

Assignment

Course Code : CSE 305
Course Title: Software Engineering

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Project Title: CarGo - Car Rental Reservation System

SDLC Model: Waterfall

Project Overview:

CarGo is a user-friendly Car Rental Reservation System designed to streamline the process of renting cars for individuals or businesses. The system aims to offer a straightforward and efficient way for users to search, book, and manage car rentals seamlessly.

1. Requirements Gathering:

Define functional and non-functional requirements.

Identify user roles, features (vehicle selection, booking, payment), and system behavior.

2. System Design:

Create detailed system architecture and UI/UX design.

Develop database schema for cars, users, reservations, etc.

3. Implementation:

Develop front-end and back-end components.

Incorporate user authentication, reservation handling, and payment processing.

4. Testing:

Perform unit, integration, system, and user acceptance testing.

Address and resolve any identified issues or bugs.

5. Deployment:

Deploy the CarGo system to a suitable hosting environment.

Ensure proper configurations for smooth functionality.

6. Maintenance & Support:

Provide ongoing support, maintenance, and user feedback incorporation.

Implement additional features and updates as required.

Tools & Technologies:

Programming Languages: Java, JavaScript

Databases: MySQL

Testing: Junit