MEGA PROJECT PRESENTATION

BIKE BUDDY- BIKE POOLING (FOR STUDENTS)

GROUP MEMBERS

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PROBLEM STATEMENT

Students at KIT face challenges accessing education due to inadequate and unreliable transportation, leading to long walks and hindered academic performance. High costs and irregular schedules of public transport contribute to these difficulties.

SOLUTION

- We propose developing a solution that connects riders and passengers who share the same daily commute route to college.
- The solution's user-friendly interface will allow students to input their pick-up and drop-off locations, and connect with riders who can offer rides along their regular route.
- By utilizing existing resources, we can create a sustainable transportation system. Our solution also prioritizes student well-being by providing a safer and more secure transportation option.

OBJECTIVES

- User Accessibility
- Promote sustainable transportation
- Location Tracking
- Safety Measures
- Data Privacy

INNOVATIVENESS

- Our solution's security features also provide peace of mind for parents and students alike, knowing that they are travelling with people from their own college community.
- We have created a transportation system that empowers students to take control of their transportation needs.
- Passenger security can be maintained by recommending riders who are close friends and following the hierarchy batch->division->department.
- We are committed to providing a reliable, cost-effective, and secure transportation option that prioritizes the needs of students and improves their overall educational outcomes

MODULES

- User Registration

- Ride Request Management

- Matching and Scheduling

- Security and Privacy

REQUIREMENT ANALYSIS

NON-FUNCTIONAL

- Usability
- Security
- Performance
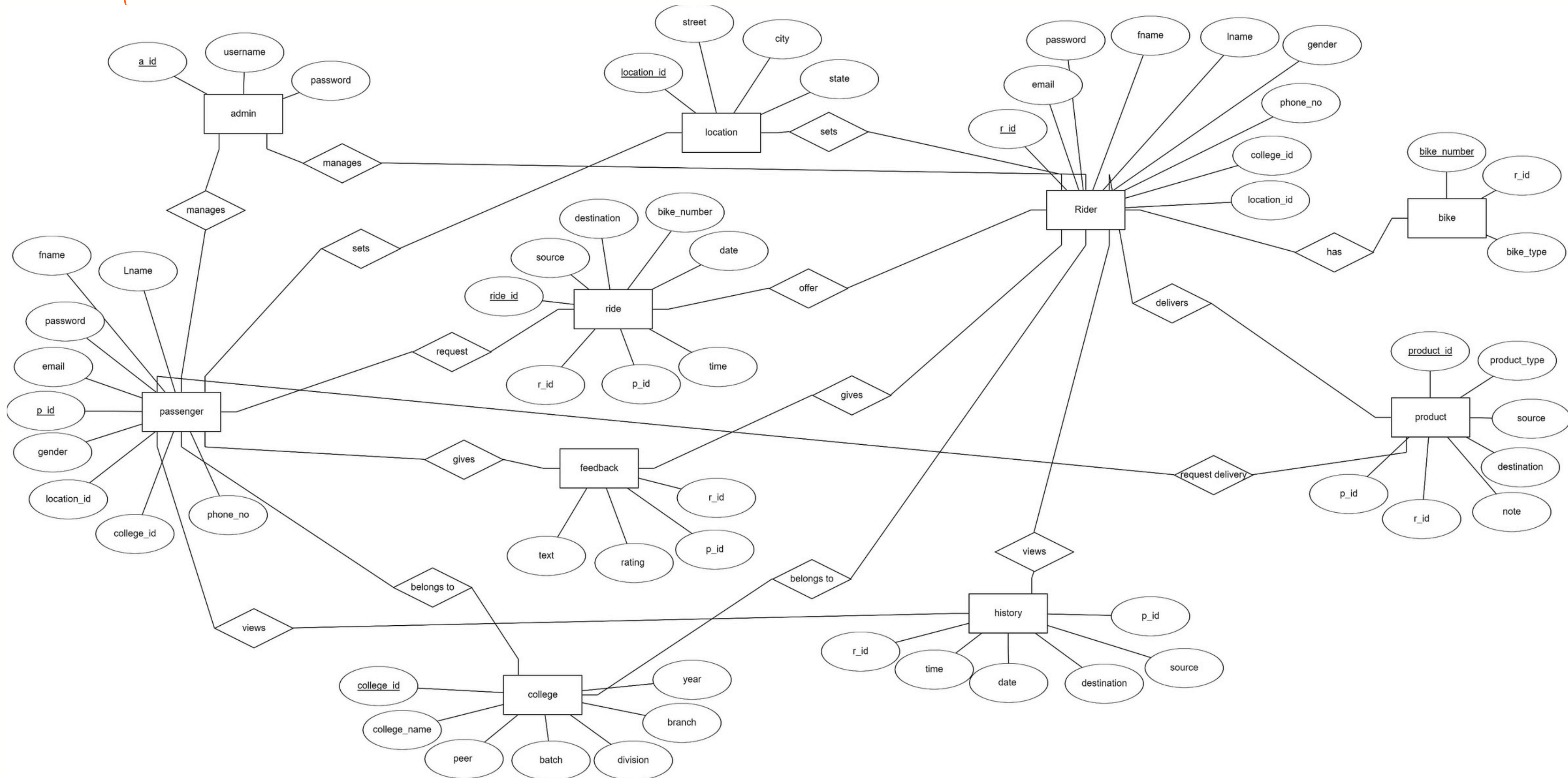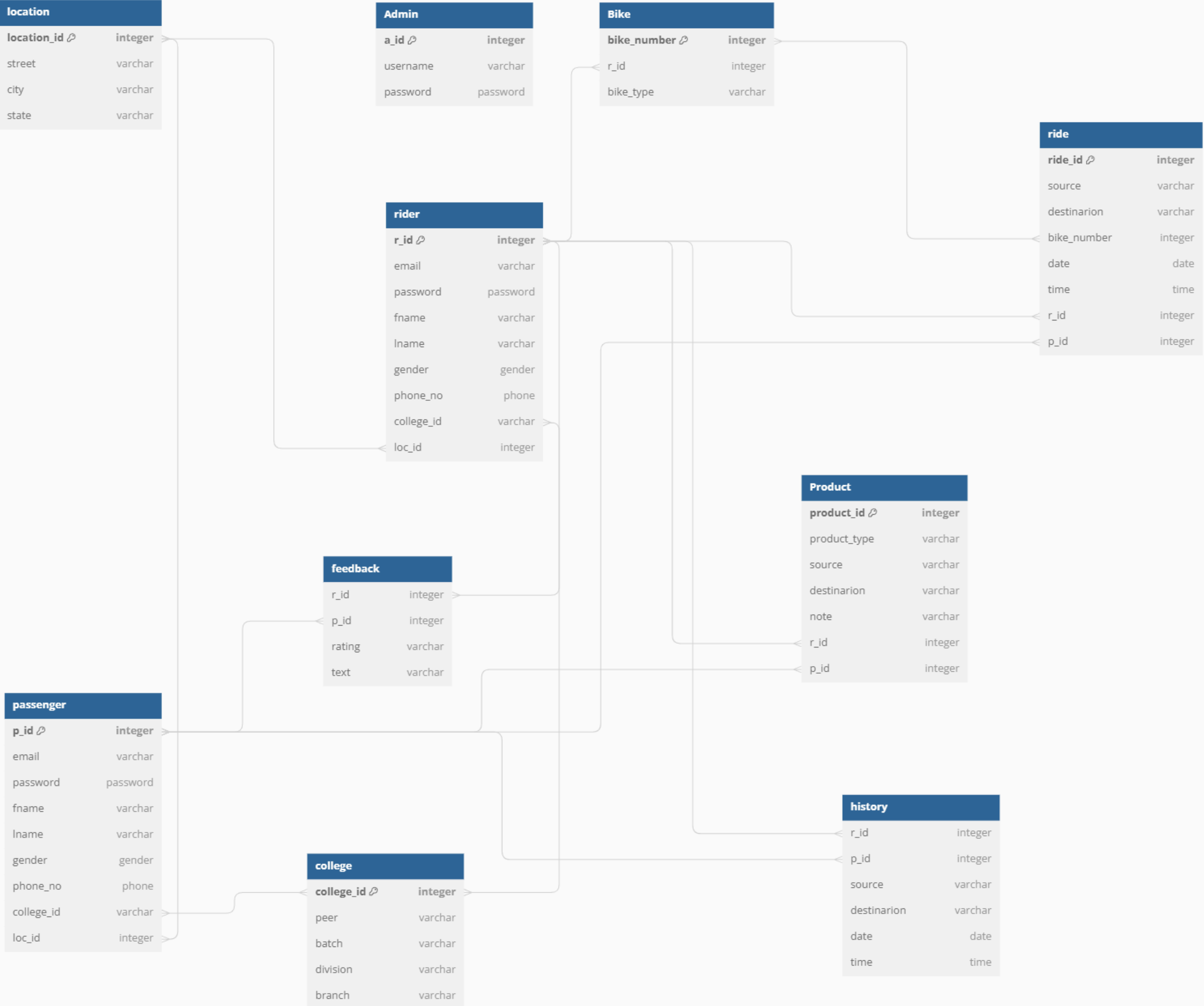- Scalability
- Reliability
- Compatibility

