

COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE

COAL

Subject: Proposal

Project Phase: I

Section: BCS-4B

Participants: 2

Submitted To Respect Sir: Shakir Ullah Shah

Participants:

Our Group consists of 2 members.

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Project Title:

Parking Management System

Description:

The Parking Management System is a system that includes all the functionalities that are most commonly used in the **majority of the Parking Lots**. The system keep record of all the entities that are within the premises of the Parking Lot. **Parking Management System** working starts from the **Entrance by keeping the record of Every single vehicle** entering the Parking Lot to its checkout from the Parking lot.

Our Parking Management System covers the same aspects like the majority of the Parking systems. In the start, the system will ask about the entries. The user have to input the type of vehicle entering the Parking Lot. According to the type, the system will issue the **respective entry ticket** to the vehicle. After it, different types of vehicles will enter the parking lot according to the users choice. **The category will contain 6 different vehicles types** as mentioned below.

- **Motorbike**
- **Car**
- **Bus**
- **Cycle**
- **Truck**

The vehicle can be of any type mentioned above. The system will issue the ticket according to the vehicle type. The Heavy automobiles like trucks and buses will have a a bit high ticket cost while the ticket costs of the small vehicles like car, motorbike and cycle will be relatively lower.

In addition to it, our system will not only issue the ticket to the vehicles but also it will calculate the total tickets cost which is **commonly known as revenue generated**. With

the addition of each vehicle, a separate entry will be made in the system and the collective cost will be recorded side to side.

After the entries in the Parking System, we will have round about 8-9 functions within the Parking Lot.

These functions will include, the check of the total record of the vehicles like types of vehicles present in the Parking Lot. Total revenue generated after selling the tickets. Removal of **small vehicle like cycle. Removing of automobile like car along with the removal of its ticket cost from the total cost.** Similarly, removal of the motorbike along with its ticket. In addition to it, the removal of the Heavy Automobiles like truck and buses along with their ticket costs will also be included in our Parking Management System.

Aside of it, we will ensure the removal of every vehicle with a descriptive message. In addition to these functions, our system will also have a reset functionality. With the reset function, **the whole record of the vehicles,** vehicle types, their ticketing costs, the total revenue and their record in number will be cleared. At last, we will create a **Logout from the system.** After the use, the User will have a functionality to successfully logging out from the Parking Management System.

Objective:

The main objective of our Project is to provide you with the intermediate level Parking Management System in order to run your parking lots by having a proper check and balance of it. Also, our system will perfectly handle the different types of automobiles by keeping the record separately and dealing all the vehicles as a different entities. So by this project. **It will become a lot easier to manage your parking lots with Revenue generation and proper entry departure functionality.**

Prototype: Key 1,6,7 Pressed

Press 1 for Motorbike Parking
Press 2 for Car Parking
Press 3 for Bus Parking
Press 4 for Cycle Parking
Press 5 for Truck Parking
Press 6 to check all the previous record
Press 7 for the removal of Motorbike from the parking
Press 8 for the removal of Car from the parking
Press 9 for the removal of Bus from the parking
Press 10 for the removal of Cycle from the parking
Press 11 for the removal of Truck from the parking
Press 12 to Clear all of your previous record of Parking from the System
Press 13 in order to Exit from the Parking Management System

The Parking can accomodate a maximum of 12 Vehicles at a time.

Press 1 for Motorbike Parking
Press 2 for Car Parking
Press 3 for Bus Parking
Press 4 for Cycle Parking
Press 5 for Truck Parking
Press 6 to check all the previous record
Press 7 for the removal of Motorbike from the parking
Press 8 for the removal of Car from the parking
Press 9 for the removal of Bus from the parking
Press 10 for the removal of Cycle from the parking
Press 11 for the removal of Truck from the parking
Press 12 to Clear all of your previous record of Parking from the System
Press 13 in order to Exit from the Parking Management System

The Parking can accomodate a maximum of 12 Vehicles at a time.

Bike Charges are: 30

Total Ticket Revenue Is: 30
Total Numbers Of Vehicle Parked: 1
Total Number Of Motorbikes Parked: 1
Total Number Of Cars Parked: 0
Total Number Of Buses Parked: 0
Total Numbers Of Cycles Parked: 0
Total Numbers Of Trucks Parked: 0

Bike Successfully Removed