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1.0 Abstract of Online Parking Management System (OPaMS)

***Abstract:** Transportations are important in daily activities because easy to move to other location. In Malaysia, many of people have their own transportation such as cars because it more safety from crime and reduce physical damage from incident on road. At same time, it need properly parking spaces for cars to avoid from congestion. However, many of people parking car in not properly can cause congestion. Besides that, many of people have difficulties to checks spaces available or not. Therefore, this system will be improved from all aspects to people such as easy to find parking spaces, to avoid from congestion and parking place become more systematic. The objectives of Online Parking Management System (OPaMS) to assist the drivers in select or reserve online parking through accessed on system platform. Online Parking Management System (OPaMS) have a good function which are to enable parking monitor, details of drivers information and how many time drivers are visited. Furthermore, the system can be commercialized to international company, shopping mall, condominium and sports activities area.*

Keywords: Congestion, Drivers, Parking

2.0 Overview of the project

Transportation is most important in daily life because to assist drivers and passengers to go to places that their planned. There are many types of transportation which is car, motorcycle, bus and others. All transportation except car is easy to find parking places in city. Actually, the system is more focus on car because to assist properly parking for each car in order to make properly parking in places which is shopping mall, small company and others places. Nowadays, every people have their own transport such car. Car is transport that frequently used by drivers because they can go many places for business, restaurant and others. When have a car, it also have parking for cars. When discuss about parking, parking is most important element in the country because to make temporary parking for drivers to go their places which shopping mall, sports activities area and others places.

Nowadays, in term of modern city, parking place is important in the world especially in the cities. Every day, there are has thousands of car drives spend a lot of time to find which are the better place to park their car. It has conflict that happen such as park car in not properly can cause increasing congestion on parking area. In order to solve a lot of conflict, the implementation of Online Parking Management System (OPaMS) is to managing parking places with systematic and efficiency.

Online Parking Management System (OPaMS) is system to provide to the drivers/users in order to find parking for each car. The system is involve within drivers/users and admin. The system can be used for any places such as small company, shopping mall and others. By having this system, it assists to the drivers/users to a good find parking places for their cars.

2.1 Statement of problem

Based on observation, it has a lot of statement of problem about Online Parking Management System (OPaMS).

2.1.1 Improper parking place

Many of people are used the cars and drive to places such as office, shopping mall and other. As drivers, it need take longer time to find a free space to parking. Sometimes, the parking place is full and it can be difficult to driver to parking their car. When parking places are not enough in place such as small company and others places. It has issue or barrier in parking places. Driver need make double parking to easier in locate the car. But, double parking on others car can be problem to other drivers because it can be congestion. If has many of car make parking like that, it has problem in parking can cause congestion.

2.1.2 First come first serve

At parking place, every drivers/users can park one car. When have the system, drivers/users are can fulfill in the system to get parking places. Meaning that, it related to the drivers/users that who are drivers/users fulfill in system early will get parking places. In this ways, even drivers/users are lately arrived. It not problem for any of car that parking at their places because the places will be reserved for who are drivers/users early fulfill in the system. Even the drivers lately arrived, the system still provide parking place to the drivers/users as good as possible.

3.0 Developer profile (CV)



Profile

Name	Muhammad Salehuddin Bin Zainal Mazri
Age	Batu 52 ¼ ,Jalan Segari, Sungai Batu 34900 Pantai Remis, Perak
Address	
Email	zm.salehuddin@gmail.com
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Date of Birth	29-09-1996
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Academic Qualification

2013-2016	Bachelor Degree in Information Science (Hons) Information System Management
2010-2013	Diploma in Information Management

Skill & Experience

Language	Bahasa Melayu English Language Mandarin Language
Programming Skill	HTML, PHP, CSS, Microsoft Office and Microsoft Access
Experience	Develop a website about my biodata by using HTML -2017 Develop a HEP Proposal System by using Microsoft Access and Mysql-2017

4.0 Aims/ objectives of the project

Online Parking Management System (OPaMS) are developed in order to manage the parking management as good as possible. There are several objective of Online Parking Management System (OPaMS).

1. To allow drivers to select and reserve parking places online though accessing it on system.
2. To find a best solution to improve parking management and proper parking by drivers.
3. To minimize the problems that can be congestion during parking consequences from double parking.

5.0 Scope/limitations of the project

In order to developed systems, Online Parking Management System (OPaMS) has a lot of function on this system.

5.1 Registration to Users/Drivers

When the users access on this system, it require to get information from users include username, address, gmail and no.phone. After complete of all registration, users can proceed to fulfill the form which is upload their car in this system because easier to admin to determine which one parking for each cars. Drivers/Users are allow update their profile and delete the view parking. Users also can add new car and it will show at list of registered cars at admin menu. So, admin decide and result will be announced to the view parking at users menu. Only one user can view their own view parking which is details of parking such as date in, date out, slot name, time in and time out. Others users cannot view parking for others users. Users not allow about function of add new parking.

5.2 Admin

For admin, it can manage all users request or application to reserve parking area. The functions of admin can add new vehicles for users and also can add new parking for users. Add new vehicles which are plate, model of car, color of car and picture of car. Admin also can add new parking which are slot, time in, time out, date in, date out and inserted by admin. Meaning that, the system only admin are allow to add new parking because admin decide which want parking place that inserted by admin. For example, G3, G is refers to ground floor and 3 is refer to lot. Besides that, admin can view list of registered vehicles in order to know how many of users that register.

