

# CSE-2211: Database Management System Lab

Group: B-4

Ibna Afra Roza (16)

Mehedi Hasan (22)

# Overview



**Goriber Gari** is a full-stack e-commerce platform designed for a seamless car purchasing experience. It allows users to browse a wide catalog of vehicles, view detailed information, and make purchases directly through the website.

- GitHub: [CSE-2211-Project](#)
- YouTube: [Demo Video](#)

# Tech Stacks

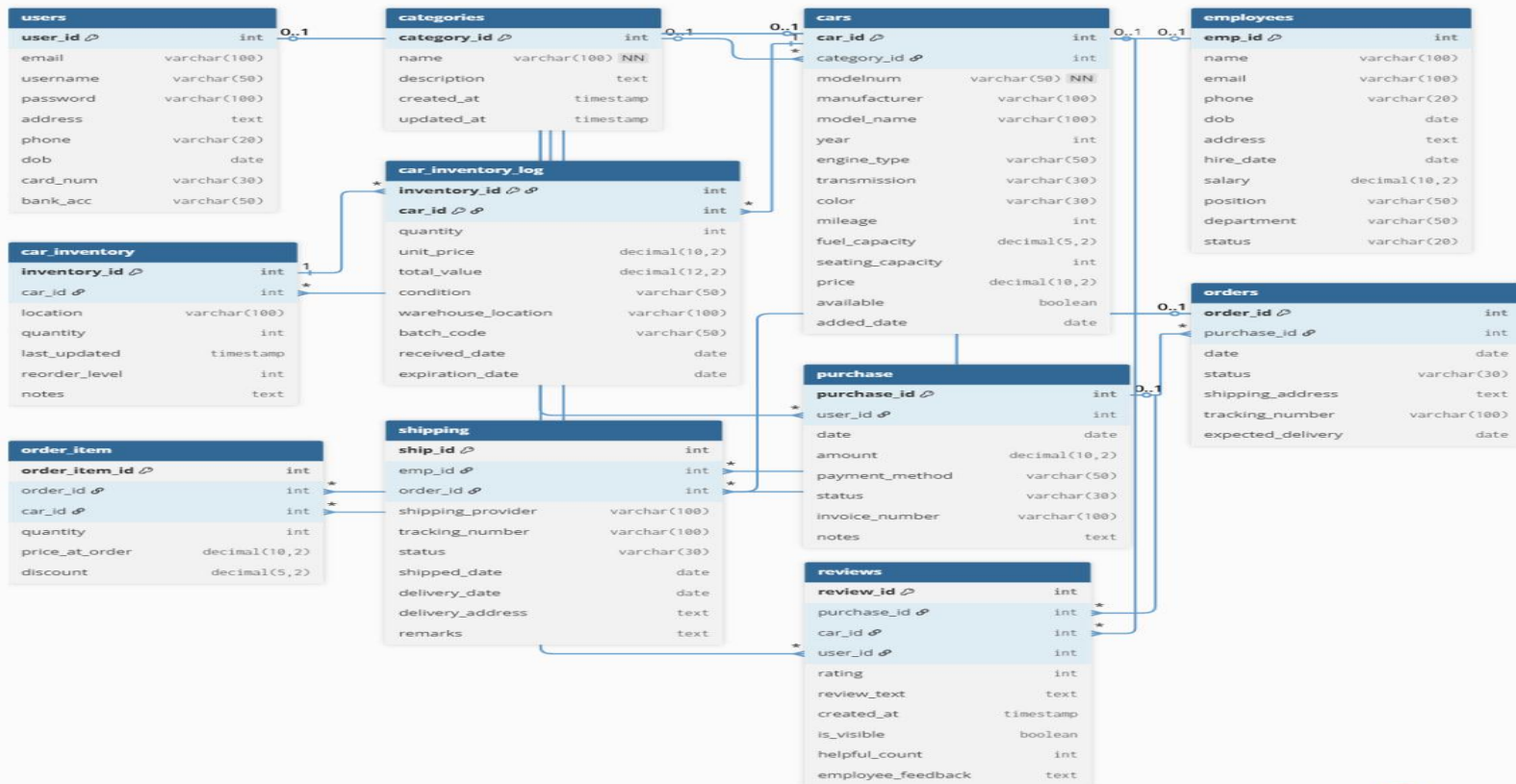
**Frontend:** React JS, Axios, Bootstrap

