

# Inter-city Car Pooling System



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# Introduction

The online carpooling system is a platform designed to connect individuals who are traveling in the same direction so they can share a ride together. It aims to provide a more sustainable and cost-effective transportation option by reducing the number of vehicles on the road and optimizing the use of existing resources.

# Project Architecture

Used for

- User interfacing
- Basic data validation

Front end  
Layer

Technologies used

- HTML, CSS
- Javascript
- ReactJS
- JSON

Used for

- Server side validation
- Response handling
- Business Logic
- Database operations

Server Layer

Technologies used

- Springboot
- Hibernate

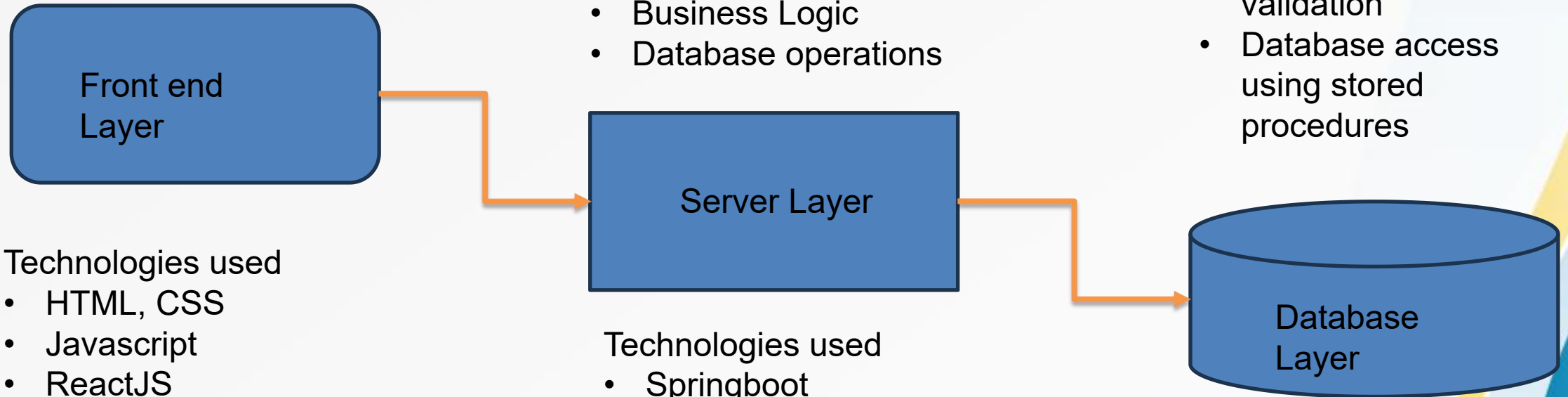
Used for

- Permanent data storage
- Database level validation
- Database access using stored procedures

