"CAR RENTAL SYSTEM"

Α

Project Report

Submission for fulfillment of practical session of

Data Base and Management System Lab



Bachelor of Technology Computer Science & Engineering V Semester

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Appendix

- > Acknowledgement
- > Objective
- > Abstract
- > Introduction
- > Scope
- > Feasibility Study
- > How to Run the code
- Requirement
 - Hardware
 - Software
- Design Phase
 - UML Diagram
 - Use-Case Diagram
 - Class Diagram
 - Schema Diagram
 - Sequence Diagram
 - Entity-Relationship Diagram
- > Snapshots of Project
- > Limitation
- > Future Scope
- **Conclusion**
- > Reference

ACKNOWLEDGEMENT

A study or a project can never be the outcome of a single person, so I express my profound sense of gratitude to those who extended their whole hearted help and support to me in completing my project because successful completion of any work requires guidance and help from a good people.

Firstly, it gives me immense pleasure to acknowledge my institute, **National**Institute of Technology Sikkim, for providing me an opportunity in developing a project on "Car Rental System".

In addition, I wish to express my deep sense of gratitude to **Dr. Sangram Ray**, H.O.D. & Assistant professor CSED, for permitting me to carry out with this project work and for his guidance and support. I also very much esteemed for giving sincere thanks to **Ms. Dipanwita Sadhukhan**, Research Scholar CSED, **Mr. Vivek Kumar**, Research Scholar CSED, **Mr. Debarpan Triwedi**, M.Tech 2nd year CSED and **Mr. Anil Kumar**, M.Tech 2nd year CSED for their special concern and providing sufficient information related to the topic, which helped me in completing the project work in time and their timely guidance had been a source of inspiration in the conduct of my project work. Last but not the least, I extend my whole-hearted gratitude for the invaluable contribution of my parents for their blessings and earnest affection and all those persons 'behind the veil' for their necessary support, which enabled me to complete this project.

-Khandapu Anehith

Objective

To develop software for car rental system with various functional and non-functional parts of design namely:

- 1. PROBLEM ANALYSIS AND REQUIREMENT ANALYSIS.
- 2. VEHICLE VIEWING
- 3. VEHICLE BOOKING
- 4. VEHICLE UPDATING
- 5. TESTINOMIAL CONTROL
- 6. PAGES CONTROL

The ultimate goal of this project is to develop a database that integrates the process of the renting of a car.

Abstract

A car rental or car hire agency is a company that rents automobiles for short period of time for a fee whether in a few hours or a few days or week. It is an elaborate form of a rental shop, often organized with numerous local branches (which allow a user to return a vehicle to a different location), and primarily 'located near airports or busy city areas and often complemented by a website allowing online reservations.

Car rental agencies primarily serve people who have a car that is temporarily out of reach or out of service, for example travelers who are out of town or owners of damaged or destroyed vehicles who are awaiting repair or insurance compensation. Because of the variety of sizes of their vehicles, car rental agencies may also serve the self-moving industry needs, by renting vans or trucks, and in certain markets other types of vehicles such as motorcycles or scooters may also be offered.

Introduction

Nowadays, there are online car reservations which give much benefit to user. A rental service, is a service in which customers arrive to request the hire of a rental unit. It is more convenient than carrying the cost of owning and maintaining the unit. A web application is an application that is accessed over a network such as the Internet or an intranet.

Therefore with this new method, the process will be more efficient and the safety of hiring car is secure. It's also the best way to increase the quality of management and can reduce the time constraints. The system being developed is a system to handle the business needs of renting out vehicles to customers, maintaining records and data on vehicle fleet, operating the customer portal website, and reporting the state of the system to the company. It is a system design especially for small car rental business.

The car rental system provides complete functionality of listing and booking car. The system will be able to rent out vehicles. The system will keep track of the rental fleet. The system will generate reports for the employees.

SCOPE

This project aims to maintain vehicle availability information. Other scopes of this project are as follows:

- Provide car catalog for users to select car by their own.
- To take testimonials and feedback from users.
- To view and manage the bookings by admin.
- To give UI to edit pages for admin.
- Improved and optimized service.

Feasibility Study

An initial investigation in a proposal that determines whether an alternative system is feasible. A proposal summarizing the thinking of the analyst is presented to the user for review. When approved, the proposal initiates feasibility study that describes and evaluates candidate systems and provides for the selection of best system that meets system performance requirements. To do a feasibility study, we need to consider the economic, technical factors in system development. First a project team is formed. The team develops system flowcharts that identify the characteristics of candidate systems, evaluate the performance of each system, weigh system performance and cost data and select the best candidate system for the job.

