



LOVELY
PROFESSIONAL
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CAR RENTAL SERVICES

Software Requirements Specifications

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Submitted By

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1. INTRODUCTION

1.1 Purpose

The purpose of this document is to outline the requirements for the development of a car rental service software.

1.2 Scope

The software will provide a platform for customers to rent vehicles and for administrators to manage bookings, vehicles, and users.

2. SYSTEM OVERVIEW

2.1 System Description

The car rental service will allows users to :

- Browse available vehicles
- Book the car
- View rental history
- Administrators will be able to manage vehicles, reservations, and user accounts.

3. FUNCTIONAL REQUIREMENTS

3.1 User Registration and Authentication

- Users can create accounts.
- Users can log in and log out.
- Password recovery/reset functionality.

3.2 Vehicle Management

- Administrators can add, edit, and remove vehicles.
- Vehicle information includes make, model, year, price, and availability status.

3.3 Reservation

- Users can search and browse available vehicles.
- Users can select a vehicle, specify rental dates, and make a reservation.
- Users can view, modify, and cancel reservations.
- Users receive a confirmation email after making a reservation.

3.4 Payment Processing

- Integration with a payment gateway for secure online transactions.
- Users can view payment history.

3.5 Administration Dashboard

- Administrators have access to a dashboard for managing vehicles, reservations, and users.
- Real-time updates on reservations and vehicle availability.

4. NON-FUNCTIONAL REQUIREMENTS

4.1 Performance

- The system should support a minimum of 500 concurrent users.
- Response time for user interactions should be under 2 seconds.

4.2 Security

- Data encryption for user information.
- Secure storage of payment details.

4.3 Scalability

- The system should be designed to accommodate future growth.

4.4 Availability

- The system should be available 24/7 with minimal downtime.

5. CONSTRAINTS

- The system should be developed using [specific technologies and frameworks]
- Compliance with local and international data protection regulations.

6. SYSTEM INTERFACE

- Integration with a payment gateway (e.g., PayPal, Stripe).
- Compatibility with various web browsers (e.g., Chrome, Firefox, Safari).

7. DEPENDENCIES

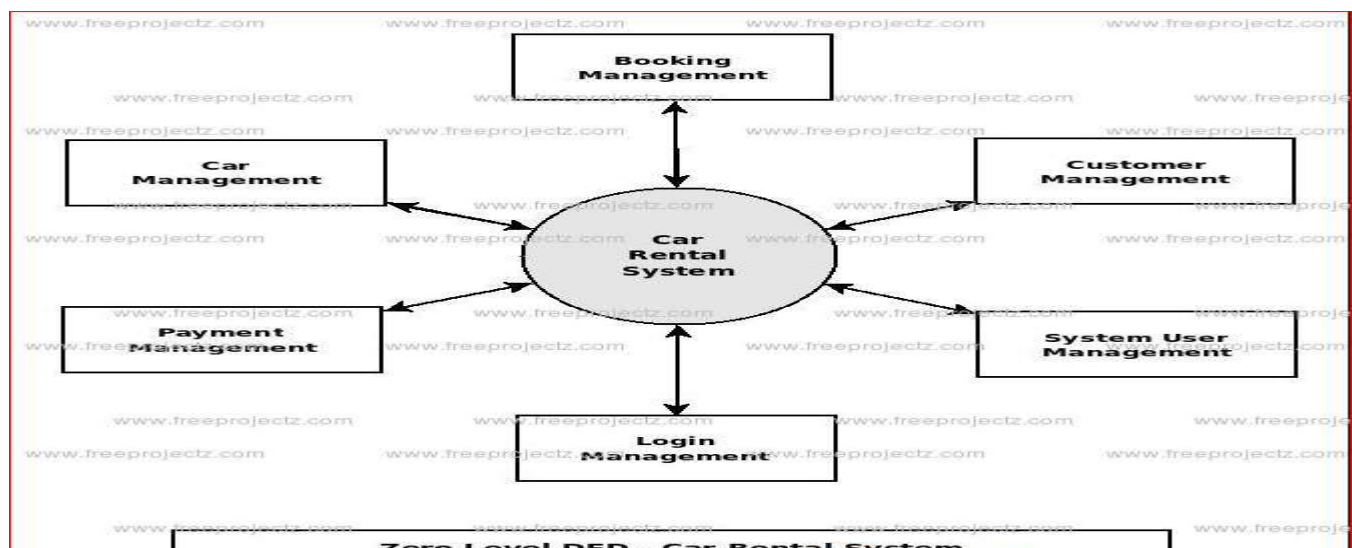
- Integration with an email service for sending confirmation emails.