6.0 Milestones and Gantt chart

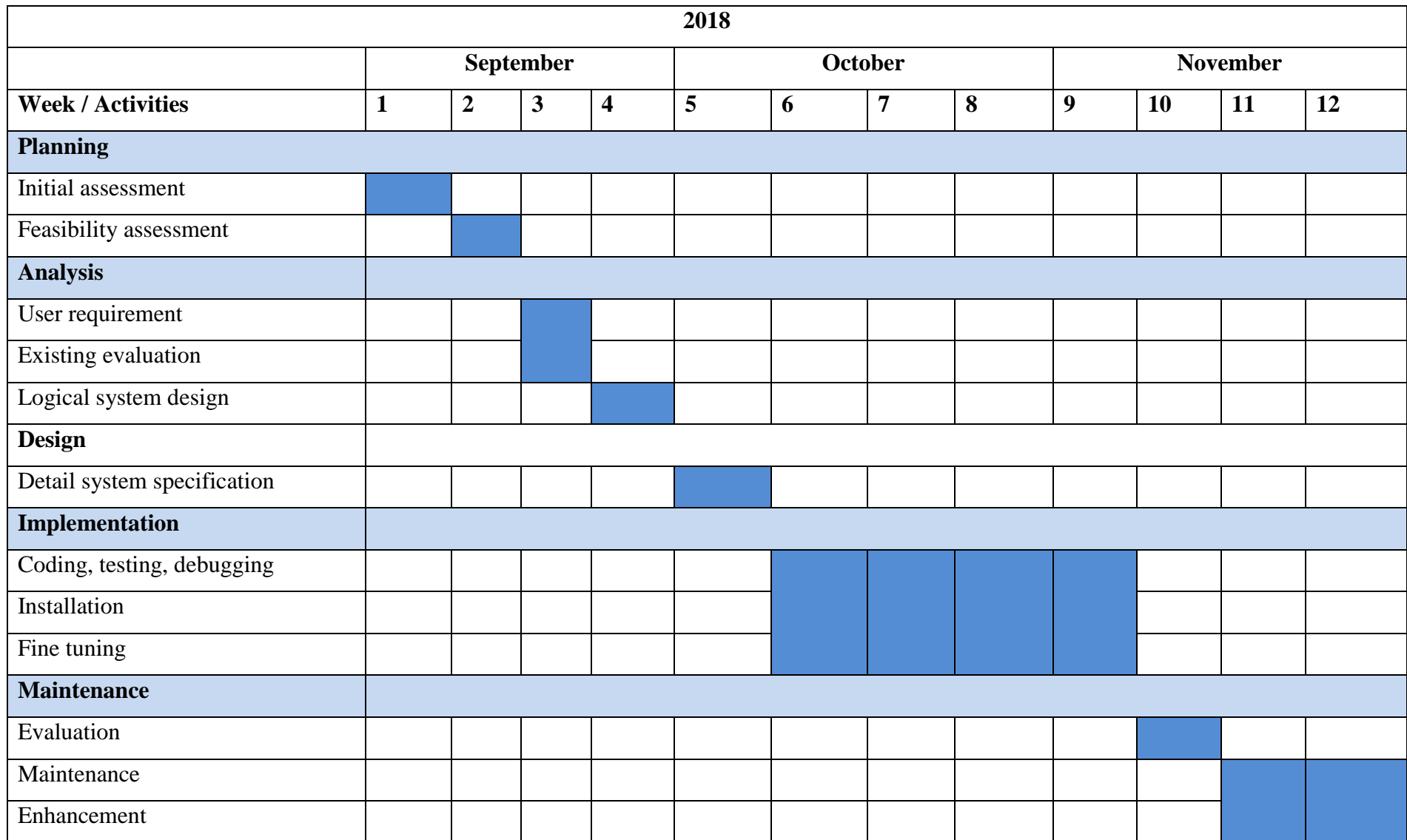


Figure 1: Milestones and Gantt chart

7.0 Estimated Budget and cost require for the project

The following is the estimate budget and cost for developing the Online Parking Management System (OPaMS).

No.	Item	Budget (RM)
1.	Hardware <ul style="list-style-type: none">• Computer	RM 1,380
2.	Software <ul style="list-style-type: none">• Wamp• Adobe Dreamweaver• Sublime	Free
	Total Budget	RM 1,380

8.0 Hardware & Software details use in the project

Hardware		
Hardware	Specification	Function
Laptop	Type: Acer Processor: AMD E-450 APU with Radeon (tm) HD Graphics 1.65 GHz Installed memory (RAM): 2.00 GB System type: 32- bit Operating System Windows 7 Ultimate	It is important element as to support for create the whole system

Software		
Software	Specification	Function
Adobe Dreamweaver	CS6	Tools that has used by developer to complete system by using combination HTML, CSS and PHP
Wamp	84-bit	As platform for web server application.