How to Run the Code

A. Installation Steps

- 1. Unzip file on your local system.
- 2. Put this file inside root directory.
- 3. Database Configuration.

B. Database Configuration

- Open PHPmyAdmin http://localhost/phpmyadmin/
- Create Database carrental
- Import database carrental.sql (available inside zip package)
- Open Your browser put inside browser http://localhost/carrental
- Login Details To Login as admin put inside browser http://localhost/carrental/admin
 - Login Details for admin: admin/Test@12345
- To Login as User put inside browser http://localhost/carrental/ Login Details for user: b150080cs@nitsikkim.ac.in / snehith1

Requirements

Hardware:

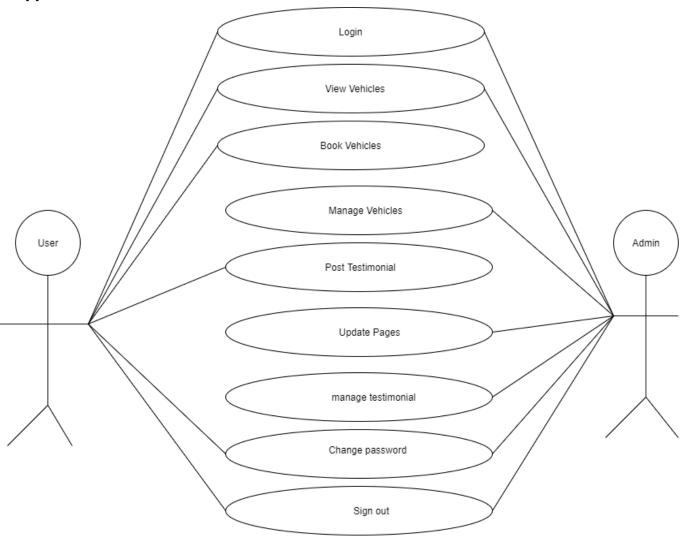
- CPU Intel Core 2 Duo E7300(min)
- RAM 512MB (min)
- Hard Disk 80GB(min)

Software:

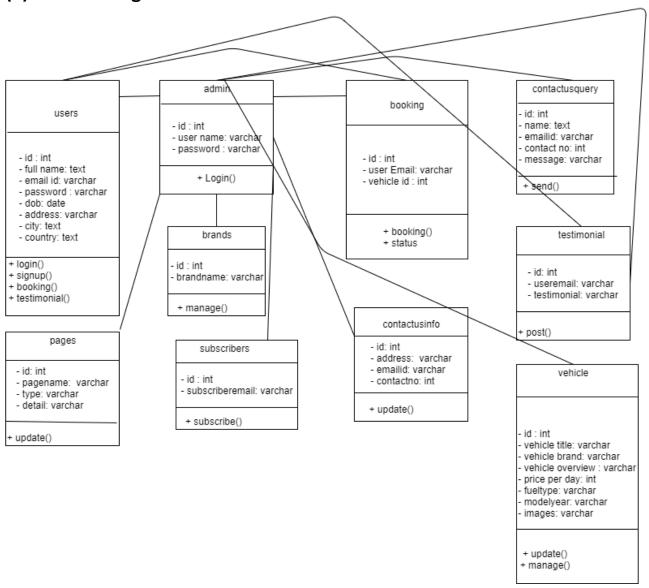
- ✓ Localhost (XAMPP control Panel)
- ✓ IDE(ATOM) for developing code
- ✓ MySQL as the DBSM for database

Design Phase

(i) Use-case:

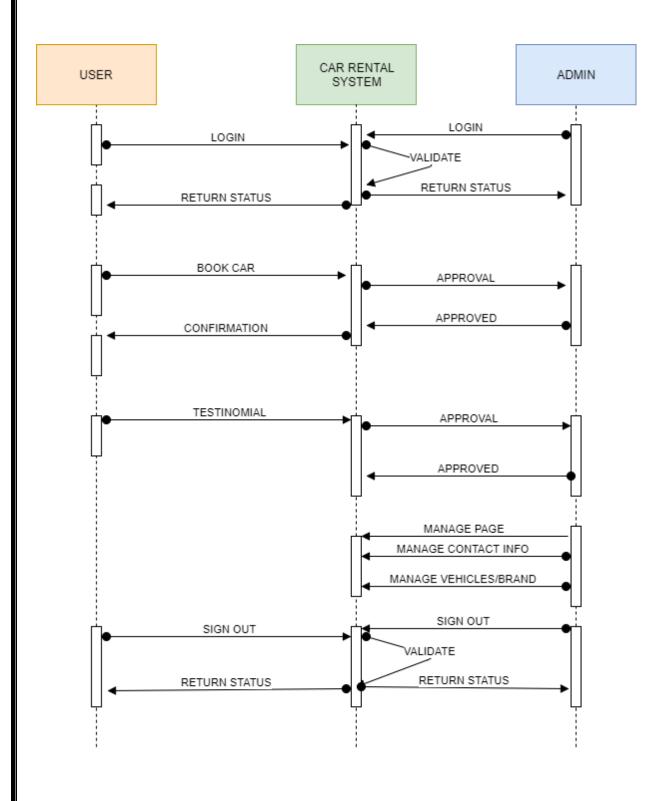


(ii) Class Diagram:

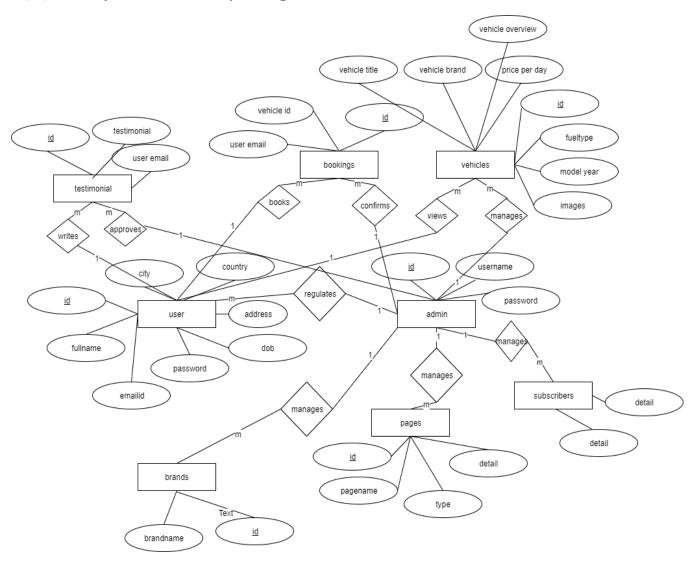


(iii) Schema Diagram: admin contactusquery booking users name emailid user name contact no message password id full name user Email email id password vehicle id dob m address city brands testimonial country id id brandname user email testimonial contactusinfo m pages id subscribers address emailid id vehicle contactno pagename subscriber email type detail vehicle title vehicle brand vehicle overview price per day fueltype modelyear images

(iv) Sequence Diagram:

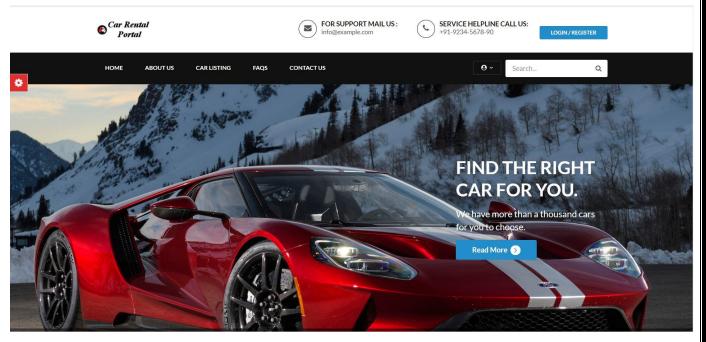


(V) Entity-Relationship Diagram:

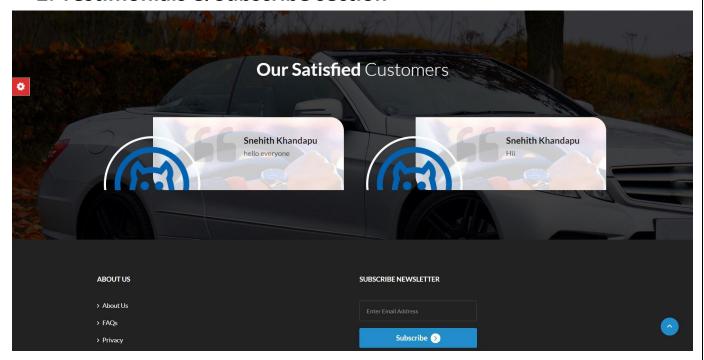


Snapshots of the Project

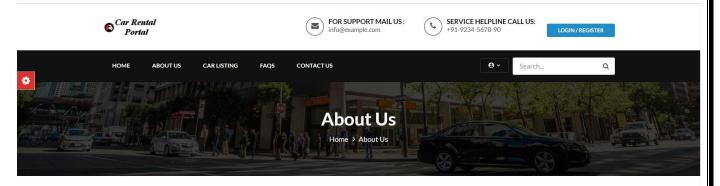
1. Homepage



2. Testimonials & Subscribe section



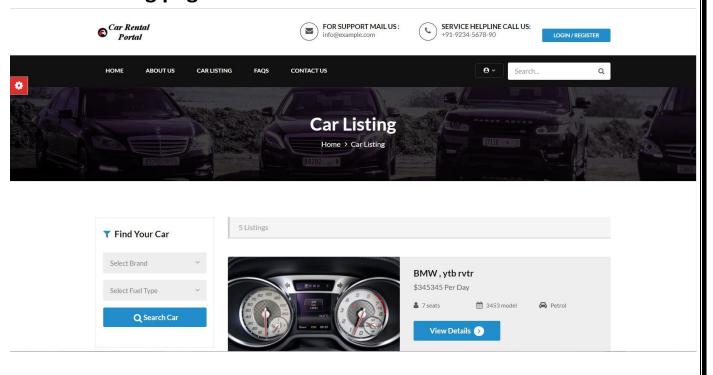
3. About us page



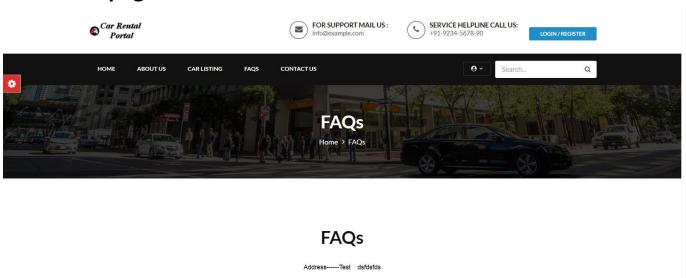
About Us

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat

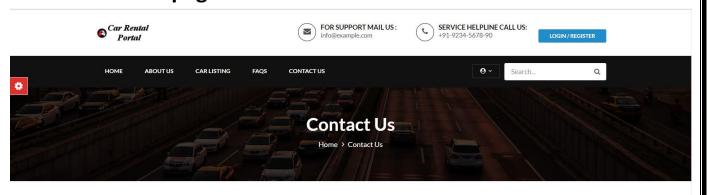
4. Car listing page



5. FAQs page

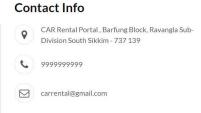


6. Contact Us page

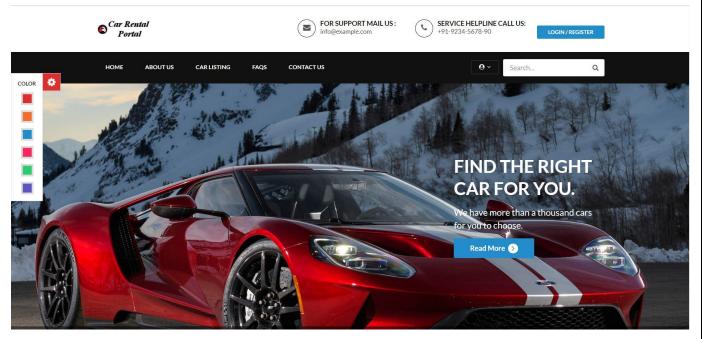


Full Name * Email Address *

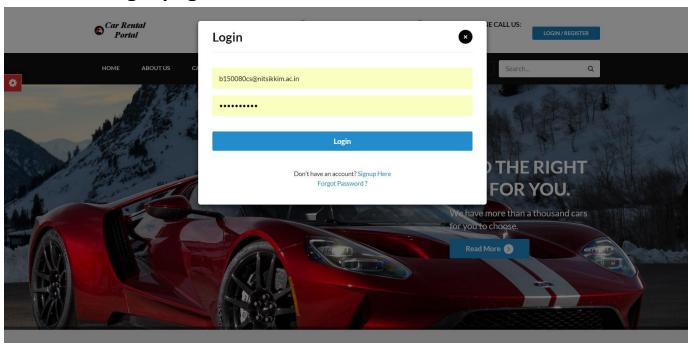
Get in touch using the form below



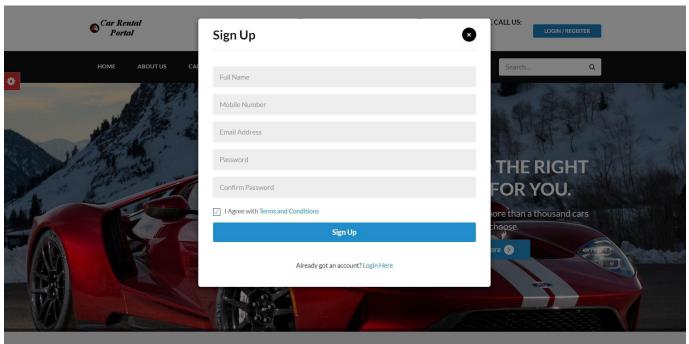
