

Database Management Systems

Semester Final Project

Instructor:

Miss Warda

Group Members:

Haider (241849)

Muhammad Ali Zafar

(241813)

Class:

BSCS-2B

Contributions

Haider

- Frontend (html/css)
- Frontend Design
- Database Design

Muhammad Ali Zafar

- Javascript
- Node/Express
- Database Design

Project Description:

The project is based on a real-life application for an auto showroom. This project showcased the skills we learned throughout this whole course. The project fulfils all the requirements and executes the CRUD operations, making our website completely dynamic. The website fetches data from the database and altering it when needed

Stack Used

Postgres SQL
HTML/CSS
Javascript
Node JS
Express JS

Softwares Used

Visual Studio Code
PG admin
dbeaver
Postman

Functionality

Admin Portal

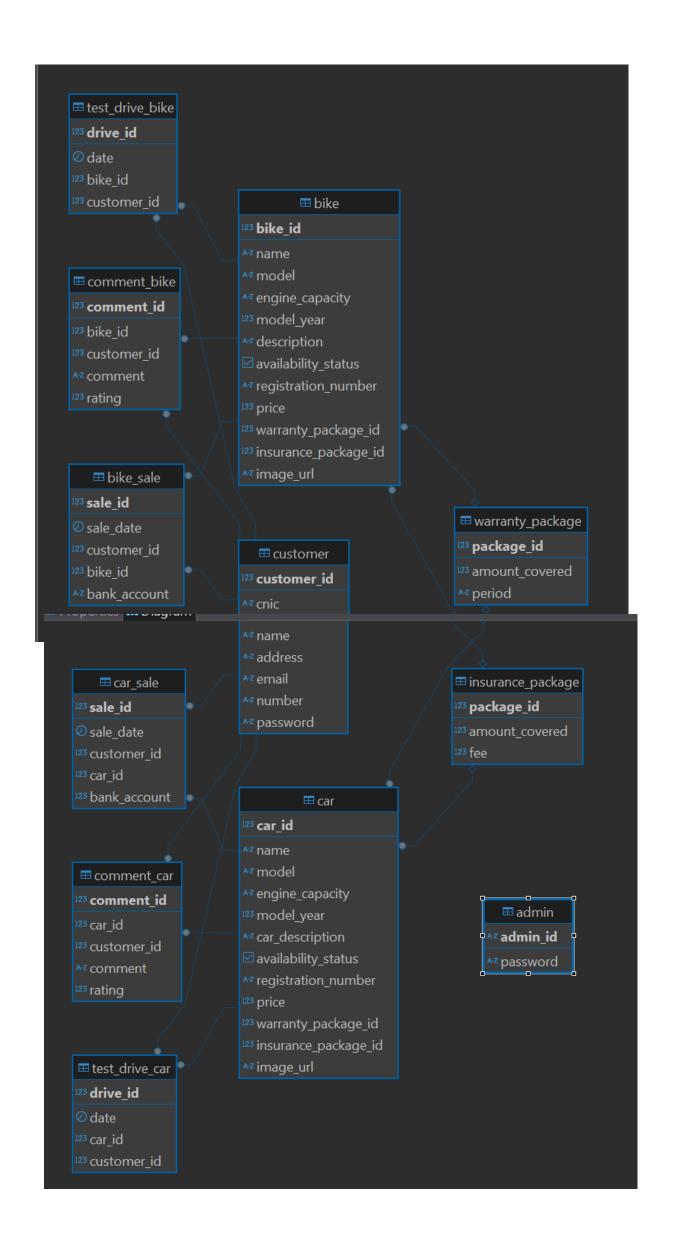
Admin portal requires admin login and gives access to the user to view all the insurance packages, warranty packages, and all the cars and bikes that are available (Retrieve). Admin can also create new warranty packages and insurance packages (Create). Admin can also add new cars and bikes for sale (Create).

