**CAR RENTAL SYSTEM**

**Project Synopsis**

PROJECT (IDS353)

Degree

**BACHELOR OF TECHNOLOGY (CSE)**

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**FACULTY OF ENGINEERING & COMPUTING SCIENCES**

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# Project Title

Car Rental System in Java

# Domain

Vehicle Rental Management

# Problem Statement

**The existing car rental systems lack an efficient, user-friendly, and reliable platform for both customers and rental agencies to manage vehicle rentals. This project aims to address these issues by developing a comprehensive car rental system using Java*.***

# Project Description

This project involves designing and implementing a Java-based car rental system that allows customers to search, book, and manage vehicle rentals. Rental agencies, Costumers can list their vehicles, manage bookings***.***

## Scope of the Work

The scope of a car rental system is to provide a platform for customers to easily rent vehicles for short-term use, facilitating the management of bookings, payments, and vehicle availability

## Project Modules

User Registration and Authentication

Booking and Reservation System

Availability

Customer Support and Assistance

# Implementation Methodology

The implementation methodology for a car rental system involves a structured approach to transform project requirements into a functioning system. It encompasses planning and requirement gathering to define project scope and objectives. System design, including database and user interface design, is crucial to lay out the system's architecture.

# Technologies to be used

## Software Platform

Java for backend development.

MySQL for database management.

## Hardware Platform

Standard server hardware for hosting the system.

## Tools

Integrated Development Environment (IDE) for Java development.

MySQL.

# Advantages of this Project

Improved efficiency in managing vehicle rentals.

Enhanced user experience for customers and rental agencies.

# Future Scope and further enhancement of the Project

Integration with GPS for location tracking.

AI-driven recommendations for vehicle selection.

# Team Details

| **Project Name & ID** | **Course Name** | **Student ID** | **Student Name** | **Role** | **Signature** |
| --- | --- | --- | --- | --- | --- |
| CAR RENTAL  SYSTEM | B.TECH(DS)  B.TECH(CTIS)  B.TECH(CTIS) | TCA2266003 | ARPAN RASTOGI | Developer. |  |
| TCA2250006 | ARIF ALI | Backend  Developer. |  |
| TCA2250008 | ABHISHEK TYAGI | Testing. |  |

# Conclusion

**The Car Rental System in Java aims to revolutionize the vehicle rental industry by providing an efficient and user-friendly platform for both customers and rental agencies. With real-time tracking, secure payments, and advanced features, it promises to improve the overall rental experience.**

# References

Geekforgeeks , etc.