9.0 System flowchart/ diagrams (refer SDLC.DDLC)

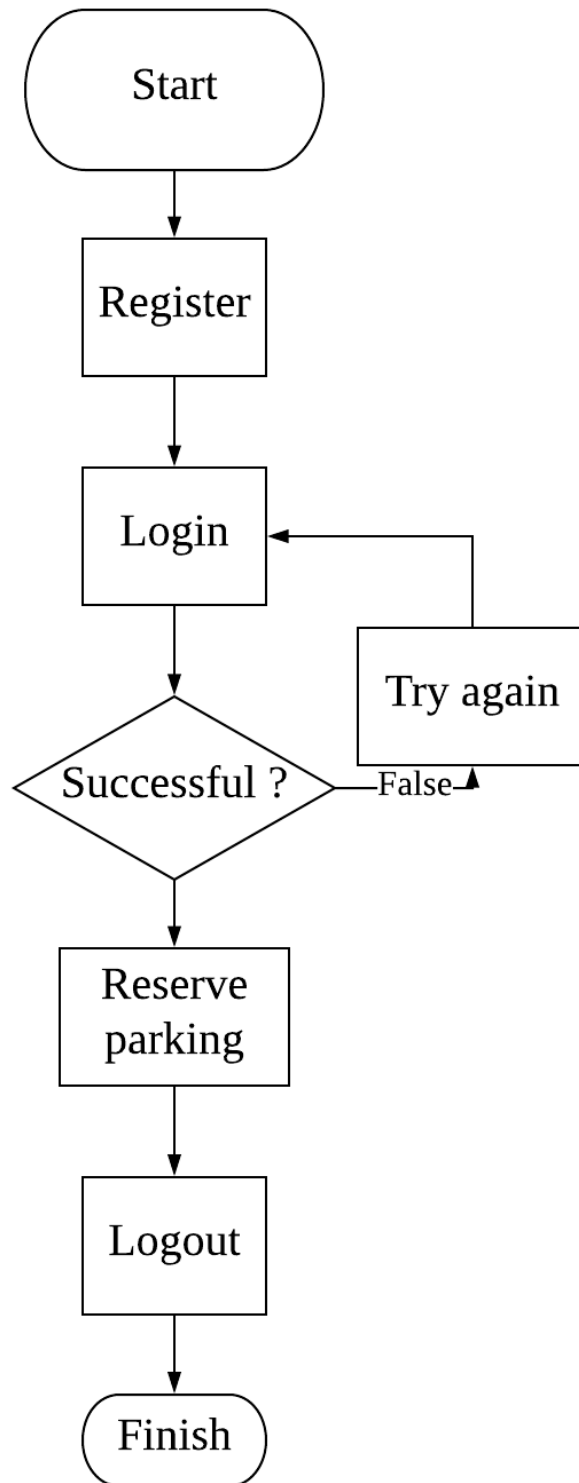


Figure 2: Flowchart on users side

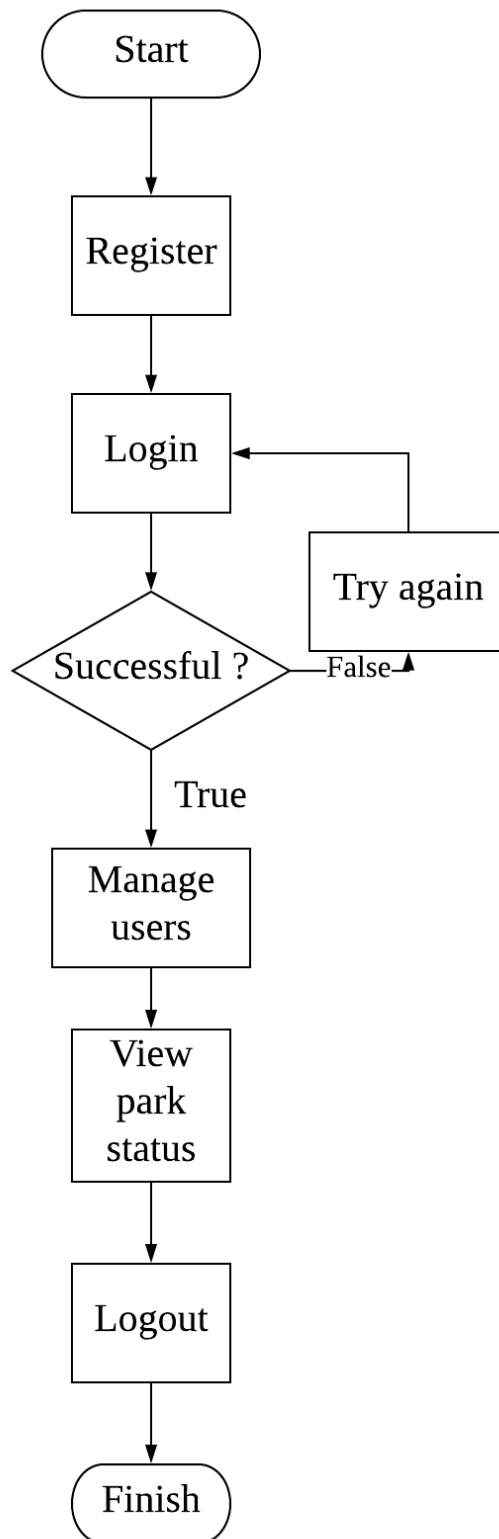


Figure 3: Flowchart on admin side

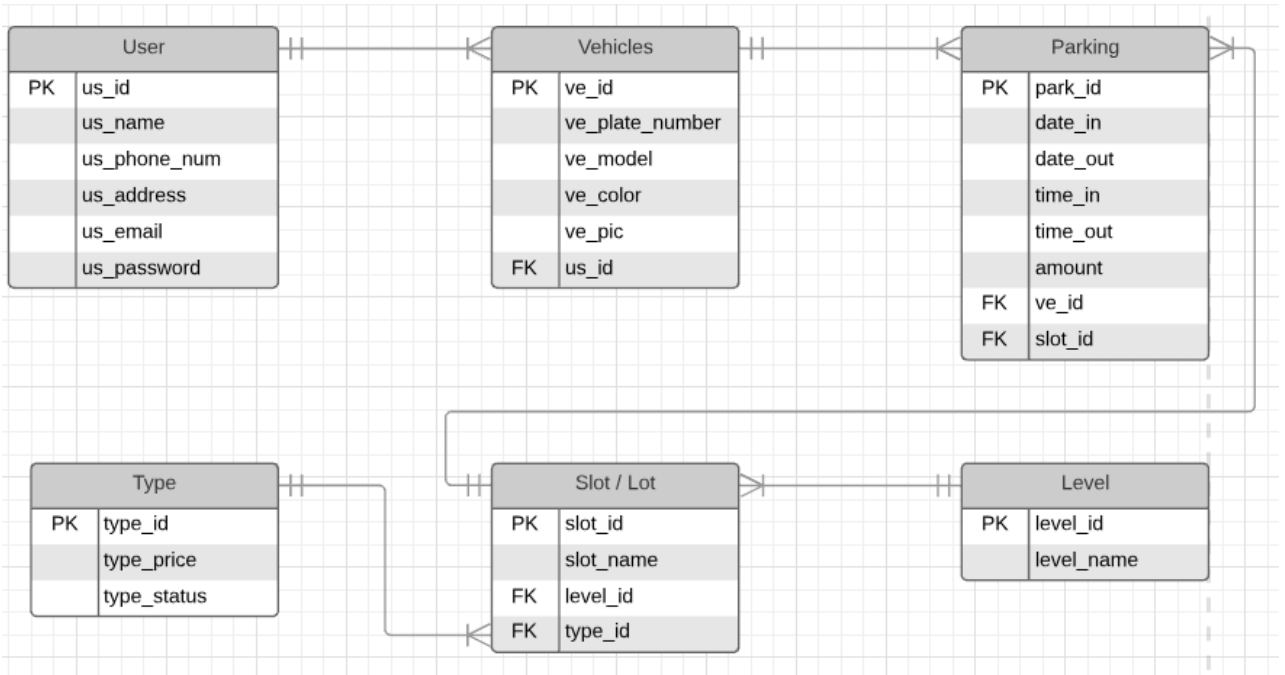


Figure 3: ERD for Online Parking Management System (OPaMS)