Functional

Passenger - 1. Request ride
2.Set Location

Rider - 1.Offer Ride
2.Set Location

ER DIAGRAM

Schema Diagram
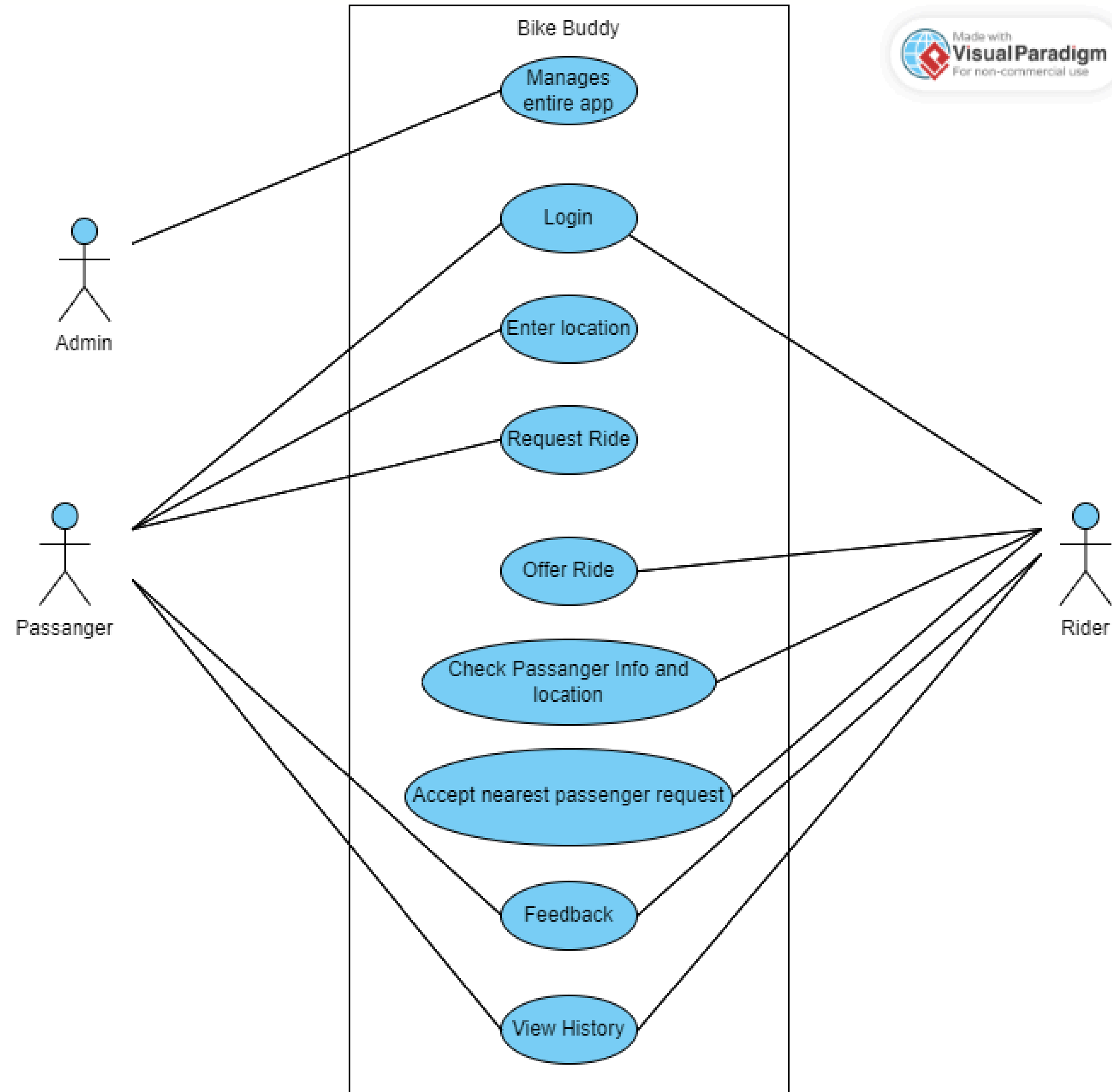
location

location_id 🔗	integer
street	varchar
city	varchar
state	varchar

Admin

a_id 🔗	integer
username	varchar
password	password

Bike

bike_number 🔗	integer
r_id	integer
bike_type	varchar

ride

ride_id 🔗	integer
source	varchar
destinarion	varchar
bike_number	integer
date	date
time	time
r_id	integer
p_id	integer

rider

r_id 🔗	integer
email	varchar
password	password
fname	varchar
lname	varchar
gender	gender
phone_no	phone
college_id	varchar
loc_id	integer

Product

product_id 🔗	integer
product_type	varchar
source	varchar
destinarion	varchar
note	varchar
r_id	integer
p_id	integer

feedback

r_id	integer
p_id	integer
rating	varchar
text	varchar

passenger

p_id 🔗	integer
email	varchar
password	password
fname	varchar
lname	varchar
gender	gender
phone_no	phone
college_id	varchar
loc_id	integer

