Ephrem Kidane

CS425 SWE

Professor Obina O. Kalu

Problem Statement

**E2KCarRent**

E2KCarRent is a car rental system designed for efficient car rental services. The objective is to enhance the existing E2KCarRent system to provide a user-friendly interface for customers to rent cars seamlessly and enable administrators to effectively manage the rental process.

The problem at hand involves improving the E2KCarRent system by addressing the following requirements:

1. User-Friendly Interface: E2KCarRent should offer a simple and intuitive interface for customers to browse, select, and rent cars. The system should present clear and detailed information about available cars, including specifications, pricing, and rental terms.
2. Streamlined Registration and Login: Customers should be able to register easily on the E2KCarRent system. The registration process should be hassle-free, requiring minimal information, and the login process should be efficient and secure.
3. Efficient Car Reservation: E2KCarRent should enable customers to view the availability of cars and make reservations conveniently. The system should display accurate rental duration, pricing, and any additional terms or conditions associated with each car.
4. Customer Feedback System: E2KCarRent should incorporate a feedback system that allows customers to provide comments and ratings about their rental experiences. This will help improve service quality and assist potential customers in making informed decisions.
5. Effective Administration: The system should provide administrators with robust tools to manage customer accounts, car inventory, reservations, and personal information updates. Administrators should have the capability to add or remove customers, manage the car inventory by adding or deleting cars, handle reservation cancellations, generate reports, and update their own personal information.

The goal is to enhance the E2KCarRent system, ensuring it is user-friendly for customers and provides efficient administration tools for car rental company staff. The system should offer an intuitive interface for customers to browse, reserve, and rent cars, while enabling administrators to effectively manage customer accounts, car inventory, reservations, and generate necessary reports.

By addressing these challenges, the enhanced E2KCarRent system will enhance the overall car rental experience, improve customer satisfaction, and optimize the administration process for the car rental company.