10.0 Storyboard, web structure and navigation

10.1 Navigation

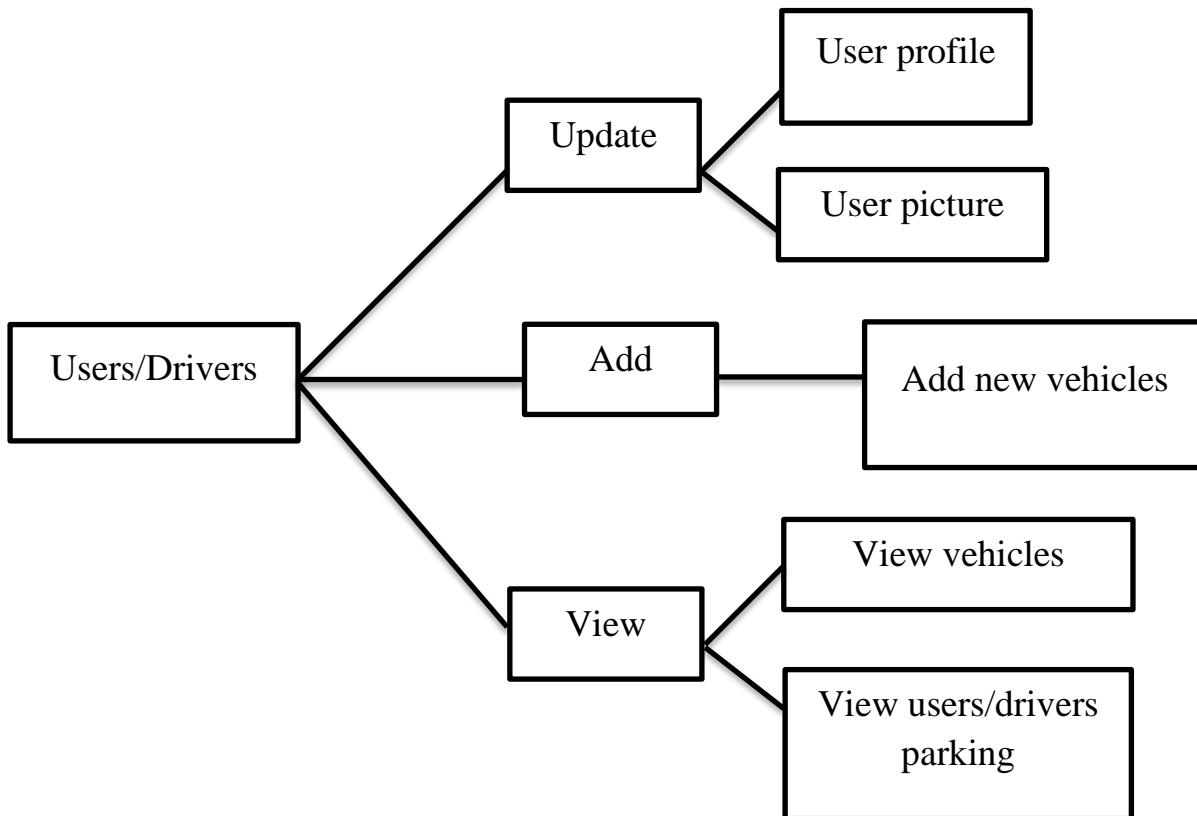


Figure 4: Navigation for users

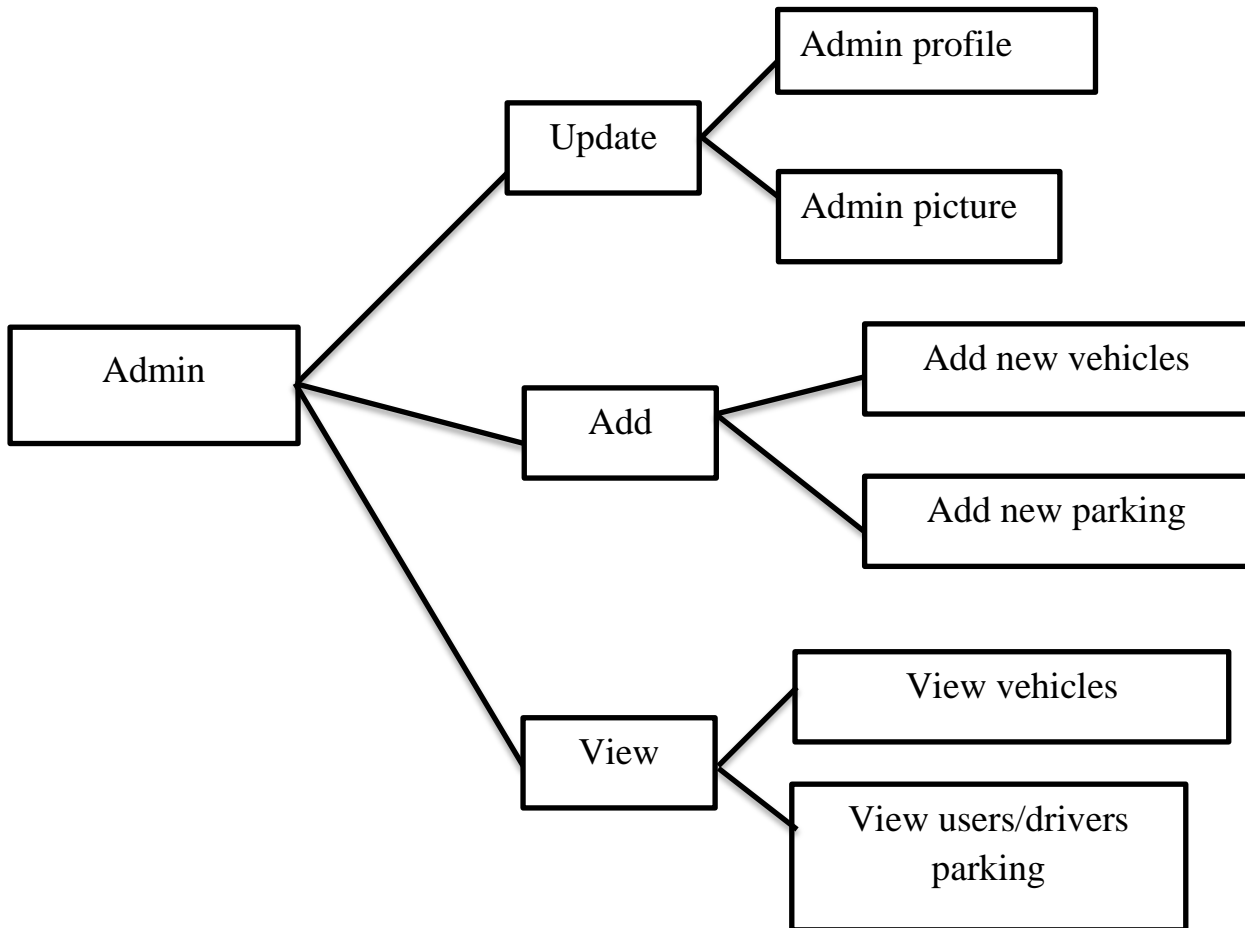


Figure 5: Navigation for admin

10.2 Storyboard

10.2.1 User side

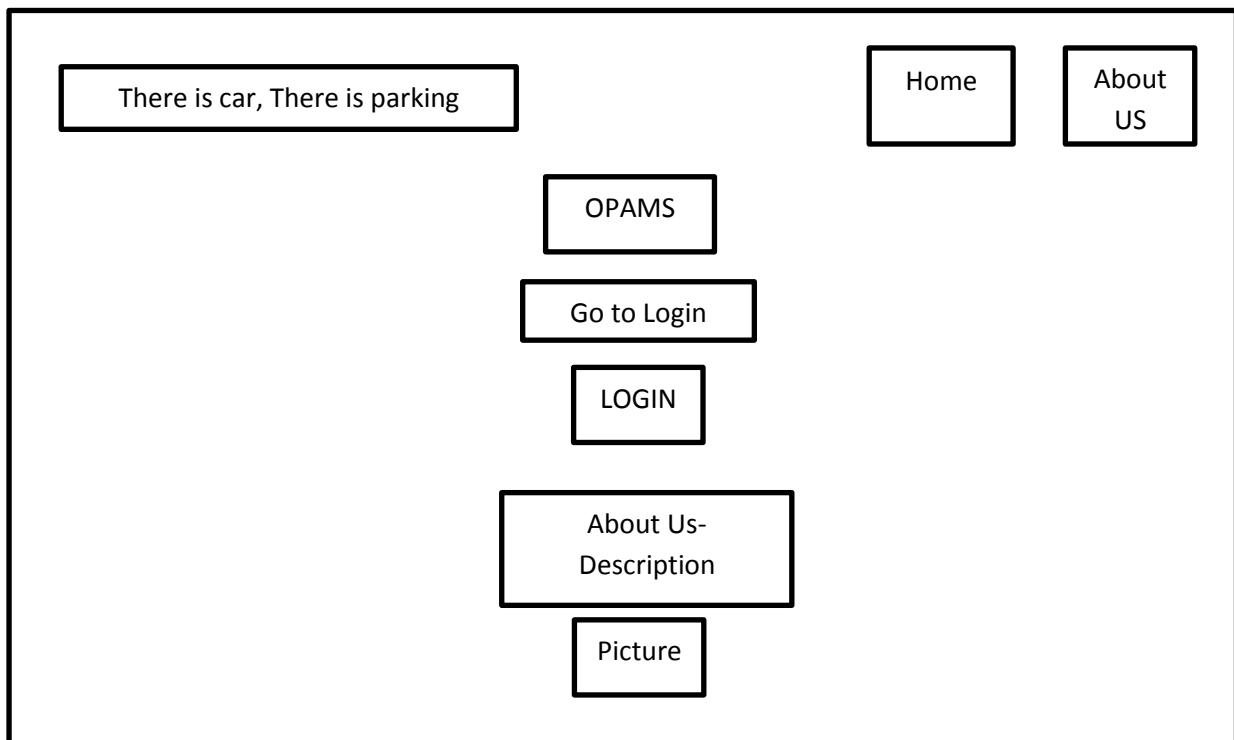


Figure 6: Homepage of User

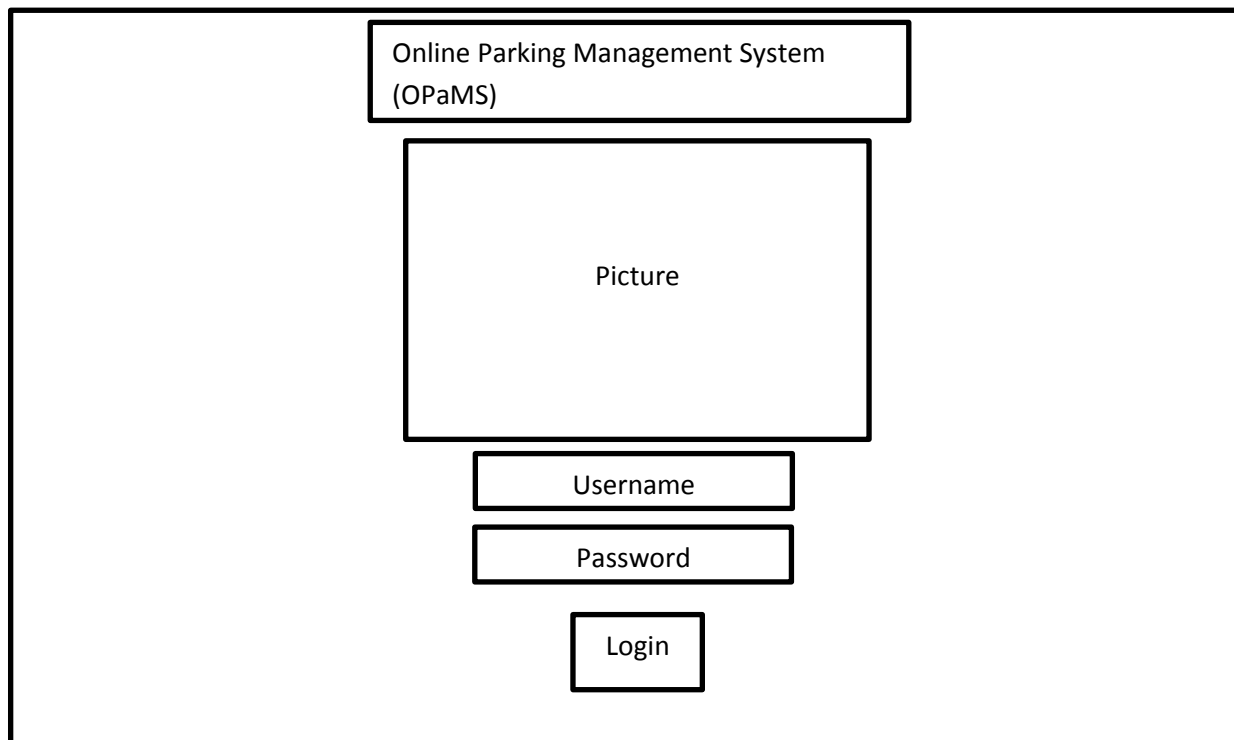


Figure 7: Login of User

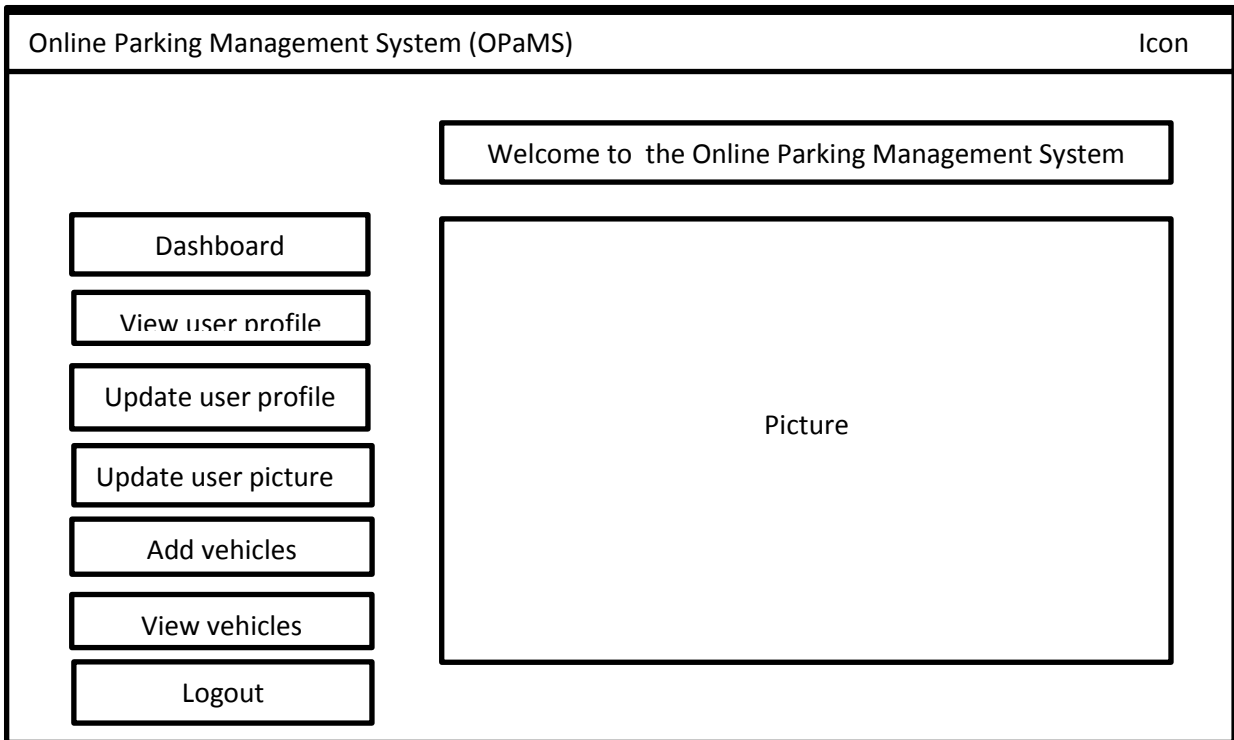


Figure 8: Dashboard of User

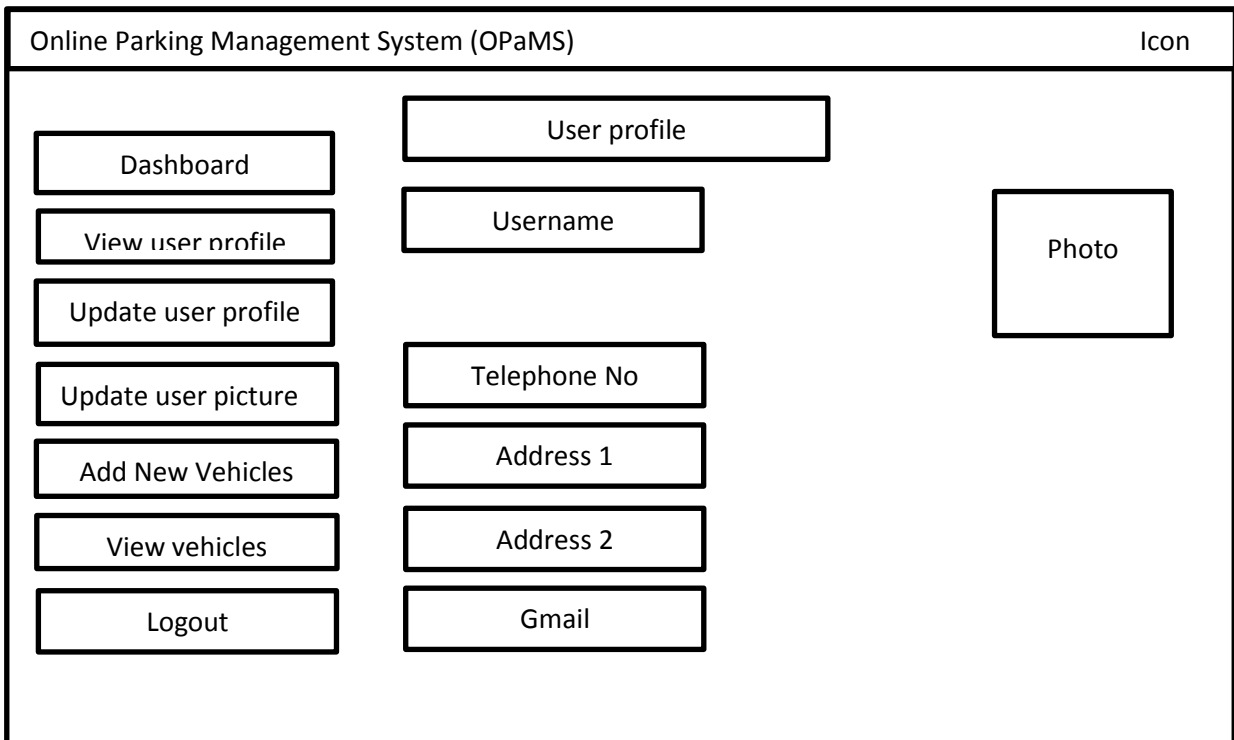


Figure 9: User profile

Online Parking Management System (OPaMS)		Icon
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Dashboard</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">View user profile</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Update user profile</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Update user picture</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Add New Vehicles</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">View vehicles</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Logout</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Update profile</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Username</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Address</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Postcode</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">City</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">State</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Email</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Phone number</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Update</div>	<div style="border: 1px solid black; padding: 20px; text-align: center; width: 100px; height: 50px; margin: 0 auto;">Photo</div>

Figure 10: Update profile

Online Parking Management System (OPaMS)		Icon
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Dashboard</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">View user profile</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Update user profile</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Update user picture</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Add New Vehicles</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">View vehicles</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Logout</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Updating profile picture</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Select user picture</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Choose file</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Update</div>	