**Backend:** FastAPI, SQLAlchemy

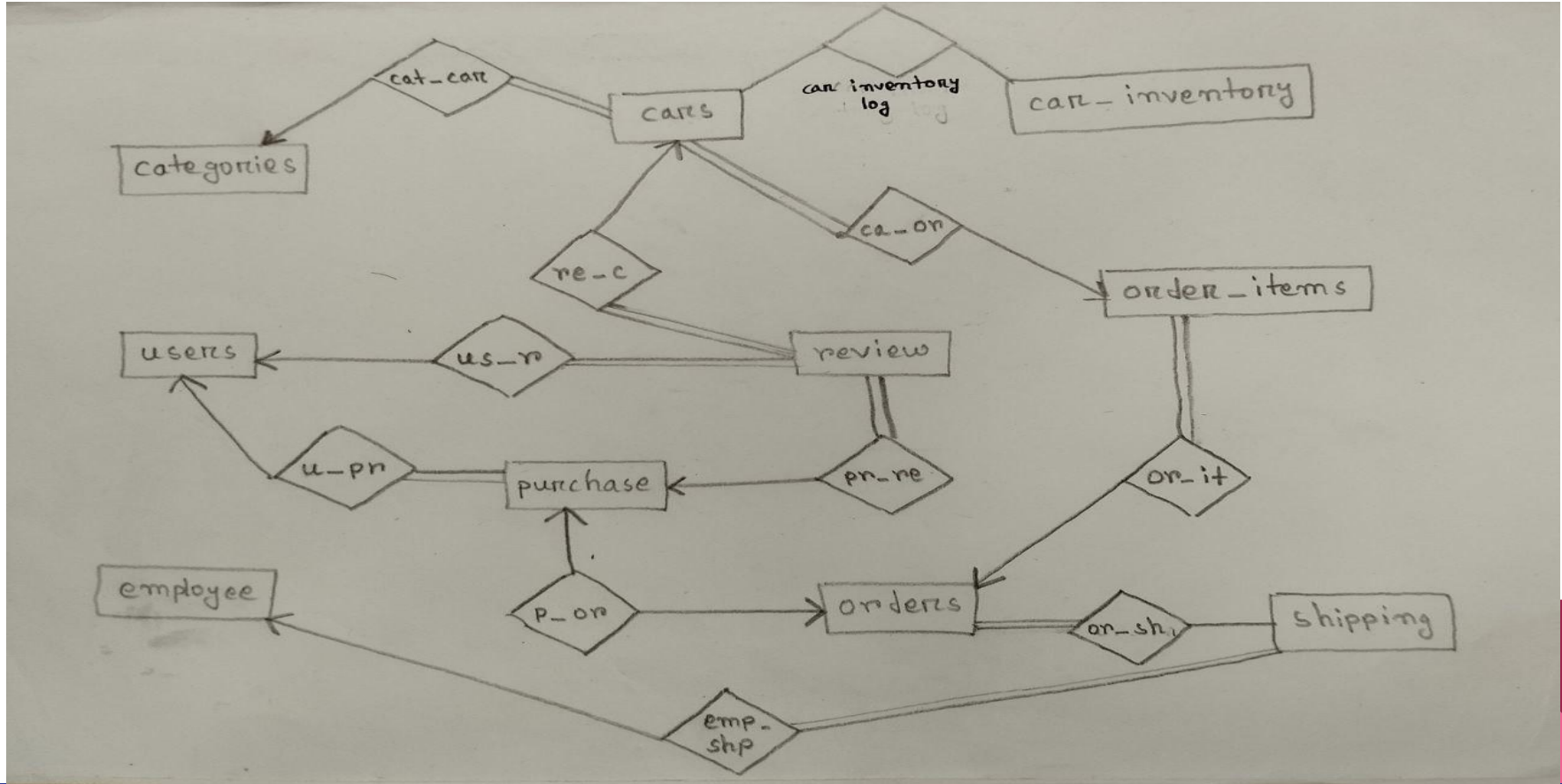
**Database:** PostgreSQL



# Schema Diagram



# ER Diagram



# Normal Form

|                          | <b>1NF</b> | <b>2NF</b> | <b>3NF</b> | <b>BCNF</b> |
|--------------------------|------------|------------|------------|-------------|
| <b>users</b>             | yes        | yes        | yes        | yes         |
| <b>cars</b>              | yes        | yes        | no         | no          |
| <b>car_inventory</b>     | yes        | yes        | yes        | yes         |
