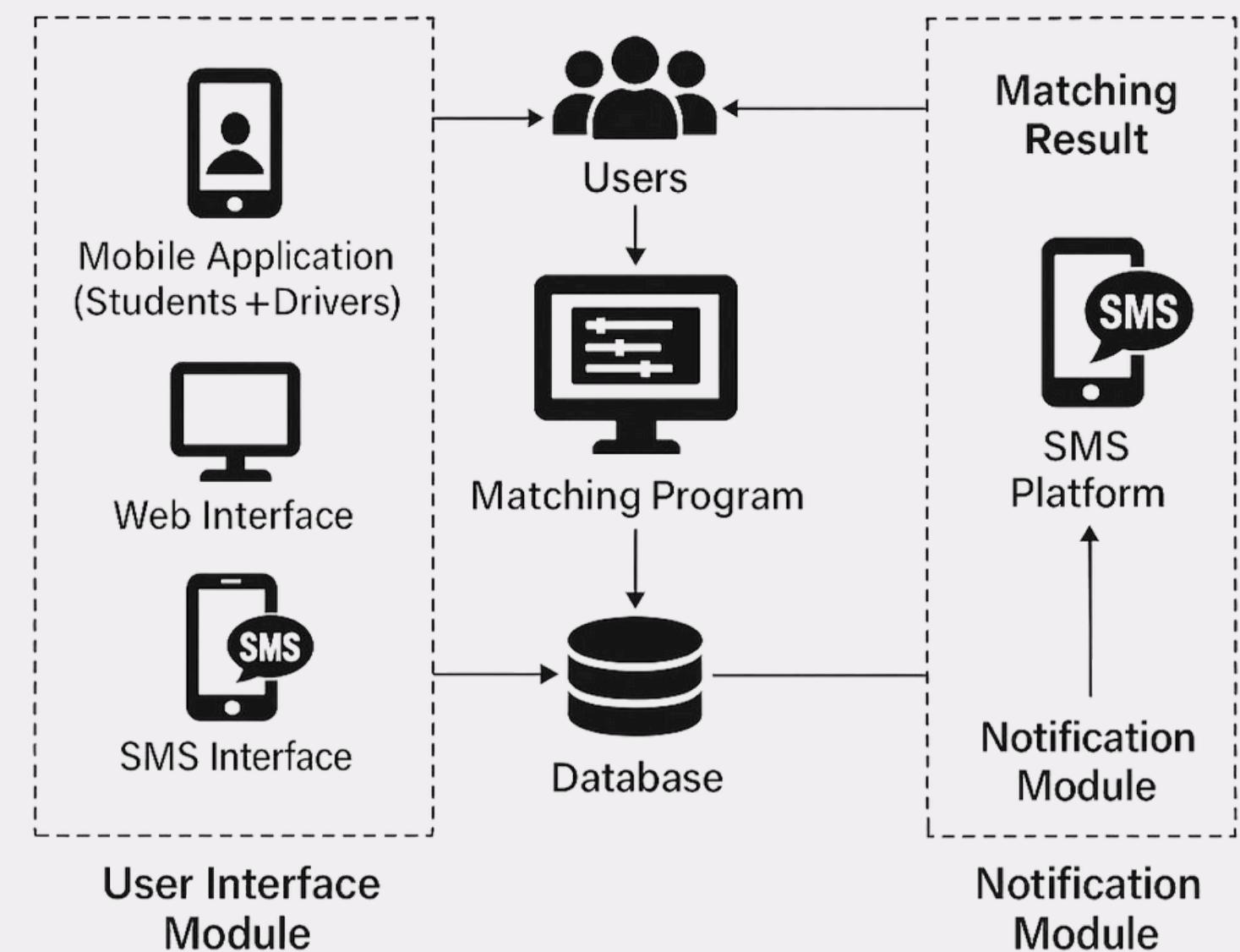
This design shows how users connect to the site using phones or computers.

They register, log in, browse events, and view details with images. Organizers can add or remove events. Users are able to filter events by category like food or culture.

The server tracks user activity to suggest similar events. Reviews and ratings are supported.