Admin can also view all sales and test drives (Retrieve) and delete existing cars from the website (Delete)

User Portal

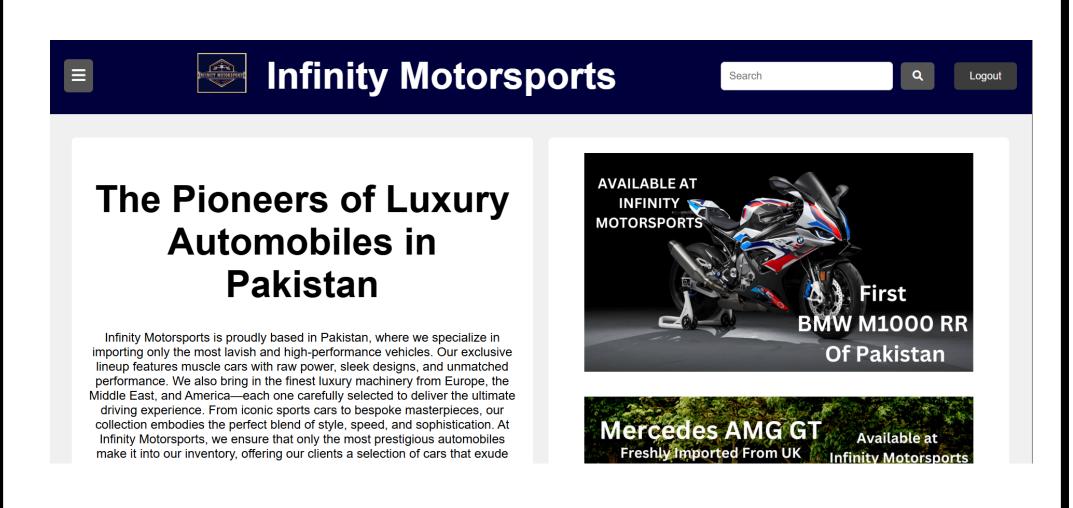
Users can view the website, buy cars and bikes (Create), add reviews after the purchase and also book test drives(Create).