| <b>category</b>          | yes        | yes        | yes        | yes         |
| <b>car_inventory_log</b> | yes        | yes        | yes        | yes         |
| <b>reviews</b>           | yes        | yes        | no         | no          |

# Normal Form

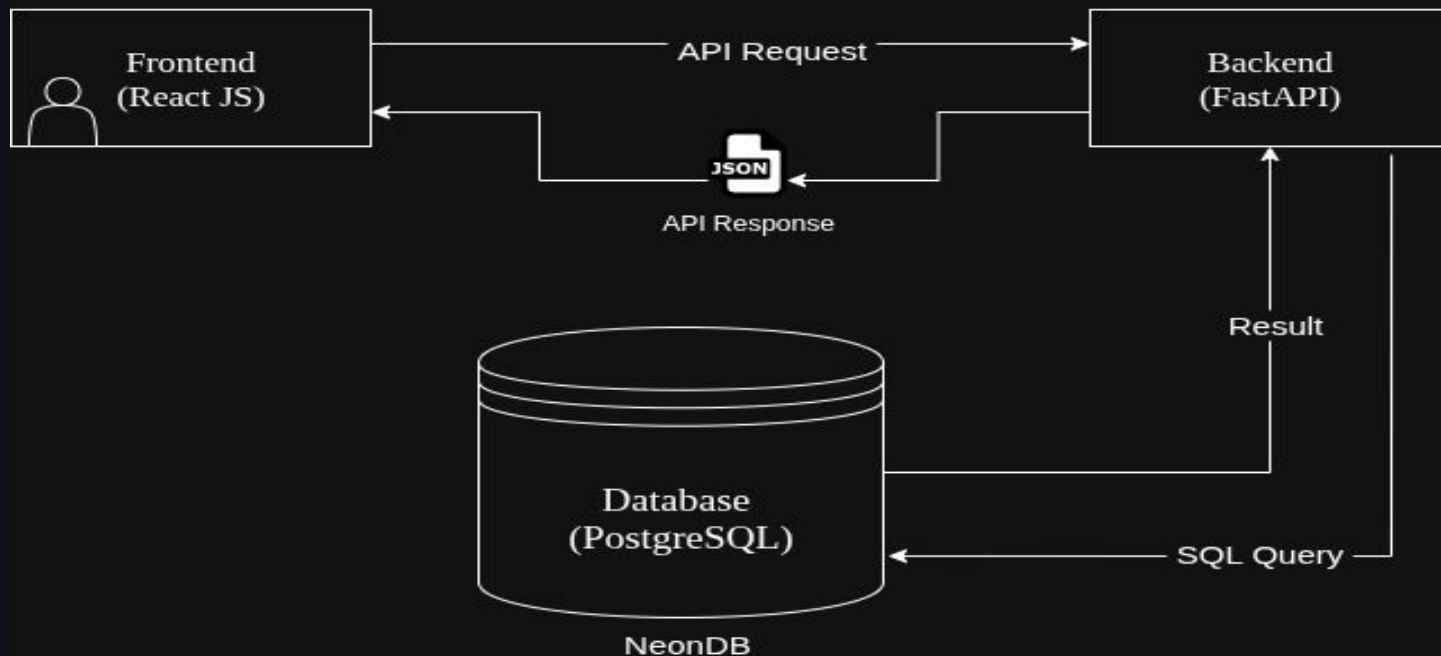
|                    | 1NF | 2NF | 3NF | BCNF |
|--------------------|-----|-----|-----|------|
| <b>employees</b>   | yes | yes | yes | no   |
| <b>orders</b>      | yes | yes | no  | no   |
| <b>order_items</b> | yes | yes | yes | yes  |
| <b>purchase</b>    | yes | yes | yes | yes  |
| <b>shipping</b>    | yes | yes | no  | no   |