Users can also buy tickets online.

We use a Client-Server Architecture where the website requests data from the server, which gets it from the database.





# Scrum Methodology in Our Project

- Scrum is an Agile method with short sprints and daily teamwork.
- Roles: Product Owner (sets goals), Scrum Master (guides team), Developers (build).
- Artifacts: Product Backlog, Sprint Backlog, Increment.
- Sprint Cycle: Plan, Meetings, Review.
- Tools: Excel.
- Challenges: Communication and task estimation.
- Lessons: Better planning, team coordination, flexibility.
- Scrum helped keep the work clear and organized.

	A	B	C	D	E	F	G
1	Sprint Number	User Story ID	User Story Title	Brief Description	Additional Information	Priority	Status
2	1	S1	User Registration & Authentication	As a student, I want to register and log in to the app.		1-high	Done
3	1	S2	Student Verification Module	As an admin, I want to verify student identities and enrollment so that only legitimate users can use the app.		1-high	Done
4	2	S3	Ride Creation & Management	As a driver, I want to create, manage, and cancel rides.		1-high	Done
5	2	S4	Ride Matching & Search	As a passenger, I want to search and match with available rides based on my location.		1-high	Done
6	2	S5	Booking & Confirmation	As a passenger, I want to book a seat and receive confirmation details so that I can travel comfortably.		2-medium	Done
7	1	S6	Profile Management	As a student, I want to edit my profile information and upload a photo so that other users can recognize me.		1-high	Done
8	3	S7	Payment	As a passenger, I want to automatically split the cost and pay securely so that I can travel without cash.		1-high	Done
9	3	S8	Communication (Chat & Notifications)	As a student (driver or passenger), I want to communicate with others via chat and notifications.		2-medium	Done
10	3	S9	Safety & Trust Features	As a student, I want to have safety options such as emergency alerts, ratings, and trust scores.		2-medium	Done
11	3	S10	Campus Map & Navigation	As a student, I want to use an in-app campus map and navigation system so that I can get around easily.		2-medium	Done
12	3	S11	Admin Dashboard & Data Management	As an admin, I want to manage user accounts and data.		2-medium	Done
13	2	S12	Ride History & Reviews	As a passenger or driver, I want to view past rides and leave reviews so that I can evaluate services.		3-low	Done
14	3	S13	Help & Support Center	As a user, I want to access FAQs and contact support so that I can resolve problems quickly.		3-low	Done



# Our project samples

# Interface



**Student Ride Sharing App**

[Log In](#) [Sign Up](#)

# Share Rides. Save Money. Build Community.

Connect with verified students for safe, affordable rides across campus and beyond

[Get Started](#) [Learn More](#)

✓ 10,000+ rides shared ✓ Verified students only ✓ Trusted by thousands

# Interface



**Student Ride Sharing App**

Log In    Sign Up

## How It Works

Getting started is simple. Join thousands of students saving money and making connections.

**Sign Up & Verify**  
Create your account with your university email. Join a trusted community of verified students.

**Find or Offer Rides**  
Search for rides that match your schedule or create your own ride as a driver.

**Split Costs Easily**  
Securely pay your share and save money. Automatic cost splitting makes it hassle-free.

# Home Page



**Student Rides**  
Student Ride-Sharing

Navigation

- Home
- Find Rides
- Offer Ride
- My Rides
- Map
- Messages
- Safety
- Help
- Profile

Welcome back, naif!

Here's what's happening with your rides

0 As Driver    0 As Passenger    0.0 Driver Rating    0.0 Passenger Rating

**Find a Ride**  
Search for available rides that match your destination and schedule  
[Search Rides](#)

**Offer a Ride**  
Share your trip and earn money by offering rides to fellow students  
[Create Ride](#)

**Your Offered Rides** [View All](#)

No upcoming rides offered  
[Create Your First Ride](#)

**Your Booked Rides** [View All](#)

No upcoming bookings  
[Find a Ride](#)

**Complete Your Verification**  
Verify your university email to unlock all features and build trust in the community  
[Complete Profile](#)

NI naif ibra  
boredod439@bamsrad.com

[Logout](#) [Start](#)

# Offer a Ride



**Offer a Ride**

Share your trip and earn money by offering rides to fellow students

**Route Details**

Origin  
Select starting point

Destination  
Select destination

**Schedule**

Departure Date & Time  
mm/dd/yyyy --:-- --

When do you plan to depart?