Database  
Layer

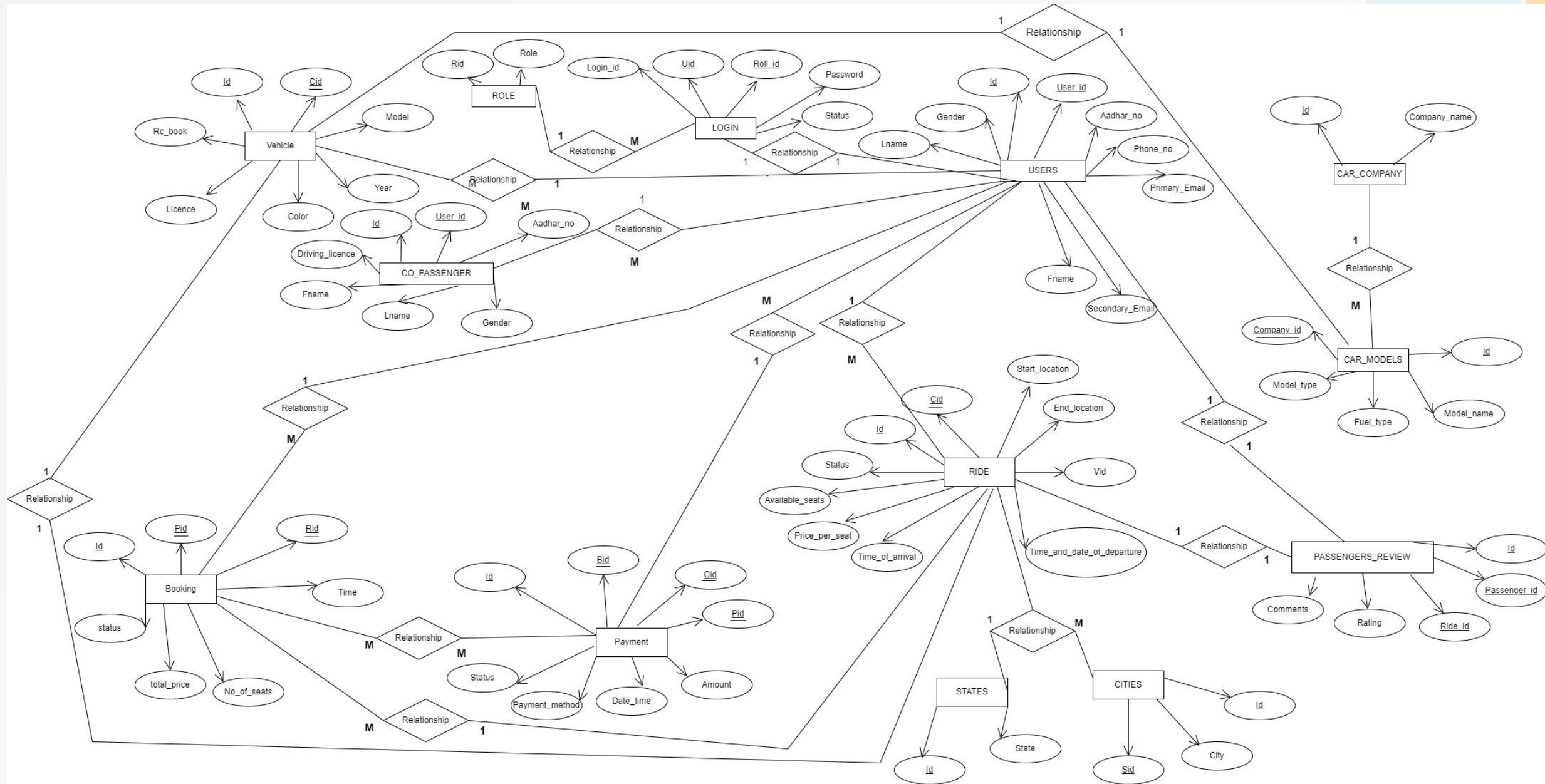
Technologies used

- MYSQL



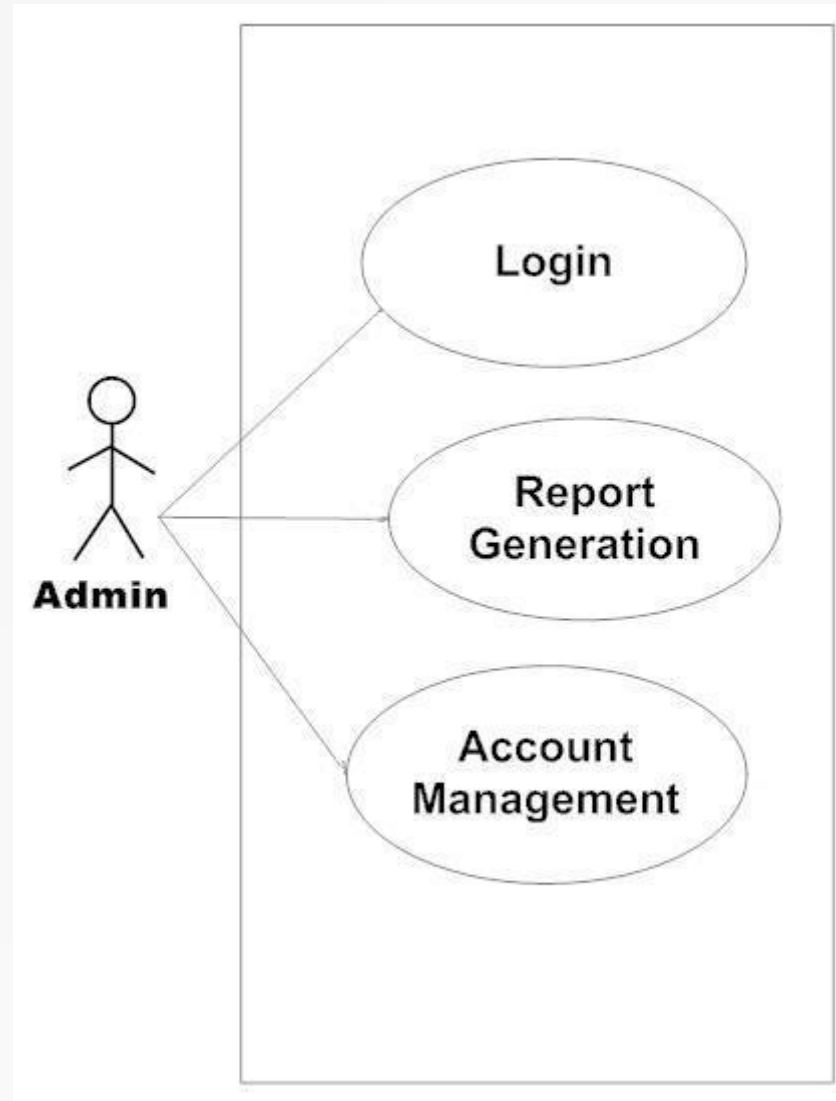


# ER Diagram

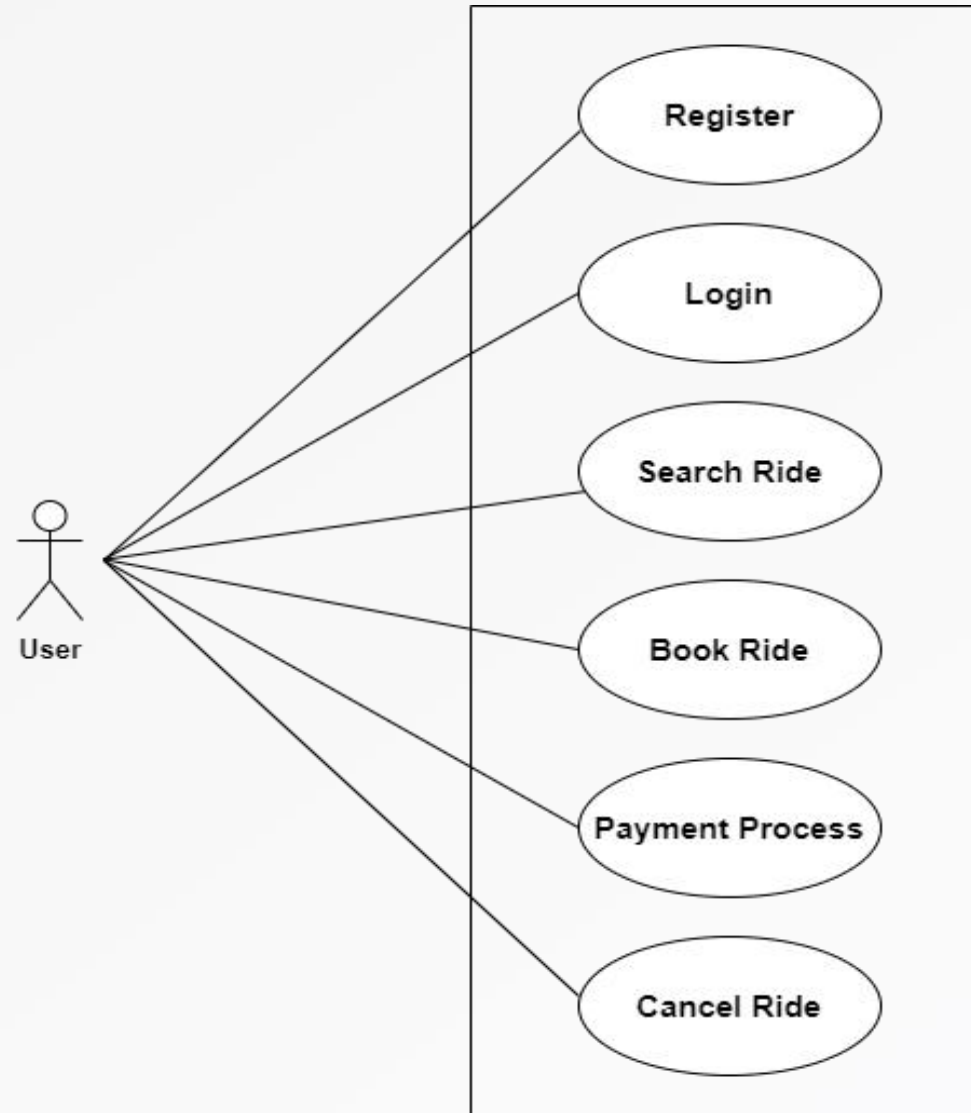


# Use Case Diagram

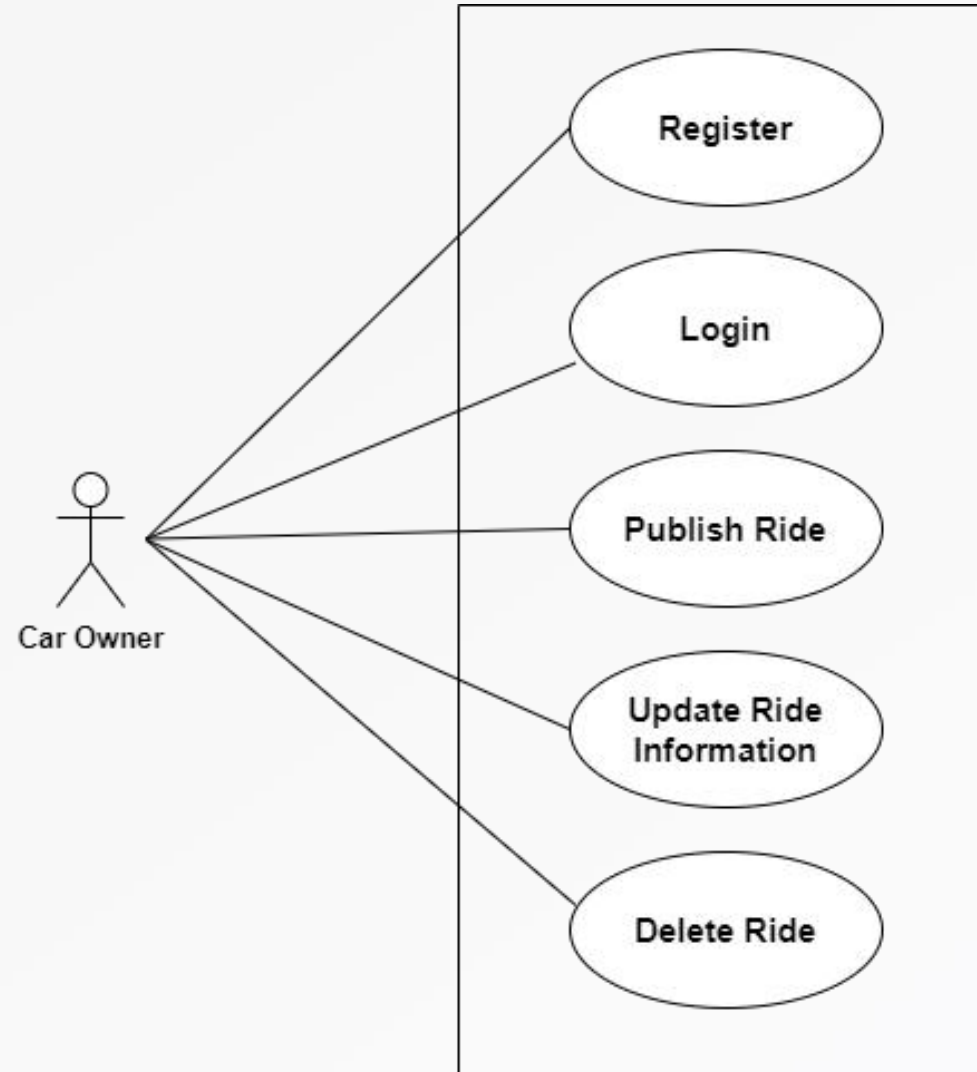
## 1. Admin



## 2. User



### 3. Car Owner





# Technology platform used

- **Technologies used :**

HTML, CSS, Javascript, ReactJS, JSON, Springboot, DotNet MVC Core, Hibernate, MySQL

- **Reason :**

HTML, CSS and javascript are used for frontend part for static web pages.

React JS is used for rendering the dynamic web pages and to create a single page application where only particular part of web page is rendered without altering complete web page.

Springboot is used for server side processing where in connection with database is established from server and required data is manipulated and sent to client side.