8. FUTURE ENHANCEMENTS

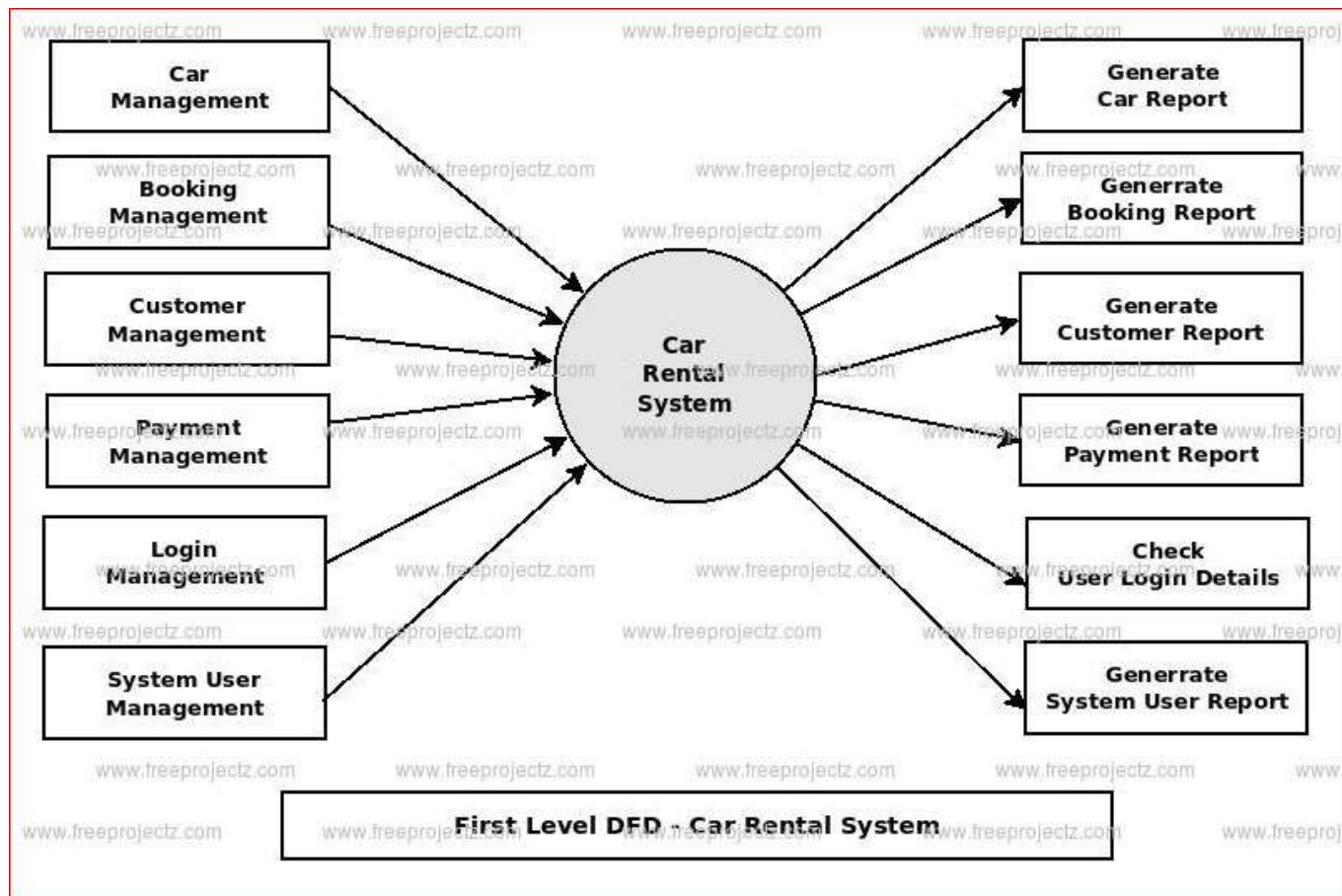
- Possibility of integrating mobile applications.
- Additional payment methods.

