**SOFTWARE ENGINEERING PROJECT(FINAL SUBMISSION)**

**CarPark**

**Version 1.0**

# **Developed By**

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## **1.Problem Statement**

The project titled ‘CarPark’ is an Online Car Parking System which aims to facilitate parking of vehicles. Here, people looking for a garage to park their vehicles can easily connect with nearby garages registered on the website and book a parking space easily through the comfort of their phones. The aim of this initiative is to reduce overcrowding in metropolitans where vehicles are parked here and there leading to traffic jams and accidents. This in turn would also help a little towards reducing pollution, and make our country a better place to live in.

## **2.TASK DONE VIS-A-VIS THE SRS SPECIFICATIONS**

There are 2 types of users:

1. Owners :

Can register their garages on the website using the official registration no. of the garage as found in government documents. They mention the types of slots available in each garage for parking of vehicles. They can add bookings, view past bookings, see current and unpaid booking alerts

2. Customers can register their vehicles on the website using the official license no. of the vehicle as found in government documents. They can search nearby garages for parking based on their location. They can also give ratings and reviews for a garage based on their experience. This feedback system is helpful for other customers in choosing a good garage.

For verification of vehicles and garages, the idea was to connect with an official government database so that illegal activities would be prevented. I made a simple implementation of this using an auto-generated file containing valid official registration/license numbers.

For Front End, I have used HTML, CSS and JSP.

For Database, I have used MySQL.

For Backend , I have used Java JDBC Driver and Java servlets as web container.

## **FURTHER ENHANCEMENT**

I had thought of adding an online payment feature for booking a slot in a garage but due to errors I couldn’t do it. For verification of vehicles and garages, the idea was to connect with an official government database so that illegal activities would be prevented. And for the maps part i.e searching for nearby garages based on one’s location,, I had thought of using Google Maps API but I later got to know that it is not free so I couldn’t use it , and I settled on making a small implementation through graphs.