# Roles and responsibilities

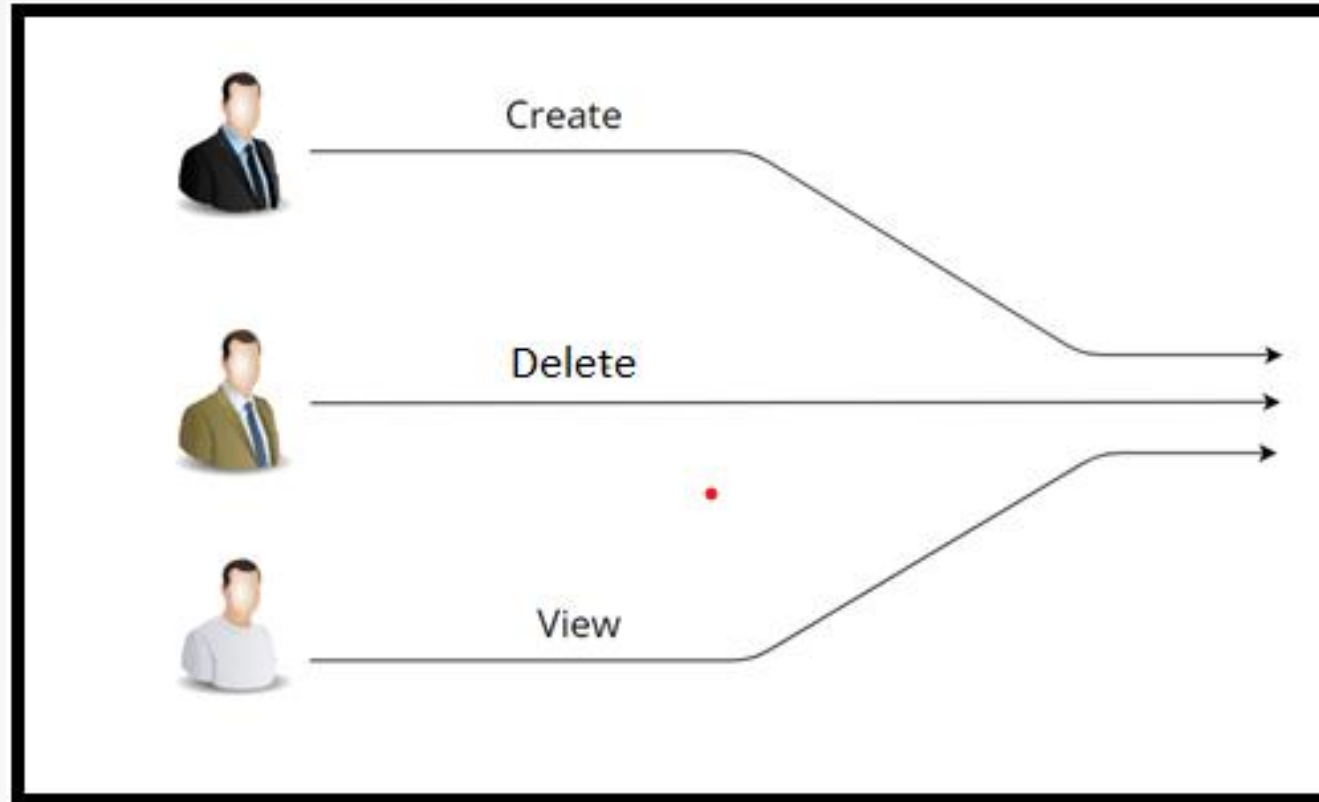
## Roles

- Car Owner
- Car User
- Admin

## Responsibilities of each user

- Car Owner - Car Owner get benefited from our application as he/she get financial benefit as well as companionship along the journey.
- Car User -Car User get benifited from application as Car User get optimized cost of travel, faster travelling, and avoiding public transport.
- Admin-Account management, permission to allow users and car-owner passenger.

# Working



# Features

- Admin can Allow all type of Users.
- Admin can can disable all type of User's account.
- Admin can manage account details.
- Car-Owner can create ride.
- All Users can add details and register itself.
- Car-Owner can create ride and cancel ride.
- All Users can update their details.
- Car-User can add review to ride .
- Car-User can book the ride and pay for their booking.

# Benefits

- Private Vehicle Owners: Individuals who own a car and offer rides to other users through the carpooling system.
- It is very easy to use.
- The individuals who have cars seats available for share transportation with others.
- It saves a lot of time and money .
- Eco-friendly: Government and Regulatory Authorities: Reduce traffic congestion and promote sustainable transportation.
- Travelers: People who use carpooling for long-distance trips.

# Benefits

- Passenger seek shared rides with drivers heading towards in the same city. It provides custom features development and support with the application.



# Conclusion

- Challenges we faced :

There were many challenges that we faced like finding a right path to start with, exploring the technologies beyond the horizon of our course etc.

- Things Learnt :

We have learnt to efficiently distribute the task within the team. We have learnt to combine all the dynamic stack of technologies together to create a fully functional software.

- Overall Experience :

Overall experience was very practical oriented and highly knowledgeable faced :

# Future Scope

Carpooling is the sharing of car journeys so that more than one person travels in a car, and prevents the need for others to have to drive to a location themselves with own car.

Reduce traffic congestion – The benefits of carpooling on a large scale are huge. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user–friendly website to Society.

# THANK YOU