

University of Xi'an Jiaotong-Liverpool

School of Advanced Technology

CPT106: User's manual for Car Parking System

Contents

1	Brief	Introduction · · · · · · · · · · · · · · · · · · ·	2
2	prod	uct character · · · · · · · · · · · · · · · · · · ·	3
	2.1	diversity and Searching · · · · · · · · · · · · · · · · · · ·	3
	2.2	Fee for parking · · · · · · · · · · · · · · · · · · ·	3
	2.3	displaying board for free spot ······	3
3	For i	nanager·····	4
	3.1	Searching ·····	4
	3.2	Tools for editting spot ·····	5
4	For o	customers·····	6
	4.1	Full Notice	6
	4.2	paying	6
	4.3	Searching ·····	7

1 Brief Introduction

This Car Parking System aims to provide efficient management of parking vehicles in a parking lot. It enables administrators to handle parking spot and customer information, ensures the parking lot doesn't exceed its capacity, supports various types of parking spots, facilitates searching for unoccupied spots, displays available spots on each floor, and implements a per-hour parking fee model for customers.

2 product character

2.1 diversity and Searching

This system allow administrator and customer to search for all unoccupied parking spots and it support multiple types of parking spots. There are spots for a specific type of vehicle, i.e., car, trunk, van, motorcycle etc.

2.2 Fee for parking

The system support a per-hour parking fee model. For example, the first hour is free, and customers have to pay \$3 for the remaining hours, maximally \$50 per day.

2.3 displaying board for free spot

Each parking floor has a display board showing any free spot for each spot type. Besides, if the parking is full, the system will show a message to the customer.

3 For manager

3.1 Searching

By entering account, password and floor, managers can easily get each floors information.



Figure 1: The informations of each floor

3.2 Tools for editting spot

The managers can browse, add, modify and delete spots and customer information

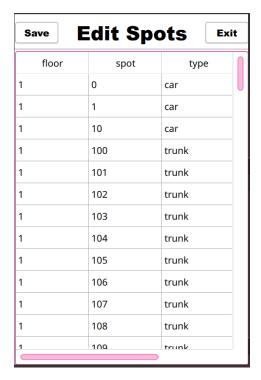


Figure 2: The editor's UI

4 For customers

4.1 Full Notice

Customers will get a notice if the parking is full.

And customers can get the information from the display board.

4.2 paying

When customers enter the park, they can choose the type of vehicle and enter the license plate number.

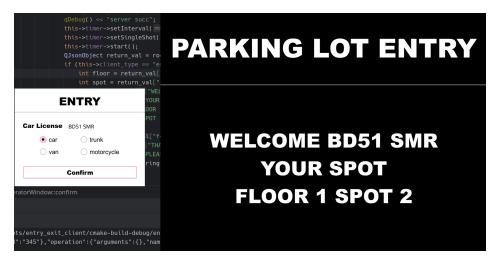


Figure 3: The entry UI

Then if customers are going to exit the park, this system will calculate the bill and offer port to pay.

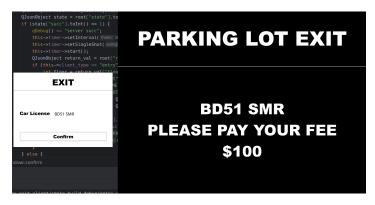


Figure 4: The exit UI

4.3 Searching

By entering account, password and floor, customers can easily get each floors information.



Figure 5: The informations of each floor