Software Requirements Specification
For the
Project
"RentAndRide"

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Date Created :
10/03/2021

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1. Introduction

1.1 Purpose :

The Purpose of this web application named **"RentAndRide" i**s to

enable the users/customers to search for the rental vehicles so as to

book a ride from them by reserving them.Moreover, this

application also provides an option to either register **As a**

Customer or **As an Employee** where Customer will reserve the

car for a ride and Employee will perform the tasks such as

managing the inventory of cars, handling the rental returns,

viewing the customer information, etc. Moreover,there is an **Admin** who will either

approve or decline the request for the Employee Registration.

1.2 Document Conventions :

This document uses the following conventions :

 - ER diagram : Entity-Relationship Diagram

1.3 Product Scope :

The purpose of this web application is to ease the car ride booking/reservation for the customers and to also create a convenient and easy-to-use application for the customers.The system is based on a relational database named "MySQL" which stores the information about the different Cars,Customers and the Employees which will allow to easily retrieve the required data within the application. Above all, we hope to provide a comfortable user experience along with the best pricing available.

2. Overall Description

2.1 Product Perspective

This web application stores the following information :

Customer Details :
It includes Customer Name,address,email,Driving License Number and phone.
Employee Details :
It includes Employee Name and email.
Car Details :
It includes the Car brand name,model name, year and type.

2.2 Product Features

Following are the **Features** of the Product :

Customer Registration.
Customer Login.
Viewing Customer Profile by the Customers themselves.
Only Viewing the Car Inventory by the Customers.
Making a Car Reservation.
Employee Registration.
Employee Login.
VIewing Customer Profiles by the Employees.
Viewing and managing the Car Inventory by the Employees.
Car Inventory will contain the Car Brand,Car Model,Car Year and Car Type.
Admin can either approve or decline the request for the Employee Registration.

2.3 Operating Environment

Operating environment for the system is as listed below.

- Client/server system
- Operating system: Windows/Mac/Linux
- Database:MySQL
- Front End : HTML,CSS and JavaScript
- Back End : JavaScript and Node.js

3. System Features

The System Features cover both Functional and Non-Functional Requirements:

3.1 Functional Requirements

Following are the **Functional Requirements** for this web application :

S.NO	Module/Feature	Function
1	Customer Registration	It will allow the customer to get registered on the website.
2	Customer Login	It will allow the customer to log in into his/her account.
3	View and Edit Profile	It will allow the customer to view his/her profile and also to edit it.
4	View Inventory	It will allow the customer to only view the inventory.
5	Make and Cancel a Car Reservation	It will allow the customer to make and cancel a Car Reservation.
6	Employee Registration	It will allow the employee to get registered on the website.