Entity Relationship Diagram

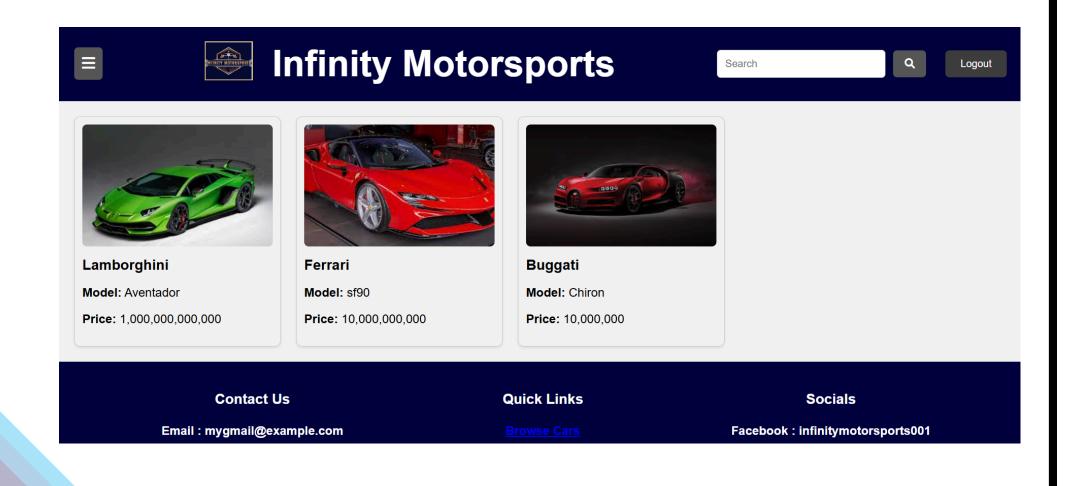


Screen Shots

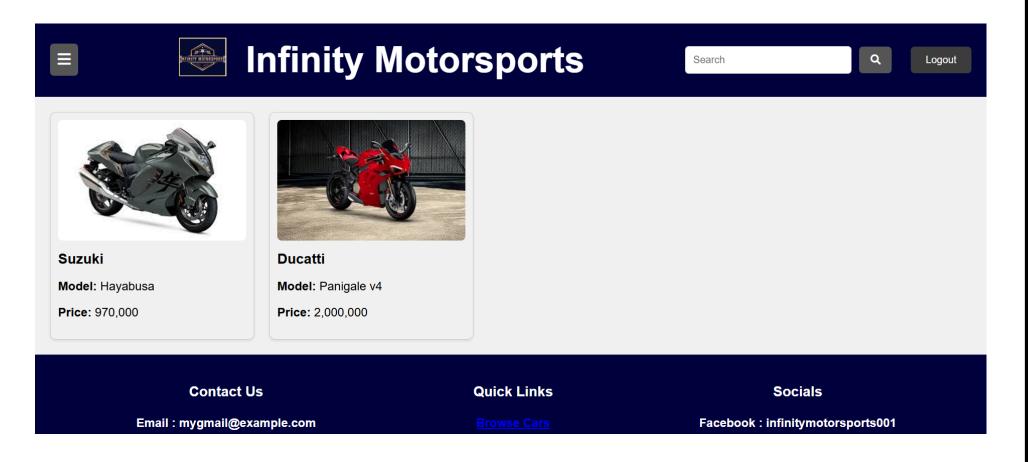
Home Page



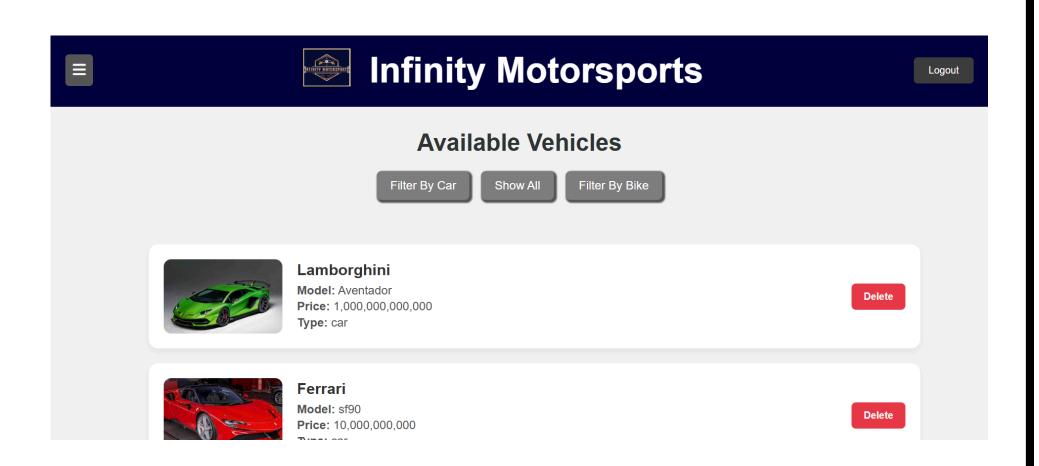
Available Cars



Available Bikes



Admin Portal



Project Learning Outcomes

- Full Stack Web Development
- Database Design Proficiency
- ERD & Schema
 Implementation
- Backend Integration
- Frontend-Backend
 Communication
- Image Upload & Handling
- Advanced SQL Usage
- Problem Solving & Debugging
- Time & Resource
 Management

Learning Resources

- Chat GPT
- Bro Code HTML/CSS Complete
 Course

(https://youtu.be/HGTJBPNC-Gw?si=52ZzS_aUFmPdVHES)

- Free Codecamp Javascript Course (https://youtu.be/PkZNo7MFNFg? si=Eyxbq6X5DxwzZX_e)
- Node JS and Express JS complete course, Free Codecamp.org (https://youtu.be/PkZNo7MFNFg? si=Eyxbq6X5DxwzZX_e)
- Freecodecamp.org Postgres
 Complete Course
 (https://youtu.be/qw--VYLpxG4?
 si=1tRhuKmzaUaQWOY5)