# System Architecture

## Goriber Gari

A Full stack e-commerce type web application for showing the practical use case of SQL.

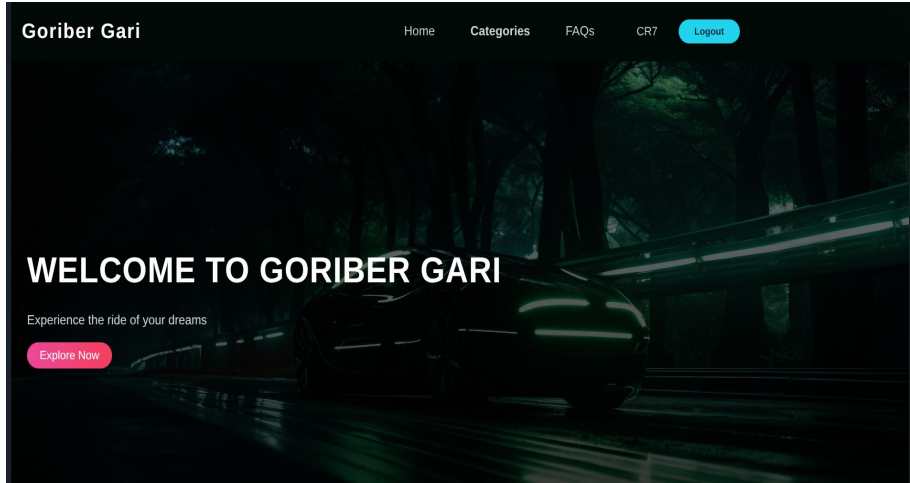




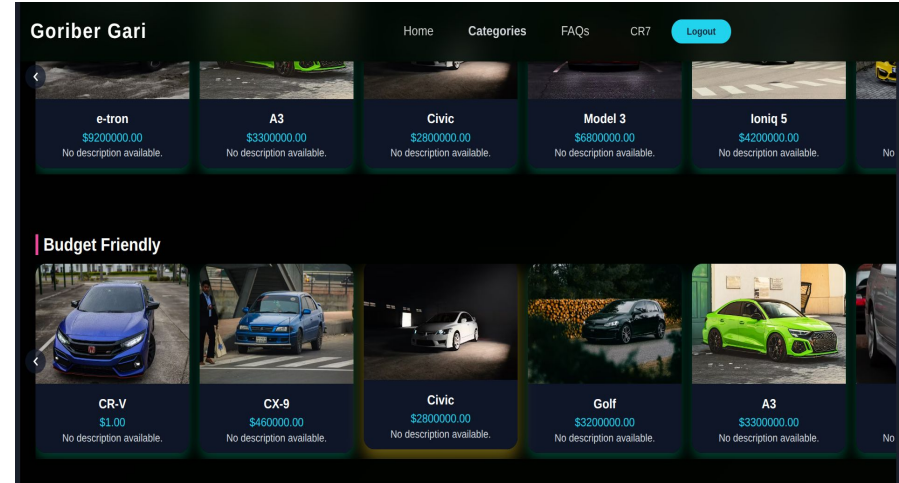
# Features

- User Authentication
- Product Catalog
- Detailed Car View
- Shopping Cart
- Checkout Process
- User Profiles
- Inventory Management
- Money Receipt