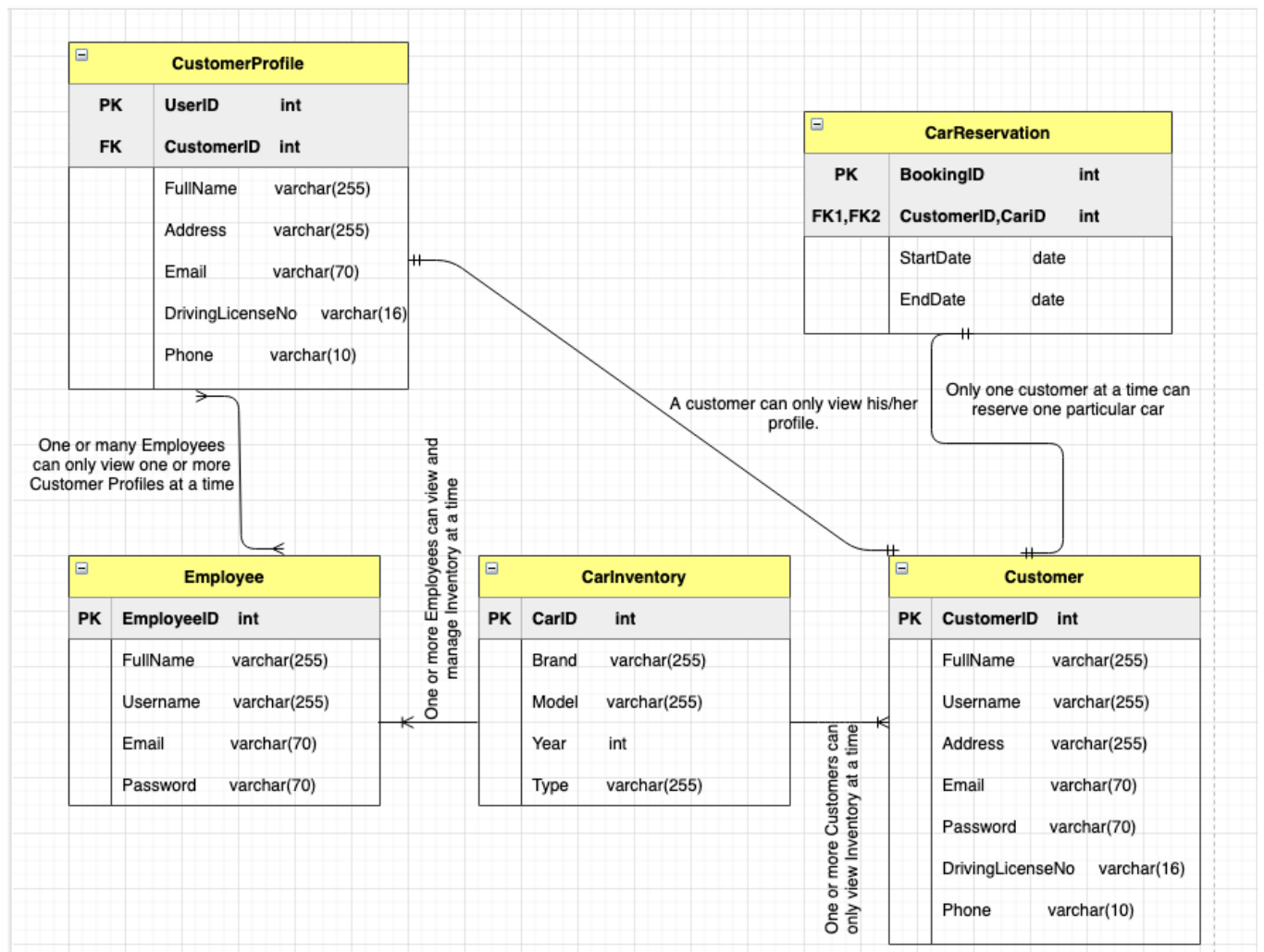| 7	Employee Login	It will allow the employee to log in into his/her account.
8	View Customer Profiles	It will allow the employee to only view the customer profile.
9	Manage Inventory	It will allow the employee to add, update and remove the cars from the inventory.
10	Return Reservation	It will allow the employee to make sure that the rented car is returned or not.
11	Car Brand	It will display the name of the car brand.
12	Car Model	It will display the model of the car.
13	Car Launched Year	It will display the year in which the car was launched.
14	Car Type	It will display the type of car that whether it is Luxury,Economy or SUV.

3.2 Non-Functional Requirements

Following are the **Non-Functional Requirements** for this web application :

