



INFOSYS SPRINGBOARD

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CAR RENTAL MANAGEMENT SYSTEM

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TABLE OF CONTENTS

01

Introduction

02

Problem Statement

03

Objective

04

Technologies used

05

Implemented modules

06

Conclusion

INTRODUCTION

- The Car Rental Management System is a Java-based online platform designed to simplify car rental bookings and management.
- Users can create accounts, check car availability, make bookings, and manage them easily.
- Administrators have tools to manage cars, schedules, and bookings efficiently on a single platform.
- The system ensures a smooth and user-friendly experience for customers.
- It streamlines operations, making car rentals more accessible and organized for businesses.



PROBLEM STATEMENT

- The Car Rental Management System aims to address the lack of efficient and user-friendly platforms for booking and managing rental cars.
- It simplifies the process for customers to book and manage cars while helping administrators organize schedules and bookings effectively.

OBJECTIVES



01.

To develop a user-friendly platform that allows customers to easily book, view, modify, and cancel car rentals as per their convenience.



02.

To provide administrators with efficient tools for managing cars, schedules, and bookings, ensuring smooth operations.



03.

To streamline the car rental process by integrating essential features, improving accessibility, and enhancing overall user experience.

TECHNOLOGIES USED

Frontend Technologies: HTML5, CSS3, Bootstrap

Backend Technologies: Java 8, Spring Boot 3

Database: MySQL 8

Build Tool: Maven

IDE: Eclipse IDE/IntelliJ IDEA

IMPLEMENTED MODULES



- 1
- 2
- 3
- 4
- 5

User Authentication and Registration

Customer Module

Admin Dashboard

Car Management Module

Booking Module

1. USER AUTHENTICATION AND REGISTRATION

- The User Authentication and Registration module securely manages user accounts and access.
- It allows users to register, log in, and manage their profiles, with **role-based** access for customers and administrators. Password management features, like reset options, ensure usability.
- Built with **Java** and **Spring Security**, the module provides a safe and efficient user authentication process.

2. CUSTOMER MODULE

- The Customer Module allows users to interact with the car rental system seamlessly.
- Customers can create an account, log in, and see all available cars based on their preferences.
- Customers can view car details, make bookings, and manage their bookings, including modifications or cancellations.
- This module ensures a user-friendly experience, making it easy for customers to navigate and complete their car rental process efficiently.

3. ADMIN DASHBOARD

- The Admin Dashboard is designed to help administrators efficiently manage the car rental system.
- It provides functionalities to add, update, and delete car details, monitor car availability, and manage customer bookings.
- Administrators can also view user details and oversee all reservations to ensure smooth operations.
- The dashboard offers a centralized platform for handling schedules, cars, and bookings, making management more organized and effective.

4. CAR MANAGEMENT MODULE

- The Car Management Module allows administrators to manage car details, including adding, updating, and removing cars.
- It supports defining car variants like model, type, seating capacity, fuel type, and rental price. Administrators can also update car availability, ensuring accurate and up-to-date inventory for customer bookings.

5. BOOKING MODULE

- The Booking Module streamlines the process of reserving rental cars.
- Customers can check car availability, select their preferred vehicle, and make bookings by providing necessary details such as rental dates.
- It allows users to view, modify, or cancel their reservations as needed.
- Administrators can oversee and manage all bookings, ensuring smooth operations. This module ensures an efficient and user-friendly booking experience for customers.

CONCLUSION

The Car Rental Management System simplifies car booking and management. It offers an easy platform for customers and efficient tools for administrators, ensuring a smooth experience for all users and streamlining operations.

THANK YOU!