Car Rental Services

High Level Design

1. Introduction
   1. Purpose

The purpose of this document is to discuss the proposed system architecture design for Car Rental Application. It addresses the technology, framework and other architectural decisions for proposed model.

* 1. Scope

Scope of this application is to present users’ option to rent a car as well as offer their car for renting purpose.

* 1. Target Audience

User who is looking to rent a car in city areas and User can select the cars depending on his choice (SUV, Sedan, Mini), distance (intercity and outstation) and time duration (hours, days, weeks etc...).

1. Presentation Layer

The Presentation layer is responsible for managing user interface of the application. This Layer allows the user to interact with the application. Following technologies are used to create the UI:

* ReactJs
* HTML
* CSS
* JavaScipt
* Bootstrap

1. Business Layer

This layer consists of component that implements the business login of application. This includes Application programming interface which connects Presentation layer to Business classes and database.

* 1. NodeJs

1. Data Base
   1. Mongo DB
2. Development Tools

IDE: Visual Studio Code

Testing Tool: Postman

Configuration Manager: Git

Libraries: ReactJs, Bootstrap

Browser support: Chrome, Mozilla, Edge, Opera, Safari

**DB Schema**

Login

User Details

UserID

UserName

FirstName

LastName

Age

Address

DrivingLicense

Phone

Username/email/Phone no.

Password

OTP

Booking Details

CarDetails

Booking id

Booking date

Amount

Duration

Userid

Carid

Ownerid

Car name

Id

Registration Number

Make

Model

Status

ownerid

OwnerDetails

AdminId

Username

Password

Firstname

Lastname

AdminDetails

OwnerId

Username

Password

Firstname

Lastname

Address