college

college_id 🔗	integer
peer	varchar
batch	varchar
division	varchar
branch	varchar

history

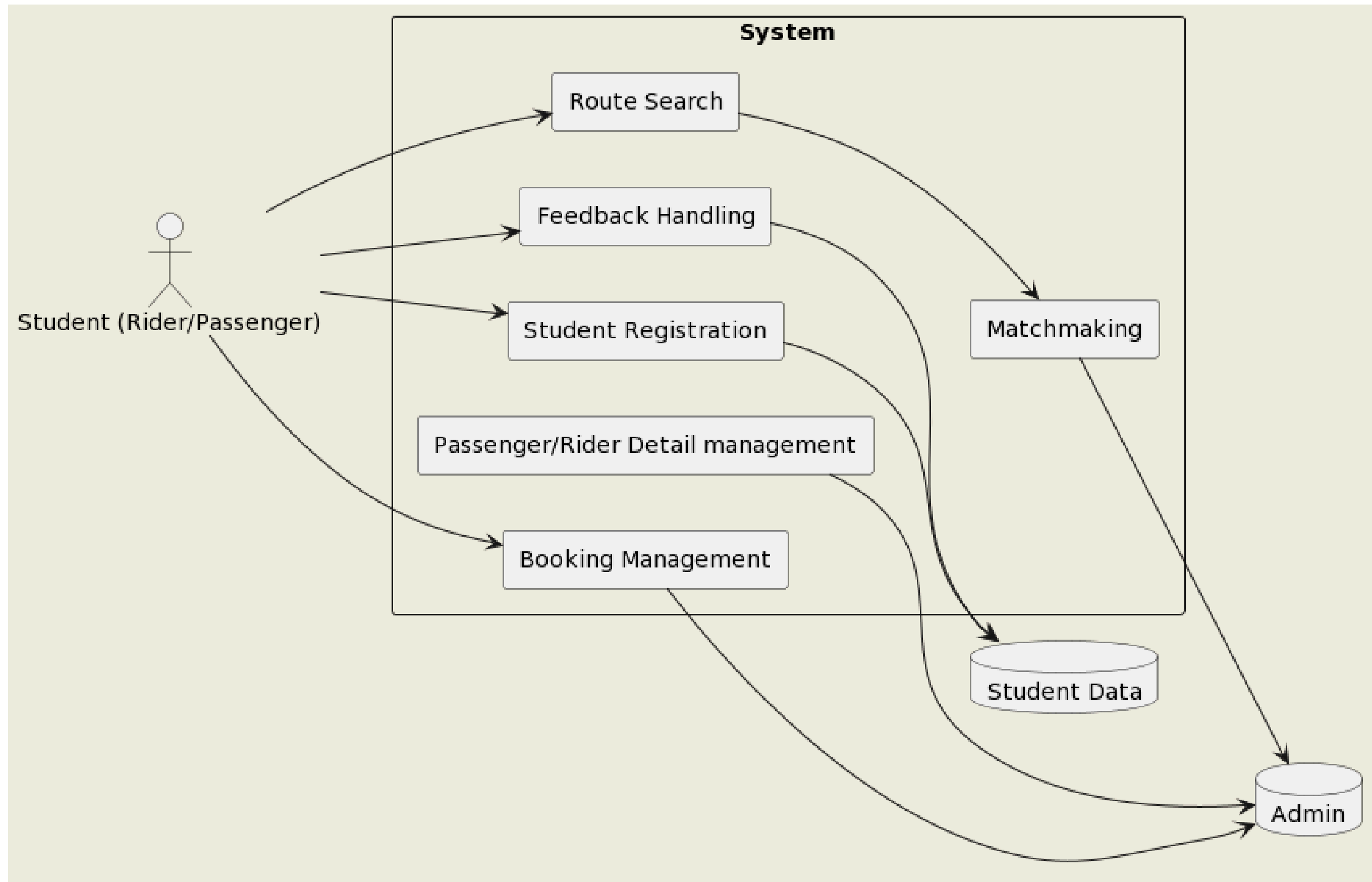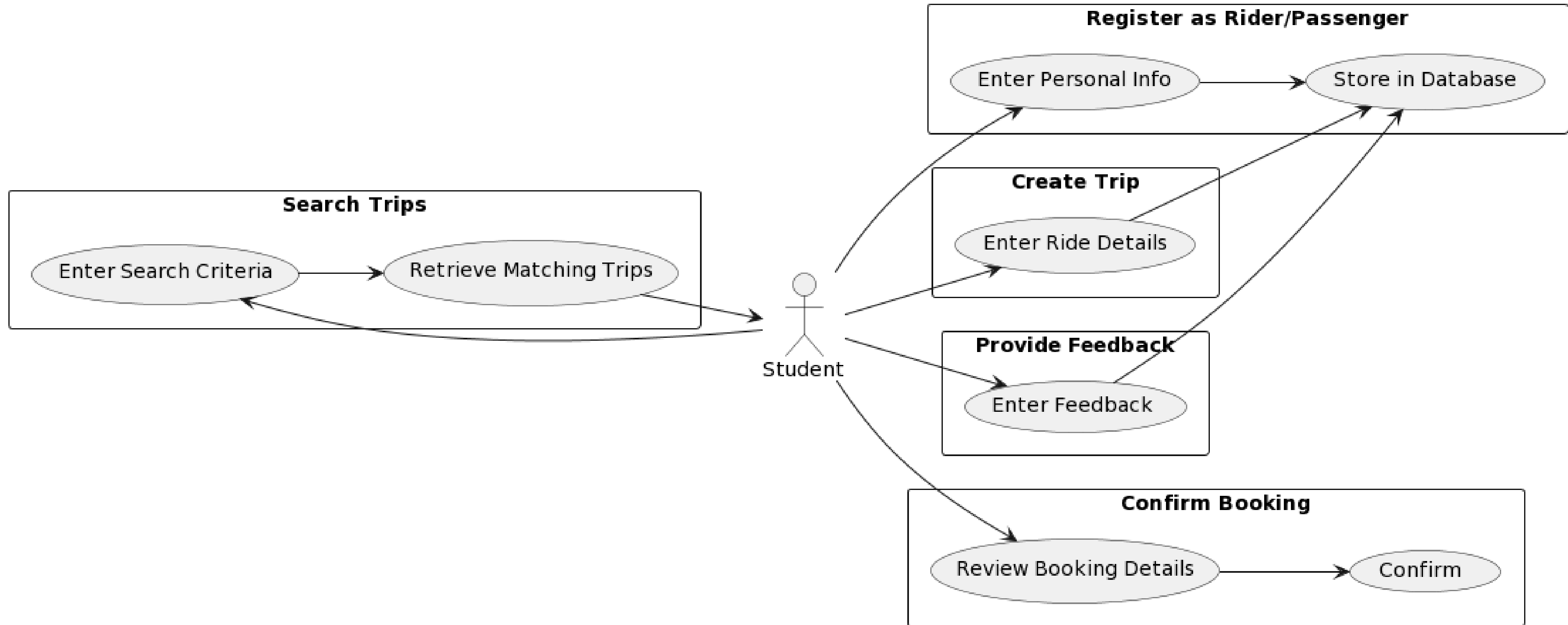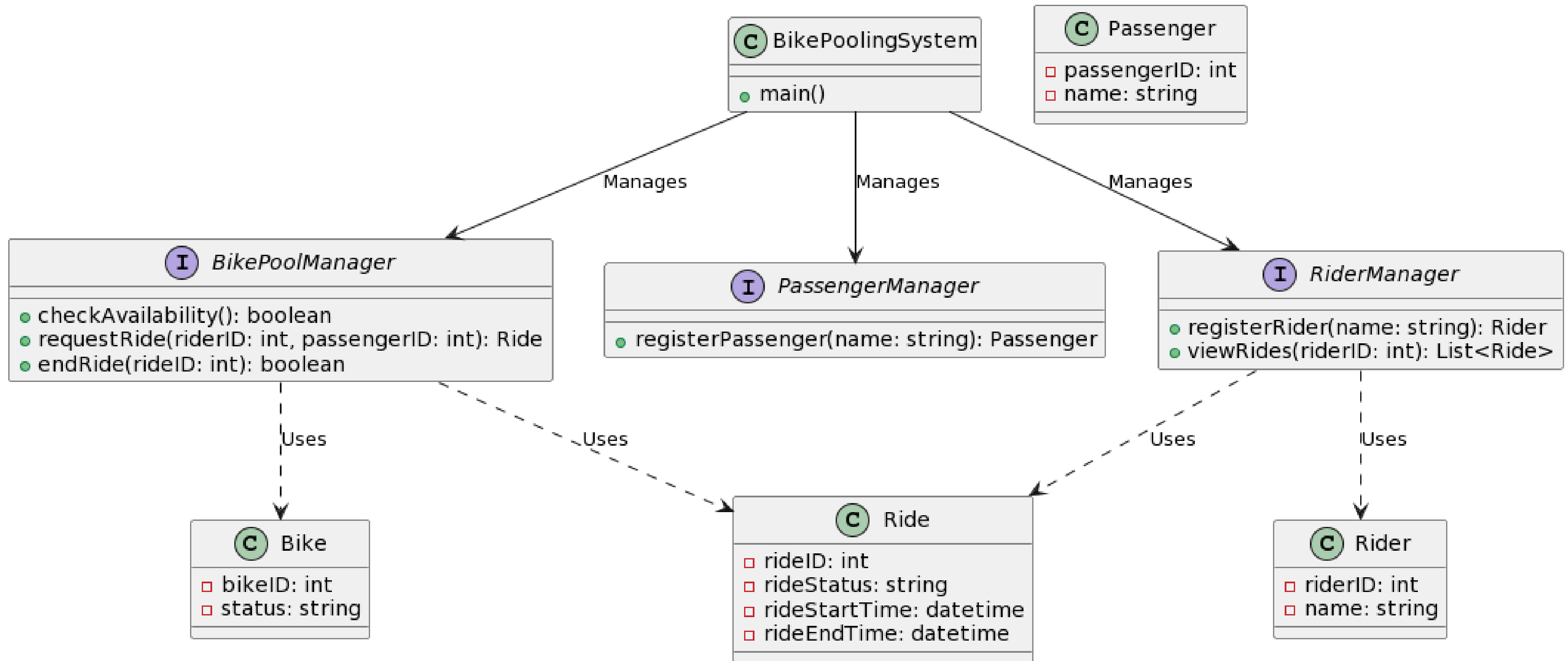|	
r_id	integer
p_id	integer
source	varchar
destinarion	varchar
date	date
time	time