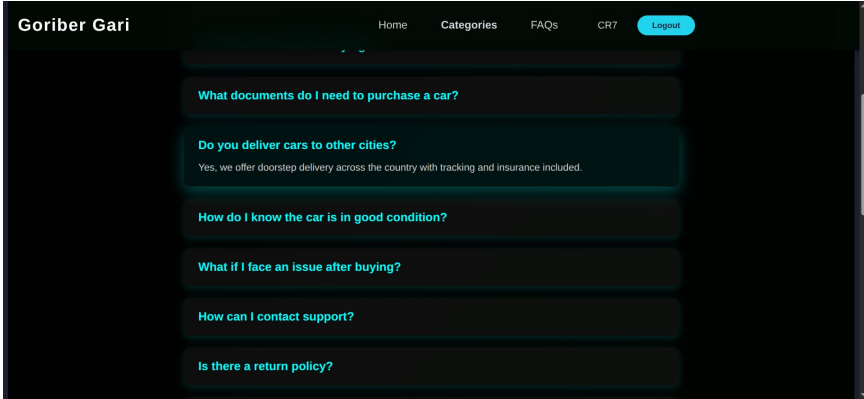
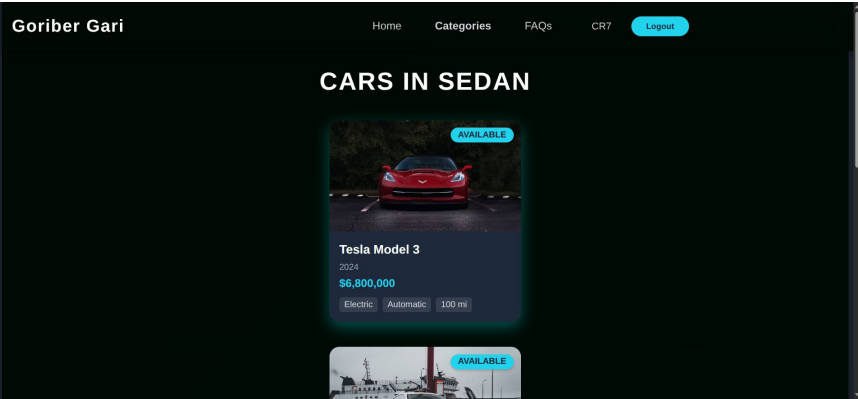
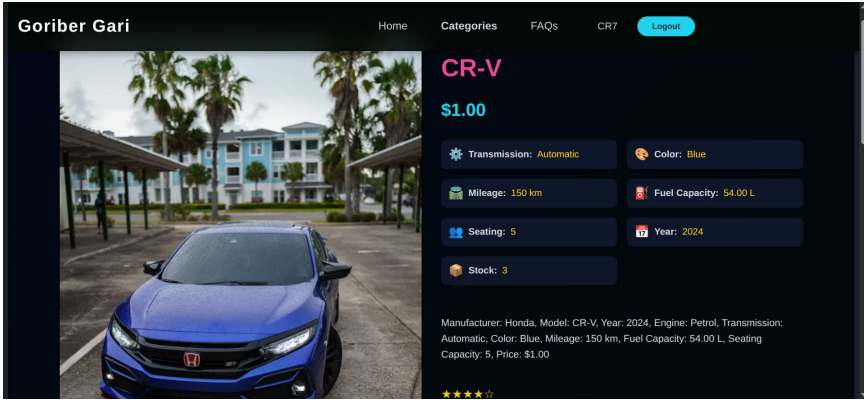
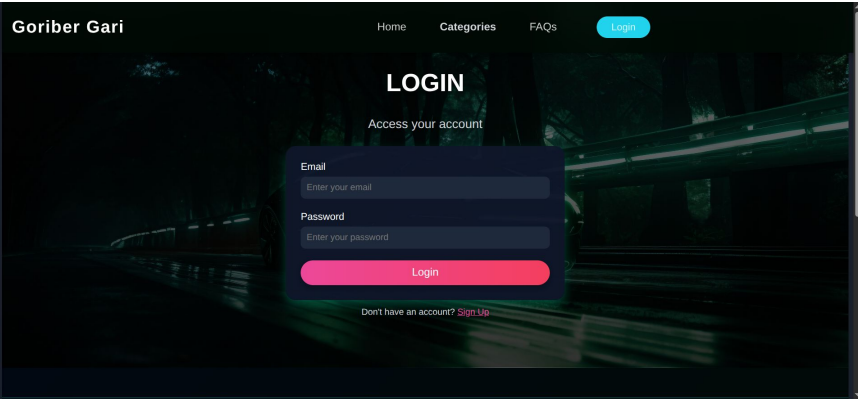