7. Change color of buttons here



8. User Login page



9. User Signup form

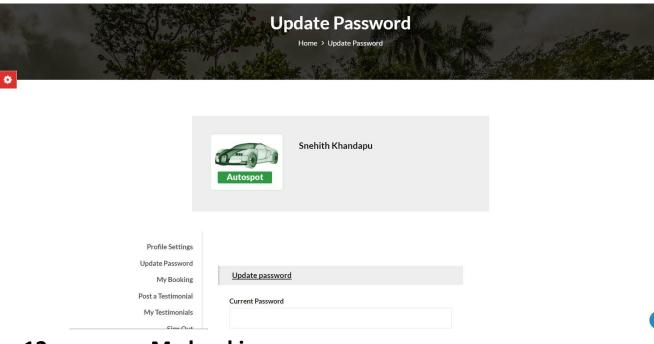


After logging in 10.

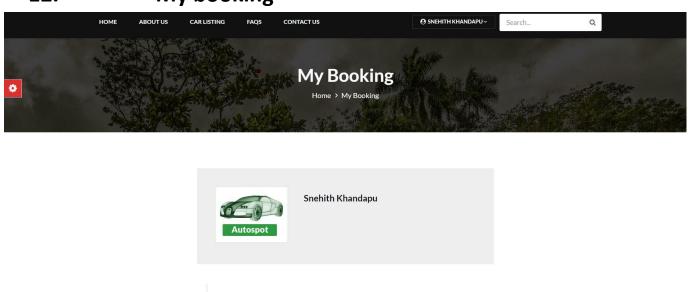


GENRAL SETTINGS Profile Settings Update Password Reg Date - 2017-11-05 21:49:44 My Booking Full Name Post a Testimonial Snehith Khandapu My Testimonials Sign Out Email Address

11. Update Password



12. My booking



Profile Settings
Update Password
My Booking
Post a Testimonial

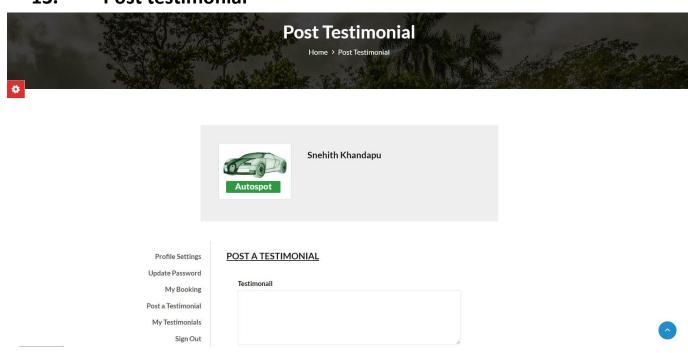
MY BOOIKNGS



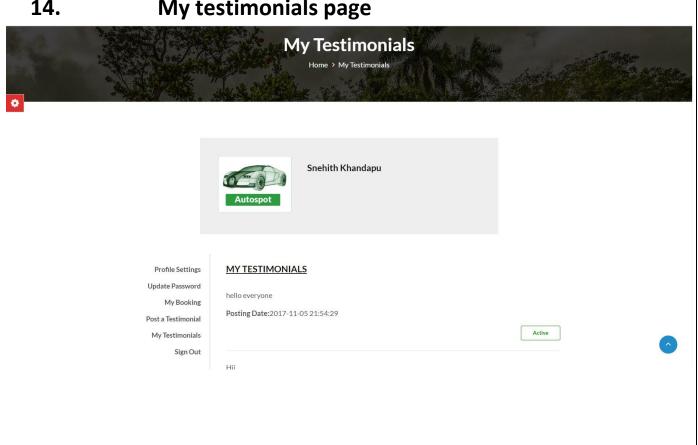
Confirmed

Message: plzz

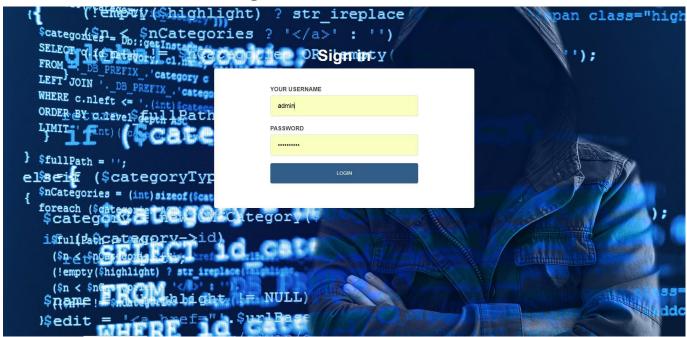
Post testimonial 13.



