

**Web Application Development and Software Frameworks Lab  
Case Study**



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## **Case Study on Car Store Web Page**

### **Introduction**

The car store web project was developed as a collaborative effort among four team members: Manas, Chandu, Sadananda, and Jaswanth. The objective was to create a fully functional web application for managing car sales, incorporating both user and admin functionalities.

## **Team Contributions**

### **Manas - Prototype Development**

Manas was responsible for designing the prototype of the website. He created the initial wireframe and layout, ensuring a user-friendly interface and intuitive navigation. The prototype served as a foundation for the final development.

### **Chandu - Frontend Development**

Chandu worked on the core user-facing pages, including:

- **Home Page:** Provided an overview of the website and featured popular cars.
- **Car Detail Page:** Displayed individual car details, including specifications and pricing.
- **Buy Page:** Allowed users to proceed with car purchases.
- **Buy Confirmation Page:** Confirmed the purchase details and provided transaction status.

### **Sadananda - Admin Panel Development**

Sadananda focused on the administrative functionalities, including:

- **Admin Login Page:** Provided secure authentication for admins.

- **Admin Dashboard:** Allowed administrators to manage the car inventory.
- **Add Car Page:** Enabled admins to add new car listings.
- **Delete Car Page:** Allowed removal of cars from the inventory.

### **Jaswanth - Backend Development**

Jaswanth was responsible for building the backend using **MySQL**. His tasks included:

- **Database Design:** Creating tables for storing car details, user information, and transactions.
- **Data Management:** Handling queries for adding, updating, and deleting car records.
- **Backend Integration:** Connecting the frontend and admin panel to the database to ensure seamless functionality.

## **3. Technologies Used**

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** MySQL, Servlet (Java)
- **Server:** Tomcat
- **Tools:** Eclipse

## **4. Challenges Faced & Solutions**

- **Database Optimization:** Ensuring efficient queries for faster page loads.
- **Frontend-Backend Integration:** Debugging issues related to data retrieval and submission.
- **Admin Panel Security:** Implementing authentication to prevent unauthorized access.

## 5. Conclusion

This project successfully demonstrated the ability to create a functional car store web application through teamwork and proper division of tasks. The experience provided valuable insights into web development, database management, and user interface design. Future improvements could include additional features such as advanced filtering options and a payment gateway for seamless transactions.