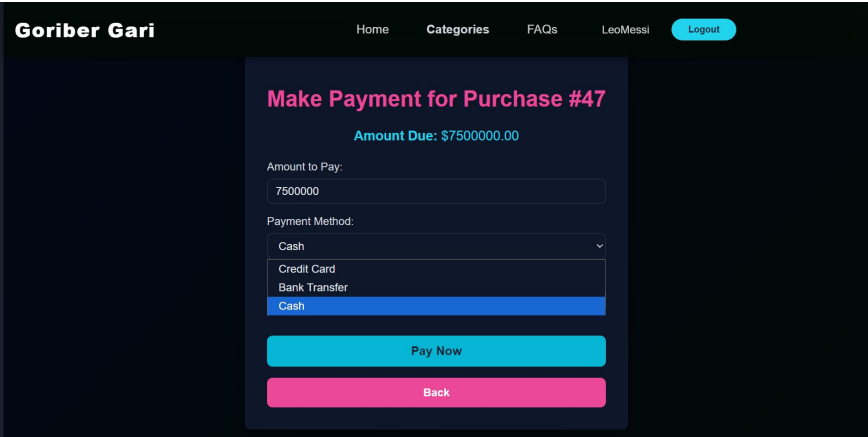
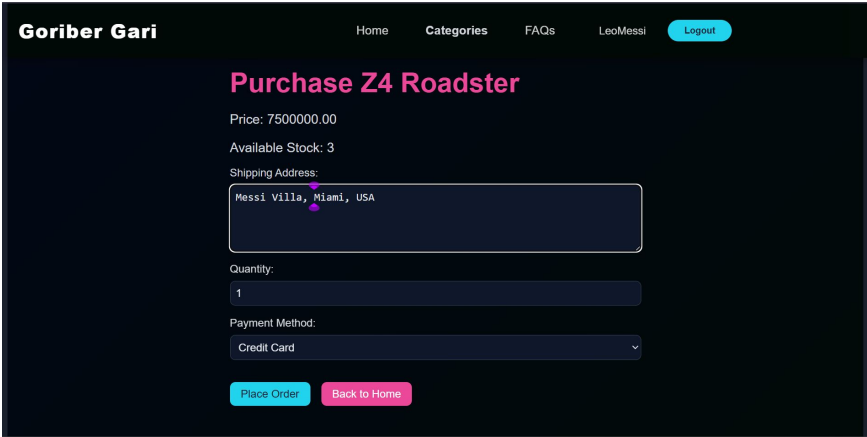
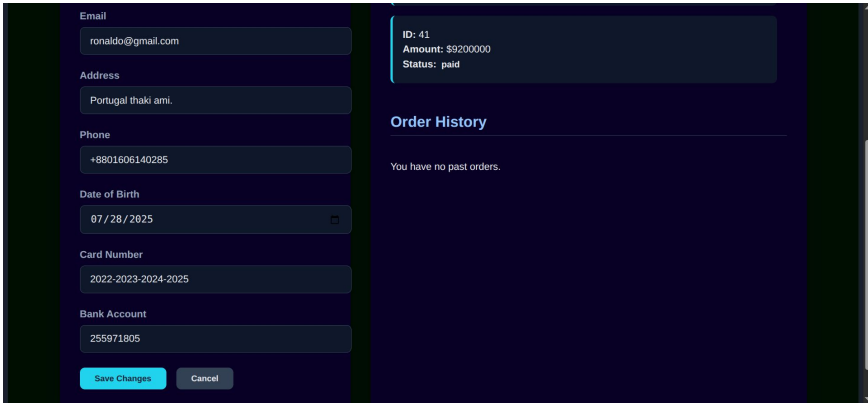
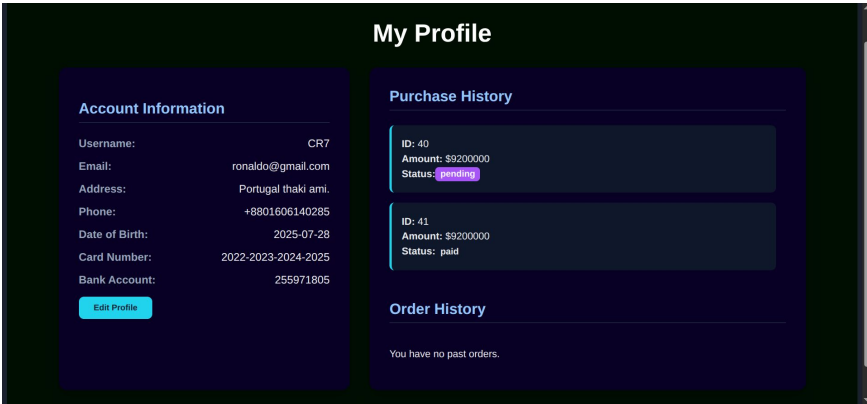


