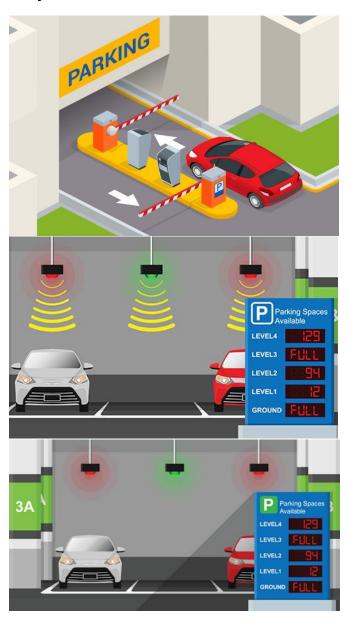
Shopping mall parking management system

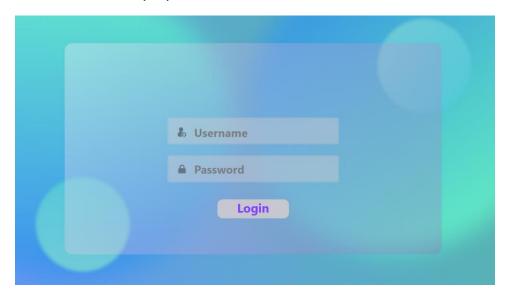
Project theme:

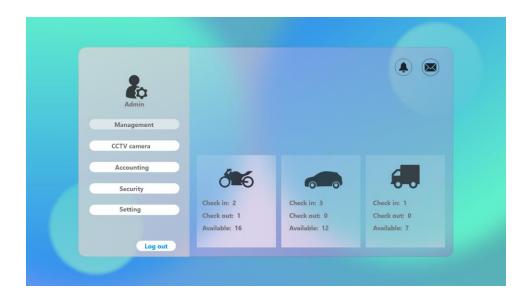




This is an admin-based software.

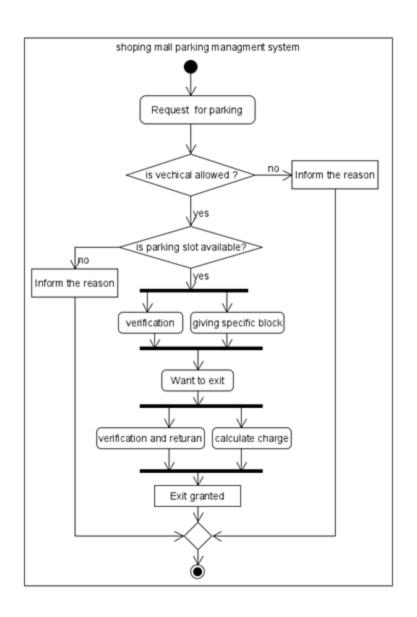
Admin Screen (UI):





Activity Diagram

When a vehicle user requesting for parking. The controller checked in the database if the vehicle is allowed for parking vehicle or not. If the vehicle is allowed, it further checks if the parking slots is available or not. If parking slots available, then controller collect Information of the vehicle. When a vehicle wants to exit then the controller verifies all information if all verification done return the duration and calculated the amount at the same time. Then the vehicle can exit.



Class Diagram

Shopping mall parking management system Vehicle user System +VehicleChack : boolean +free blockChack : boolean=yes -fingerprint : object +fingerprint : object +entryTime : Datetime +entryTime: Datetime -numberPlate_Image : ImageType +blockNumber : int -cardNumber: int +amount: int[0....*] +ExitTime: Datetime +cardNumber: int Authentication () +set fingerprint () update_free_blockChack() +get fingerprint () Bill_confirmation() +set cardNumber() +get cardNumber() +get numberPlate_lmage() Admin Charge reception +entryTime: Datetime -Usemame : String(none) -password : String +blockNumber : int +Make bill: int[0....*] +vehicle user :Vehicle user[0...*] +cardNumber: int +charge reception : Charge reception +system : System Bill confirmation() +Make_blockFree() +Admin(Username: String,password: String, vehicle user: Vehicle user ,charge reception :Charge reception, system : System):void +set Username (Username : String) +get Username() +set password(password : String) +get password()

Database

```
Vehicle User:

CREATE TABLE IF NOT EXISTS `vehicle_
user` (

`id` int (10) NOT NULL auto_increment,
`vehicale_type` varchar (255),

`fingerprint_` varchar(255),

`card_number` varchar (255),

`number-plate image `varchar (255),
```

`entry_time` datetime,

PRIMARY KEY(`id`)

);

Vehicale Type	Fingerprint Card Number	Number-plate image	
Byke	208547		03/04/21 3:39 pm
Cargo Van	7742298		03/04/21 11:40 am
Car	2323490		03/04/21 5:30 pm
Car	4546209		03/04/21 6:30 pm
Car	745362		03/04/21 10:40 am