**Pricing & Capacity**

Available Seats  
1 seat

How many passengers can you accommodate?

Price Per Seat (SAR)  
0

Set a fair price to split costs

**Additional Information**

Notes (Optional)  
Add any additional details about your ride...

Share any preferences or details passengers should know

# Rides View



## My Rides

Manage your offered rides and bookings

Offered Rides (2) Booked Rides (2)

**Ahmed Al-Rashid**  
Driver • 2 rides confirmed

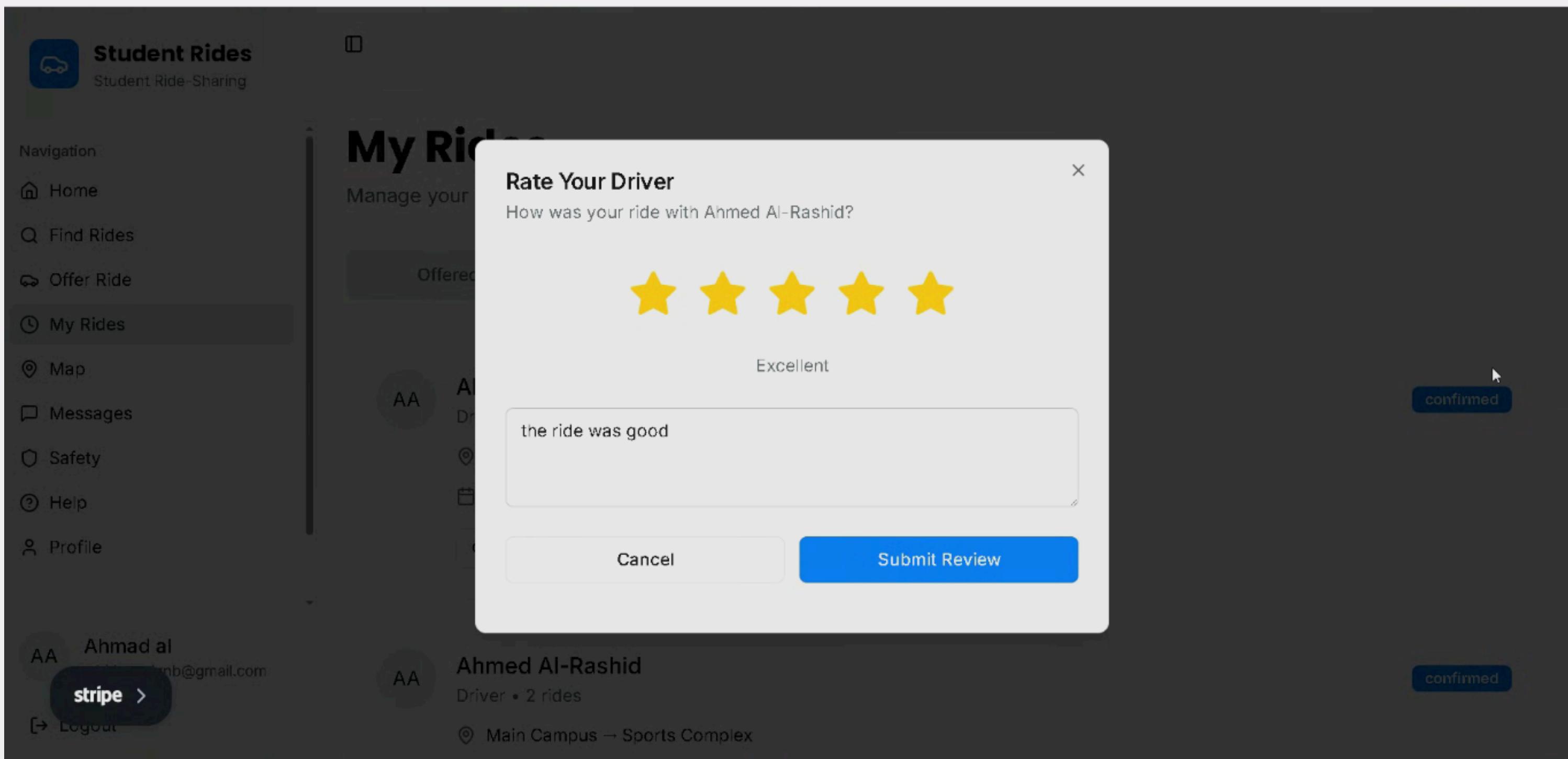
📍 Main Campus → Sports Complex  
📅 Tue, Dec 16 • 11:00 AM    1 seat    15.00 SAR