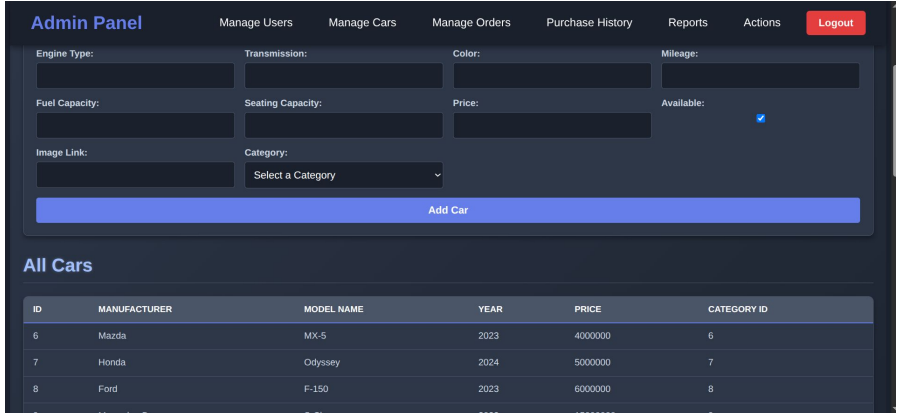
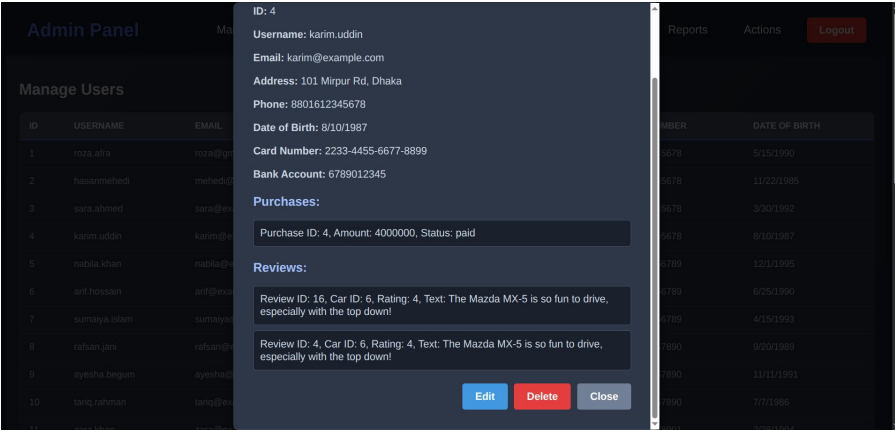
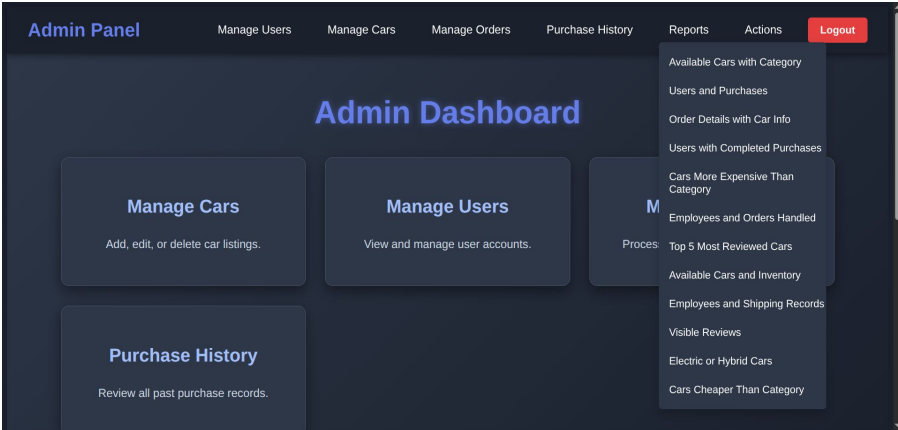
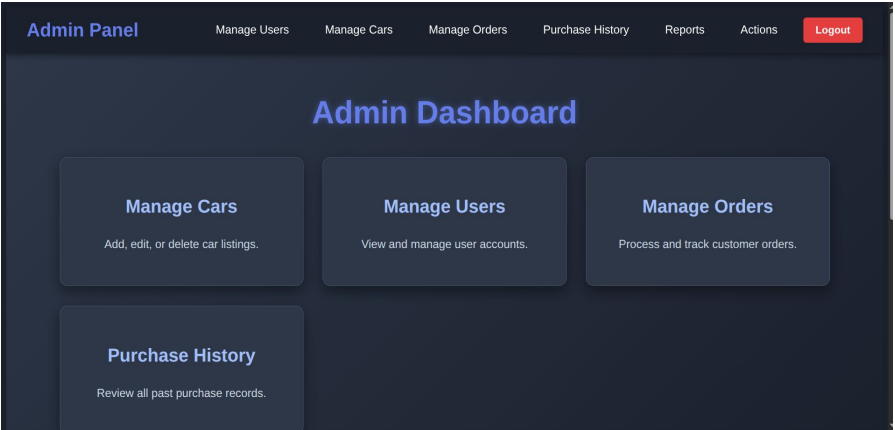
Welcome Page



Welcome Page







# References

1. <https://www.w3schools.com/REACT/DEFAULT.ASP>
2. <https://fastapi.tiangolo.com/tutorial/>
3. <https://www.geeksforgeeks.org/>
4. <https://www.postgresql.org/docs/current/tutorial.html>



Thank You