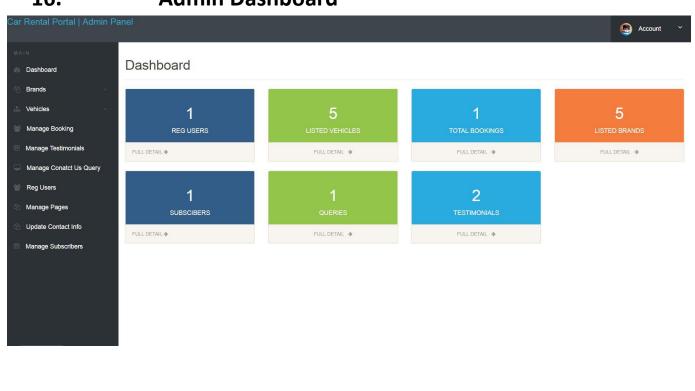
My testimonials page **14.**



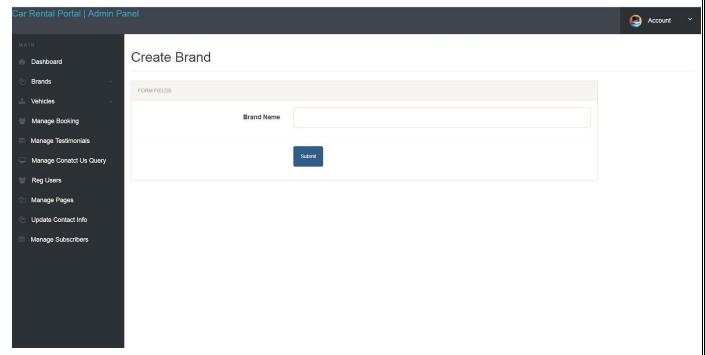
15. Admin Login



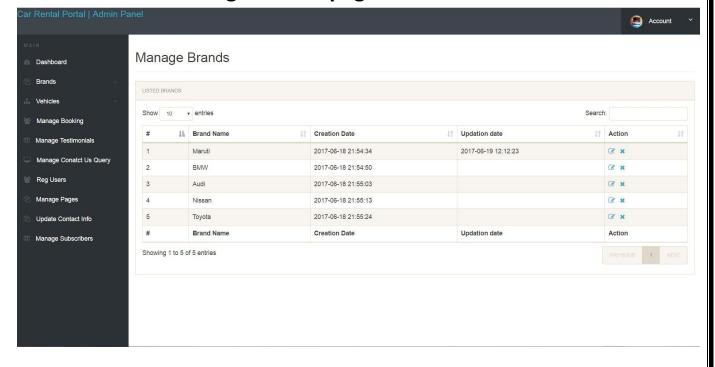
16. Admin Dashboard



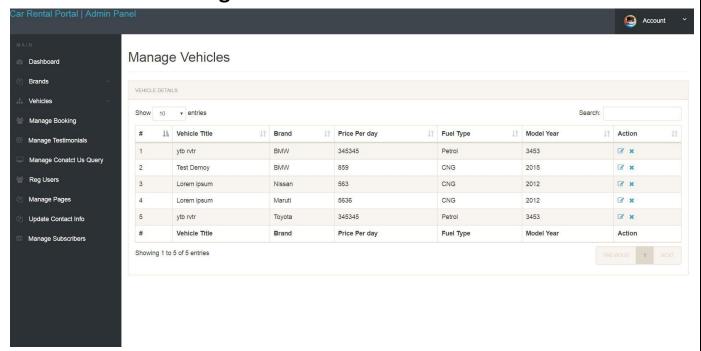