[Cancel Booking](#) [Rate Driver](#)

**Ahmed Al-Rashid**  
Driver • 2 rides confirmed

📍 Main Campus → Sports Complex  
📅 Tue, Dec 16 • 11:00 AM    1 seat    15.00 SAR

# Review



# Help Center



**Student Rides**  
Student Ride-Sharing

Navigation

- Home
- Find Rides
- Offer Ride
- My Rides
- Map
- Messages
- Safety
- Help**
- Profile

NI naif ibra  
boredod439@bamsrad.com

[Logout]

Help Center

Find answers and get support

Frequently Asked Questions

Search our FAQ for quick answers

Search FAQs...

No FAQs available yet

Submit a Support Ticket

Can't find what you're looking for? Contact us

Category: General Question

Subject: Brief description of your issue

Message: Describe your issue in detail...

Submit Ticket

My Support Tickets

test case	open
dkjhsl	Dec 7, 3:42 AM

feedback

# Messages

The screenshot shows the 'Messages' screen of the 'Student Rides' app. The left sidebar contains navigation links: Home, Find Rides, Offer Ride, My Rides, Map, Messages (which is selected), Safety, Help, and Profile. The main area displays 'Ride Conversations' for five different rides:

- Main Campus → Airport**  
Dec 16, 12:00 PM  
Driver: Mohammad Al-Saud
- Main Campus → Downtown**  
Dec 16, 1:00 PM  
Driver: Khalid Al-Nasser
- Main Campus → Library**  
Dec 16, 2:00 PM  
Driver: Omar Al-Farsi
- Main Campus → Train Station**  
Dec 16, 3:00 PM  
Driver: Yusuf Al-Jabri
- Main Campus → Shopping Mall**

A message from Ahmad al (1:53 PM) is shown in the conversation for the Main Campus → Airport ride:

hi 1:53 PM Ahmad A

A text input field at the bottom says "Messaging Mohammad Al-Saud about this ride" and "Ask the driver a question..." with a send icon.

# Admin Dashboard



**Admin Dashboard**  
Manage users, rides, and platform safety

**6** Total Users    **5** Verified    **32** Total Rides    **1** Active Alerts    **1** Open Tickets

Users    Alerts    Tickets    FAQs

### User Management

View and verify platform users

MA	Mohammad Al-Saud mohammad@imamu.edu.sa	Driver	Verified
KA	Khalid Al-Nasser khalid@imamu.edu.sa	Driver	Verified
OA	Omar Al-Farsi	Driver	Pending



# Testing Sample



# Testing Plan (login/Register)

Test Case ID	Description	Steps	Expected Result	Pass/Fail	Notes
1.1	Sign In as a New User	Go to /sign-in, enter unique username, click Sign In	Redirected to welcome page, user is logged in	Pass	Basic user-sign-in verified.
1.2	Sign In with Existing Username	Go to sign in, enter valid credentials click Login	Error “Username already exists” is shown	Pass	Duplicate username correctly handled.
1.3	Sign In with Valid Credentials	Go to /login, enter valid credentials click Login	Redirected to welcome page, user is logged in	Pass	Login functionality confirmed.
1.4	Sign In with Invalid Credentials	Error 'Invalid credentials shown'	Error "Invalid username or password' is displayed.	Pass	Error message displayed.



**Thank You For  
listening!**

**Any Questions?**