

FACULTY OF ENGINEERING & COMPUTING SCIENCES
TEERTHANKER MAHAVEER UNIVERSITY, MORADABAD



CAR RENTAL SYSTEM

Project Synopsis

PROJECT (IDS353)

Date :- 30/09/2023

Degree :-

BACHELOR OF TECHNOLOGY (CSE - I_Nurture)

PROJECT GUIDE:

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TABLE OF CONTENTS

1	Project Title	3
2	Domain.....	3
3	Problem Statement.....	3
4	Project Description.....	3
4.1	Scope of the Work	Error! Bookmark not defined.
4.2	Project Modules.....	Error! Bookmark not defined.
5	Implementation Methodology.....	Error! Bookmark not defined.
6	Technologies to be used	Error! Bookmark not defined.
6.1	Software Platform	Error! Bookmark not defined.
6.2	Hardware Platform	Error! Bookmark not defined.
6.3	Tools.....	Error! Bookmark not defined.
7	Advantages of this Project	4
8	Future Scope and further enhancement of the Project	Error! Bookmark not defined.
9	Team Details.....	5
10	Conclusion.....	5
11	References	5

1. PROJECT TITLE

Car Rental System in Java

2. DOMAIN

Vehicle Rental Management

3. 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.

4. PROJECT DESCRIPTION**1.1 4.1 Scope of the Work**

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.

1.2 4.2 Project Modules

User Registration and Authentication

Booking and Reservation System

Availability

Real-time Tracking

Reporting and Analytics

Customer Support and Assistance

Data Security and Privacy

5. IMPLEMENTATION METHODOLOGY

Agile development methodology with iterative cycles and frequent testing

6. TECHNOLOGIES TO BE USED

6.1 Software Platform

Java for backend development

MySQL for database management

6.2 Hardware Platform

Standard server hardware for hosting the system

6.3 Tools

Integrated Development Environment (IDE) for Java development (e.g., Eclipse, IntelliJ IDEA)

Version control system (e.g., Git)

Web server for hosting (e.g., Apache Tomcat)

7. ADVANTAGES OF THIS PROJECT

- *Improved efficiency in managing vehicle rentals.*
- *Enhanced user experience for customers and rental agencies.*
- *Real-time tracking and reporting capabilities.*
- *Increased transparency and data security.*

8. FUTURE SCOPE AND FURTHER ENHANCEMENT OF THE PROJECT

- *Integration with GPS for location tracking.*
- *Integration with payment gateways for seamless transactions.*
- *Integration with UPI for payment flexibility.*
- *AI-driven recommendations for vehicle selection.*

9. TEAM DETAILS

Project Name & ID	Course Name	Student ID	Student Name	Role	Signature
CAR RENTAL SYSTEM.	B.tech(DS)	TCA2266003	Arpan Rastogi	Developer.	
	B.tech(CTIS)	TCA2250006	Arif Ali	SQL.	
	B.tech(CTIS)	TCA2250008	Abhishek Tyagi	Tester.	

10. 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.

11. REFERENCES

Geeksforgeeks,etc.