17. Create Brand Form



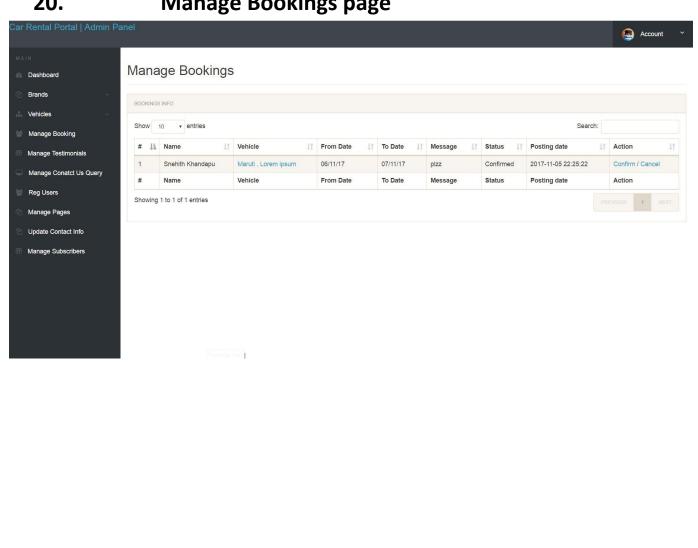
18. Manage Brands page



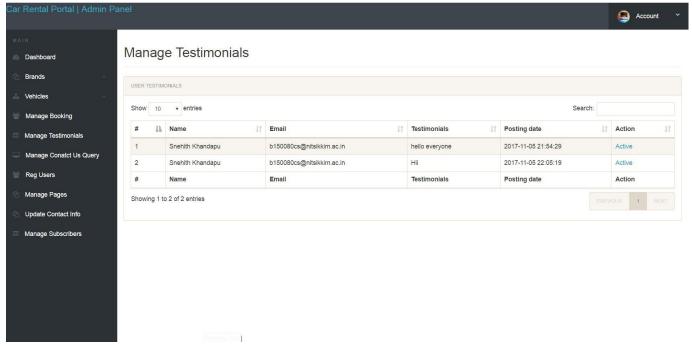
Manage Vehicles form 19.



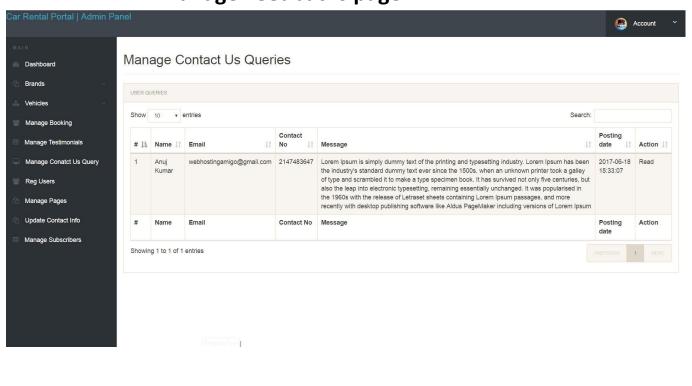
Manage Bookings page 20.



