**Erental System**

**Senior Project**

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**ERental**

ERental is a car rental system designed for efficient car rental services. The objective is to enhance the existing ERental 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 ERental system by addressing the following requirements:

1. User-Friendly Interface: ERental 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 ERental system. The registration process should be hassle-free, requiring minimal information, and the login process should be efficient and secure.
3. Efficient Car Reservation: ERental 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: ERental 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 ERental 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 ERental system will enhance the overall car rental experience, improve customer satisfaction, and optimize the administration process for the car rental company.

# Use Case Diagram

# A diagram of a car rental Description automatically generated with medium confidence

# User Story map

|  |
| --- |
| Customer |
| Login |
| Rent Car |
| Reserve Car |
| Search For Car |
| Review Service |
| Update Profile |

# the Acceptance Criteria for: -

1. Rent A Car: -
   * Start and end date must be provided.
   * Customers need to provide their information.
   * Should display error message if any information is missing.
   * Customer cannot rent a car if it not available.
2. Search Car: -
   * Customer can search a car using car id, make or model.
   * Should return or display no match found if the car does not exist in our database.
3. Login: -
   * Customer should enter both username and password to login.
   * Customer can reset password.
   * Customer can create account if they do not have any.

# Main Scenario

1. Rent A Car-:
   * Customers select a specific car.
   * Customers fill in the required input.
   * Customer click the submit bu<on to rent the car.
   * Customers see their confirma=on.

1. Search Car: -

* Customer put car informa=on.
* Customers click the search bu<on.
* Customer will know if car is available or not.

3. Login: -

* Customers enter username and password.
* If creden=al is correct, customer will login to their page.
* Customer navigate to the page and choose any ac=on.

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**Sequence Diagram**

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