- **Security** : The website should be secure which means that all the data inside the system or its part will be protected against malware attacks or unauthorized access.
- **Maintainability** : The website should be easy to maintain which means that a bug can be fixed easily.For Example, if you have 75 percent maintainability for 24 hours, this means that there's a 75 percent chance the bug can be fixed in 24 hours.
- **Response Time** : The website should have a good response time and it defines how fast a software system or its particular piece responds to certain users' actions under certain workload.For Example,it should be less than 200ms in 80% of cases, and less than 2sec in 20% of cases.
- **Reliability** : The website should be reliable which defines how likely the system or its element would run without a failure for a given period of time under predefined conditions.For Example, if the system has 85 percent reliability for a month, this means that during this month, under normal usage conditions, there's an 85 percent chance that the system won't experience critical failure.
- **Availability** : It describes how likely the system is accessible for a user at a given point in time.It can also be defined as a percentage of time the system is accessible for operation during some time period. For Example, the system may be available 98 percent of the time during a month.
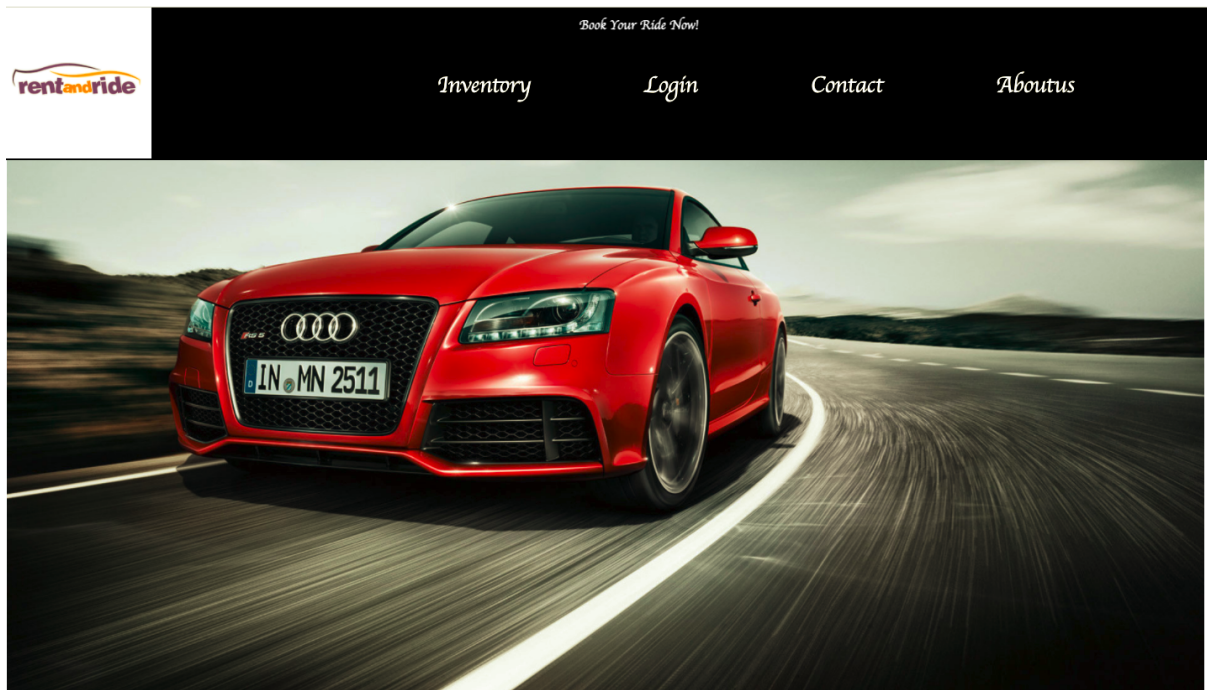
4. Other Requirements

4.1 Appendix

It includes the **Entity-Relationship Diagram** which is as follow :

It also includes the **mockups/design** for the pages of the application which are as follow :

Customer Login

Username

Password

Sign in

Register Now

Customer Registration

Full Name

Username

Address

Email

Password

Driver License Number

Phone

Create Account!

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Employee Login

Username

Password

Sign in

Register Now

Employee Registration

Full Name

Username

Email

Password

Create Account!

Welcome to Car Inventory

Brand	Model	Year	Type
Honda Reserve Now!	Honda Accord LX 1.5T	2020	Economy
Honda Reserve Now!	Honda Civic Coupe	2020	Economy

Welcome, to RentAndRide

How do you want to continue?

As a Customer

As an Employee

My Profile

Full Name

Address

Email

Driver License Number

Phone

Edit Profile

Book Your Ride Now!

Date Of Reservation :

From : | 11 March,2021 📅 | To : | 13 March,2021 📅 |

Price : | CAD 55/day |

Total Price : | CAD 110/day |

Reserve Now

Viewing Customer Profiles

Full Name	Username	Email	Phone
Rahul Kumar	RK100	Rahul100@gmail.com	5149189623
Rohit Sharma	R01	Rohit1@gmail.com	5149489623
Virat Kohli	VK18	Virat18@gmail.com	5149159293

rentandride

Adding a new Car

Brand : Honda

Model : Honda Civic Coupe

Year : 2020

Type : Economy

Add Car

Managing the Car Inventory

Brand	Model	Year	Type
 Honda 🗑️ ➕	Honda Accord LX 1.5T	2020	Economy
 Honda	Honda Civic Coupe	2020	Economy