UseCase Diagram

DFD level 0

DFD level 1

DFD level 2

Logout

Login Page

✉ Email

🔒 Password

SIGN IN
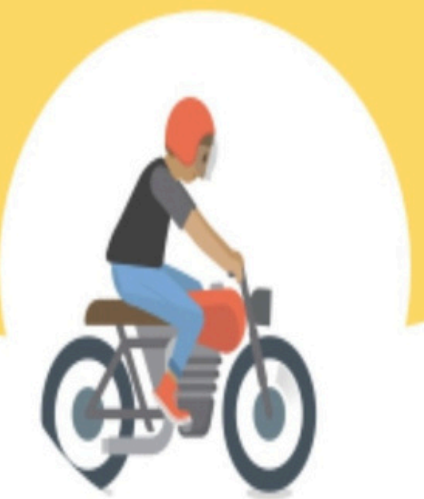
Not a Member Yet ?

SIGN UP

Sign Up Page

back

User Name

Contact Number

Email ID

Password

Department
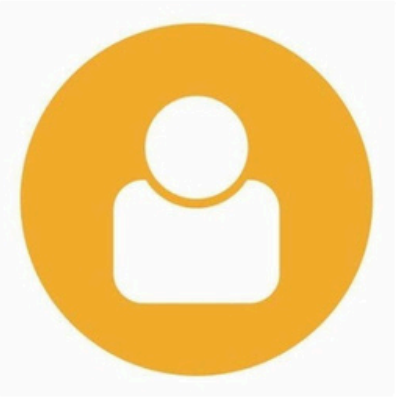
Division

Batch

Sign Up

Dashboard Page

vinay

Meet Again !

LOGOUT

Bookings

OFFER RIDE

BOOK RIDE

Selecting Source and destination

Leaving From

Going To

Today

CONTINUE

Ride details
For Riders

Rides For You...

From	To
kit	rajarampuri

omkar   CSE   C   **ACCEPT**

Map

Ride details
For passengers

Rides For You...

From	To
kit	rajarampuri

vinay   CSE   C   **ACCEPT**

Map

Map Services Used

Places API

Google Enterprise API

Get detailed information about 100 million places
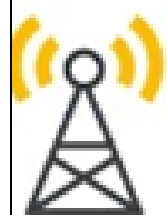
MANAGE ✓ API Enabled
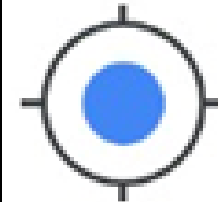
Geocoding API

Google Enterprise API

Convert between addresses and geographic coordinates.

MANAGE ✓ API Enabled

Geolocation API

Google Enterprise API

Location data from cell towers and WiFi nodes
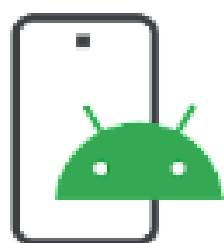
MANAGE ✓ API Enabled

Directions API

Google Enterprise API

Directions between multiple locations.

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Maps SDK for Android

Google

Maps for your native Android app.

MANAGE ✓ API Enabled

Maps JavaScript API

Google

Maps for your website

MANAGE ✓ API Enabled

THANK YOU