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3)23000119

1.SDLC OVERVIEW

The System Development Life Cycle (SDLC) is a step-by-step process used to create software, ensuring it is well-designed and meets user needs. The first step is Requirements Analysis, where the team gathers information on what the software should do. For a Car Rental Management System, this includes understanding how customers will register, search for vehicles, and book them.

Next is Designing, where the team plans how the software will look and work. They decide how the different parts, like the customer booking page and the vehicle database, will interact. This planning helps make sure the system will be easy to use and function smoothly.

After the design is done, the Coding phase begins. Here, developers write the actual code to build the system based on the design. For the Car Rental System, this includes creating the features for customer registration, vehicle booking, and payments.

Once coding is finished, the system enters the Testing phase. This is where the software is checked to make sure everything works properly. The team tests all the features, like searching for vehicles, making a booking, and securing customer data.

After successful testing, the system is moved to the Deployment phase, where it goes live for users. For the Car Rental System, this means making the website or app available online so customers can start booking cars.

The last step is Evolution, where the system is maintained and improved over time. As new customer needs arise or updates are needed, the system will be adjusted. This keeps the software up-to-date, secure, and working well for users in the long term.

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2.REQUIERMENT GATHERING AND ANALYSIS:

2.1 Organization Details:Navrachana University

2.2 Meetings: We meet our faculty and referred and visited some of the websites for the project.

2.3 Data which will be Input into the system:

1.Text Format

2.Image Format

3.Number Format

2.4 Data which will be Output from the system

1.Text Format

2.Image Format

3. Number Format

2.5 Type of Project: Online

2.6 Method of collecting Data:

1.Research and Site visit.

2.Obsservation of the work environment.

3.Questionnaires.

4. Interviews

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3.SYSTEM REQUIREMENT SPECIFICATIONS:

3.1 Introduction: The purpose of this Car Rental Management System is to streamline the car rental process for customers, allowing them to book vehicles easily from anywhere in the world by providing an integrated online platform. The system aims to minimize human effort, simplify the process of filling in rental details, and offer the best possible deals by matching customer preferences with available vehicles

3.2 Overall Description: Overall, this project is designed to help anyone make it easier during the process of renting a car in the best possible way as well as reducing human efforts and obtaining the best offers.

3.3 External Interface Requirements:

1. User interface: -1. Booking.

2. Confirmation page.

3. Login/Sign up page.

4.Dashboard for Registered user.

2.Software interface: -

1.Operating System: -Window 10.

2.Front End: - HTML, CSS, JAVASCRIPT.

3. Back End: - PHP, MYSQL.

4. Other tools: - MSVISO, WORD.

3.4 System Features: -1. Quick booking.

2. Cost saving.

3.Vehicle maintenance.

4.Vehicle management.

3.5 Other Non-functional Requirements: -

1.PerformanceRequirement: - 1. Response Time.

2.Scalability.

3.Throughput.

4.Data Load.

2.Security Requirement: - 1. User Authentication.

2.Data Encryption.

3. Session Management.

4. Audit Logging.

3.Safety Requirement: - 1. Data Backup.

2. System Recovery.

3. Error Handling.

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4.SYSTEM ANALYSIS AND MODELING

4.1 Use case Diagram:

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