

Course Name: Documentation of software engineering

Course Code: SWE-131

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**Project Proposal**

On

**Car parking Management System**

I am Mahedi Hasan. This semester I want to make project using Java programming (java), sql server, GUI Framework etc. Actually it’s a very good opportunity for me to make a project with your guideline. By this project I am going to show you what I learned from object oriented programming. I am trying my best to make this project very successful. I humbly ask for seek your guideline for this Project from you. The project will take 4 months (estimated) probably to finish

***Aim and Objectives***

This project aims to develop a car park reservation system to address and tackle the above daily problems. This system will consist of a membership system which will allow car parking operators to manage their car parks and their customers activities, it also includes a mobile-based client for car park searching and making reservation, which would be used to search for and locate the nearby available car park with geometry information as well as reserving for a guaranteed parking space in advance .This project will be improved for the above situation through employing and using software with latest technology . Ultimately, saving in time, fuel and a better parking experience could achieved by using this system

**Outcome:**

**System Overview**

This prototype of car park reservation system consists of two parts – a web-based management system for car park management user, and a mobile-based system which consists of a range of features as revealed.

The system is a web management front-end to support car park reservation from registering member, making reservation to vehicle cheek-out. It consists of a membership system which allow customer to join as different membership group which each group are having difference benefit and restriction setting, it also allow car park operator to manage and monitor their customer behavior by logging and viewing activities history, it also consist of a reservation system which member to make reservation in advance , it allow car park operator to manage reservation , for instance , adding, updating and modifying reservation on behalf of the member, and supporting check-in of vehicle when user arriving as well as check-out of vehicles when user is leaving the car park.

The mobile client will be mainly used by driver, it is a mobile-based system which enable driver for searching car park and reserving a guaranteed parking space in advance. In our prototype, user can search and view the essential information of a car park for drivers parking needs, such as current utilization, available parking spaces, charging rate, phone and address. The searching module consist of two type –text based and map based.

Ultimately, saving in time, fuel and a better parking experience as well as enhancing the quality of service could be achieved by using this system and lead to a win-win situation for both parties

**Proposed Activities:**

**Project Requirements:**

* **Project Proposal:** Firstly, I create and submit my project proposal.
* **Authentication System: Car Parking Management System.** has an authentication system.
* **System design**: I will use GUI
* **Ensuring security**: I will use spring security in this part.
* **Development (Coding):** Programming language: java and framework: GUI
* **Feasibility Study:** This project has some problem. I will fix it and solve it successfully.
* **Documentation (UML Diagram):** I will create a successfully documentation in this project.

**Time & Cost Estimation**

**Activity list:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Activity name** | **Durations** | **Dependency** |
| A | Project Proposal | 5 | **--** |
| **B** | Authentication System | 5 | **A** |
| **C** | System Design | 15 | **B** |
| **D** | Ensuring Security | 10 | **--** |
| **E** | Development (Coding) | 40 | **B** |
| **F** | Feasibility Study | 10 | **B** |
| **G** | Documentation | 10 | **F,C,E,G** |

Overall 95 days.

**Cost:** Only Internet bill will be provide

**Technology**: Programming language: Java Programming.

Framework: GUI

**Idea**: Some features/description of this project are:

**Profiling**: Mainly every user can park their car. They are update his/her profile all time.

**Car Parking System**: Registration is main in this part.

**Administrative System**: Admin can block all restricted user and also help them in any ways

**Usability**: Car Parking system is an online project and that's have many advantage to the targeted client. They are use all features of this project. Overall targeted client uses this project, they will have benefited known about well production, and save their valuable time fuel and others.

**Innovation**: This project is online based, and it’s also help people for parking a car and help in many other way.

**Data Flow Diagram**