9. DATA FLOW DIAGRAM

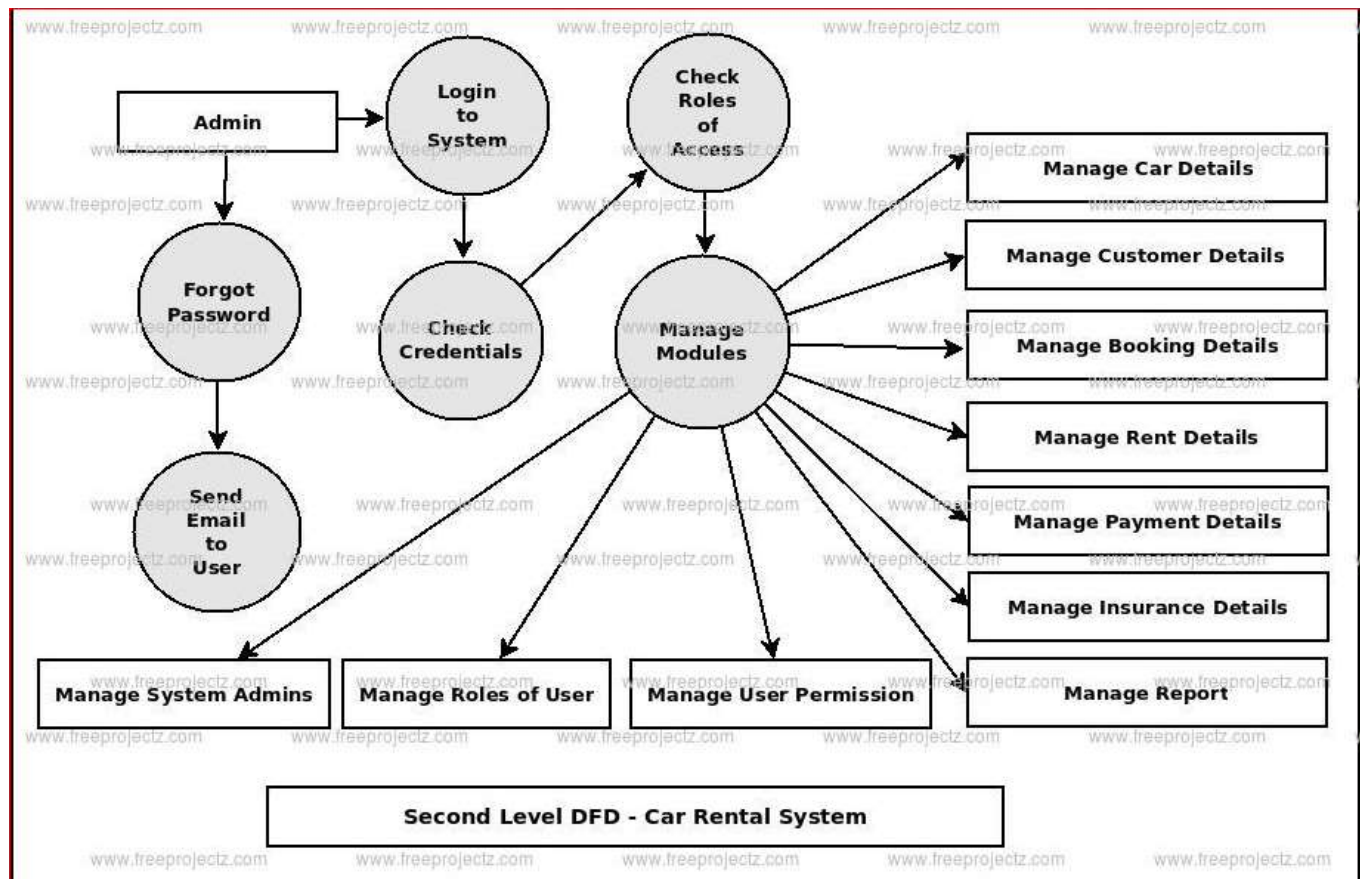
9.1 Zero Level DFD



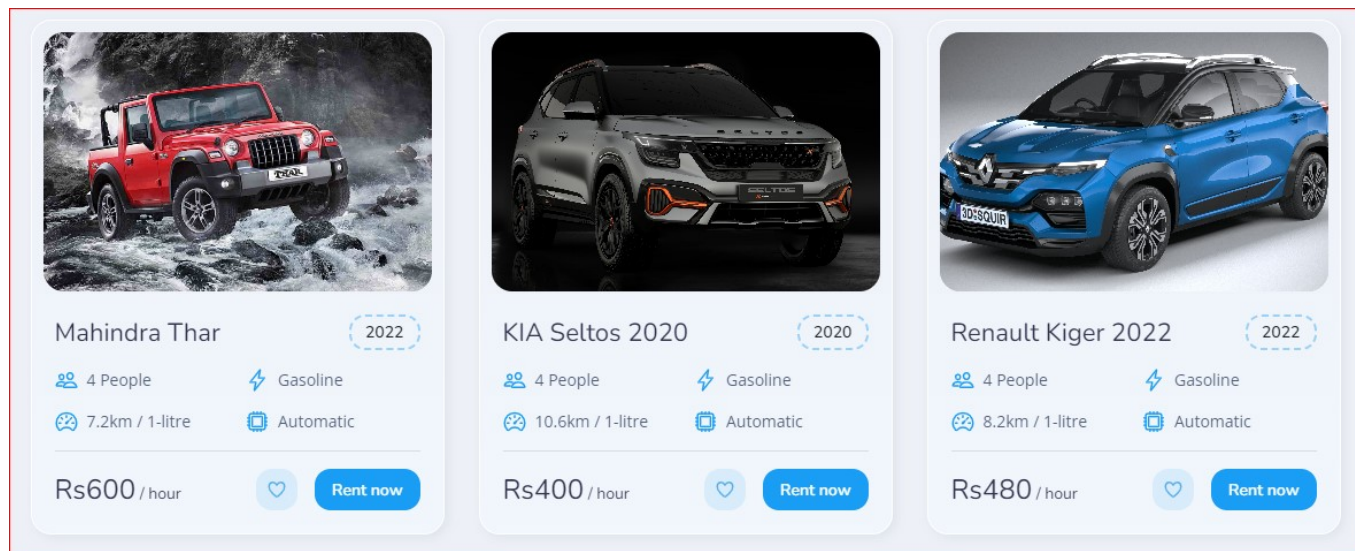
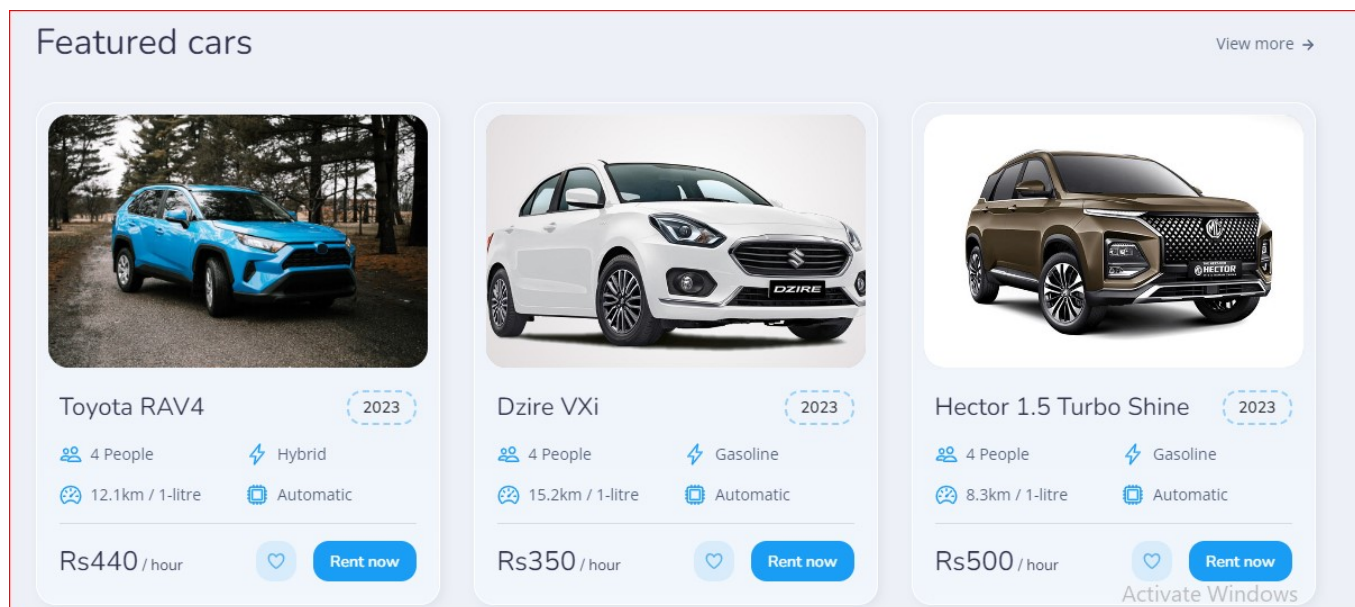
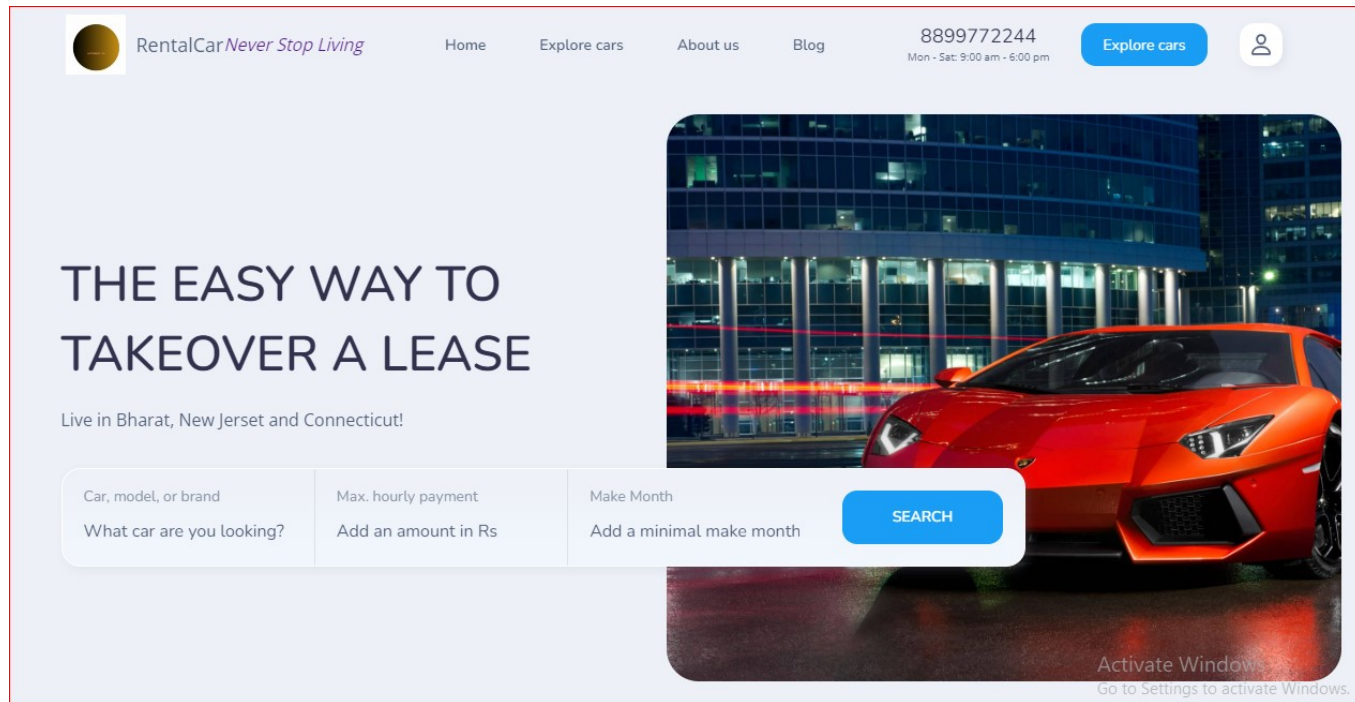
9.2 First level DFD



9.3 Second level DFD



10. SCREENSHOTS OF PROJECT



Get started with 4 simple steps

```
graph LR; A[Create a profile] --> B[Tell us what car you want]; B --> C[Match with seller]; C --> D[Make a deal];
```

- Create a profile**
Creating a profile allows people to share information about themselves.
[Get started](#)
- Tell us what car you want**
Various versions of cars are available, Tell us which versions of car do you want for riding.
- Match with seller**
It is the process of finding a seller whose products or services align with your needs and preferences.
- Make a deal**
It signifies reaching a mutual understanding and often involves compromises to satisfy the interest of all party.

Rental	Company	Support	Cities in Bharat	
Search for cheap rental cars in Bharat.	About us	Help center	Ayodhya	Jalandhar
With a diverse fleet of 19,000 vehicles,	Pricing plans	Ask a question	Varanasi	Amritsar
Waydex offers its consumers an attractive	Our blog	Privacy policy	Lakshmanpur	Phagwara
and fun selection.	Contacts	Terms & conditions	Prayagraj	Pathankot

Link to download the project :

Github link : <https://github.com/krishnadhar00/webd-project.git>

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