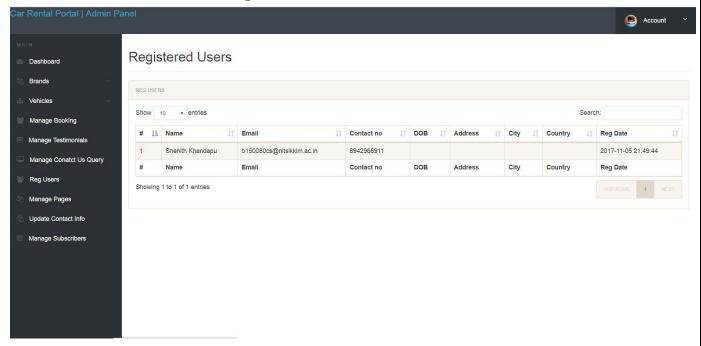
21. Manage Testimonials Page



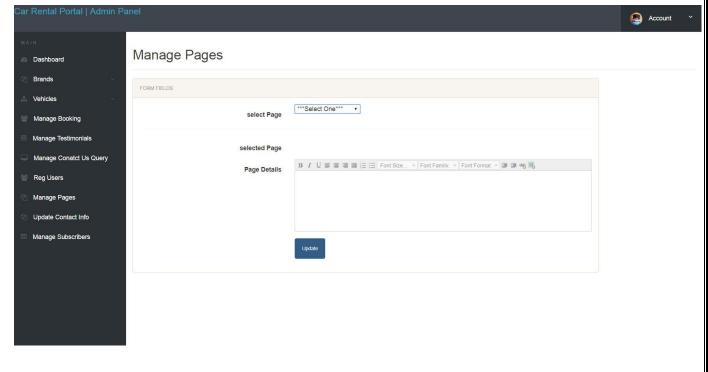
22. Manage Feedbacks page



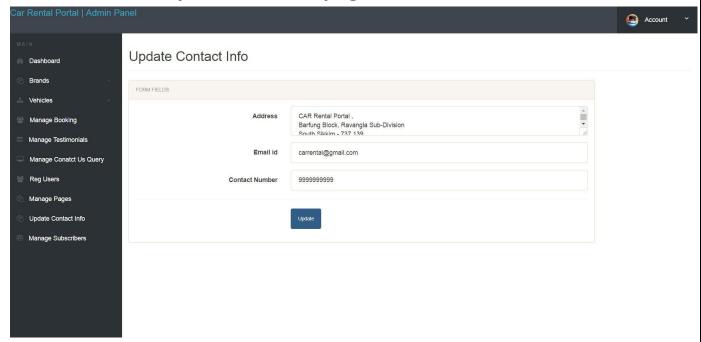
23. View Registered Users



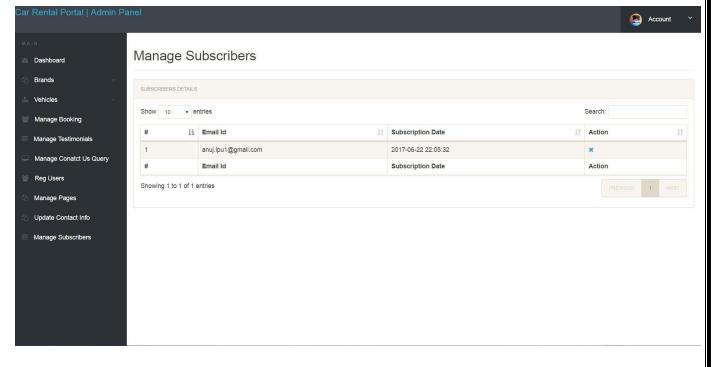
24. Manage Pages

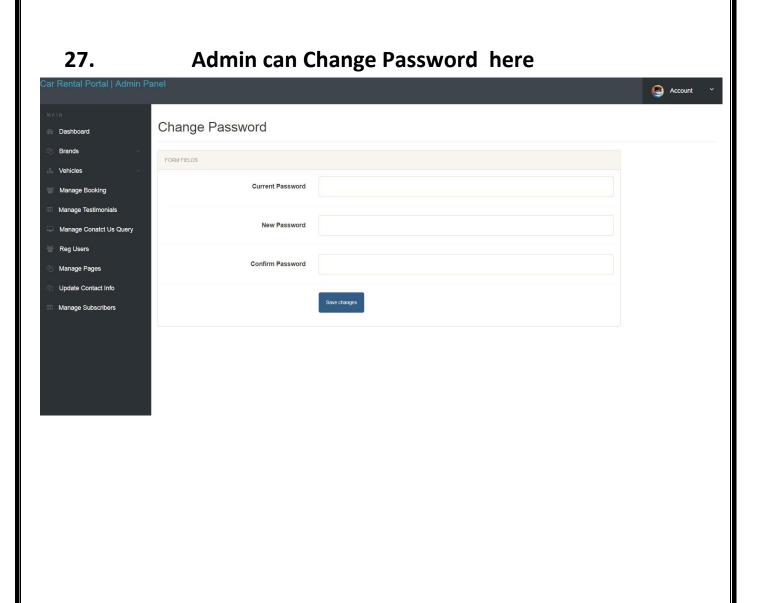


25. Update Contact page



26. View Subscribers here in this page





Limitations

My project meets the following limitations:

- (1) The software not allows to login if the user / admin forget the password.
- (2) The software not allows to take print of any list.
- (3)The software not allows payment through embedded online payment gateway.

Future Scope

- Authentication using gmail, facebook accounts.
- Printing of lists.
- Payment through online payment gateway.
- SMS alerts to the user.

Conclusion

Practical Training is a very important part of the curriculum as it strengthens the concept sand enhances knowledge about the practical implementation of all the theory concepts, I have learnt so far in this subject due to practical session.

Although the project work has been done in a complete and detailed manner, I could not include some more features I wanted to. I left these features as a part of the future development.

So the present system is very efficient and robust for the small car rental ecommerce companies. Adding the above mentioned features can make it eligible to use by the medium and big car rental companies.

References

Book used:

- 1. Henry F Korth, Abraham Silberschatz, "Database system concepts", McGrsw-HillInternation editions, Computer Science Series (1991). Second Ed.
- 2. Software Engineering ,McGrsw-Hill Internation editions.

Sites Referred:

www.google.com

www.w3school.com

www.scribd.com

www.getbootstrap.com

www.uber.com/en-IN/

www.olacabs.com

www.wikipedia.org