Figure 11: Updating profile picture

Online Parking Management System (OPaMS) Icon

Dashboard

View user profile

Update user profile

Update user picture

Add New Vehicles

View vehicles

Logout

Add New Vehicles

Plate number

Model of Car

Color of Car

Picture of Car

Add

Photo

Figure 12: Add New Vehicles of User

Online Parking Management System (OPaMS) Icon

Dashboard

View user profile

Update user profile

Update user picture

Add New Vehicles

View vehicles

Logout

View Vehicles

#	Picture	Model	Plate	Color	Action
1	Photo	Honda - Civic	Ra12 3	red	Delete View

Figure 13: View Vehicles of User

10.2.2 Admin side

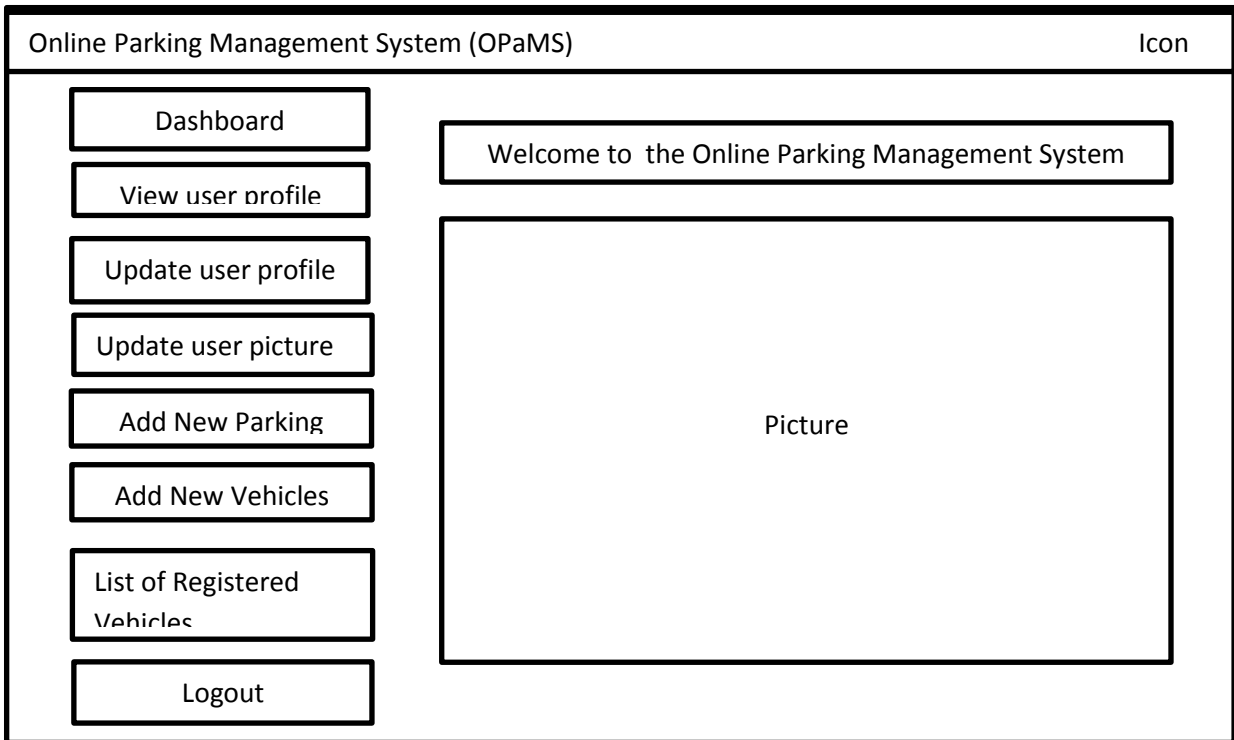


Figure 14: Dashboard of Admin

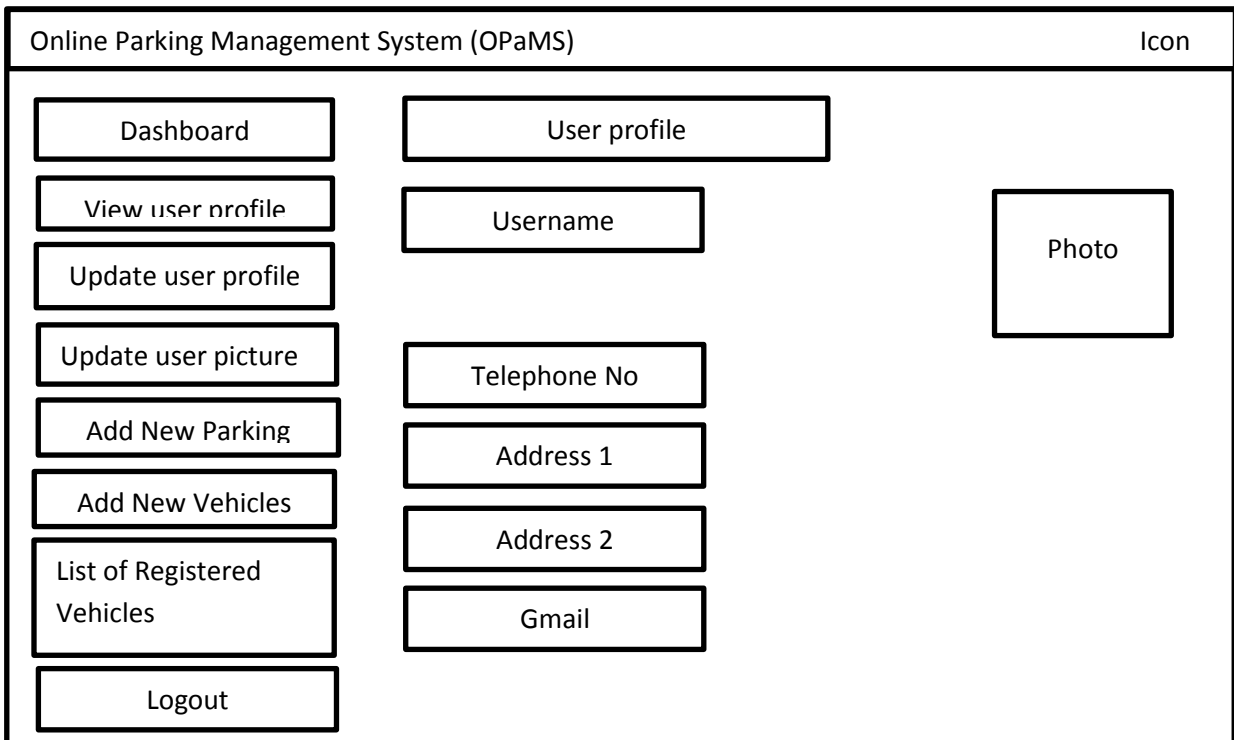


Figure 15: User profile of Admin

Online Parking Management System (OPaMS)		Icon
Dashboard	Update profile	
View user profile	Username	Photo
Update user profile	Address	
Update user picture	Postcode	
Add New Parking	City	
Add New Vehicles	State	
List of Registered Vehicles	Email	
Logout	Phone number	
	Update	

Figure 16: Update profile of Admin

Online Parking Management System (OPaMS)		Icon
Dashboard	Updating profile picture	
View user profile	Select user picture	
Update user profile	Choose file	
Update user picture	Update	
Add New Parking		
Add New Vehicles		
List of Registered Vehicles		
Logout		

Figure 17: Updating profile picture

Online Parking Management System (OPaMS)		Icon
Dashboard	Add New Parking	Photo
View user profile	Plate number	
Update user profile	Slot Name	
Update user picture	Time In	
Add New Parking	Time Out	
Add New Vehicles	Date In	
List of Registered Vehicles	Date Out	
Logout	Add	

Figure 18: Add New Parking of Admin

Online Parking Management System (OPaMS)		Icon
Dashboard	Add New Vehicles	Photo
View user profile	Plate number	
Update user profile	Model of Car	
Update user picture	Color of Car	
Add New Parking	Picture of Car	
Add New Vehicles		
List of Registered Vehicles		
Logout	Add	

Figure 19: Add New Vehicles of Admin

Online Parking Management System (OPaMS) Icon

Dashboard

View user profile

Update user profile

Update user picture

Add New Parking

Add New Vehicles

List of Registered Vehicles

Logout

List of Registered Vehicles

#	Picture	Model	Plate	Color	Action
1	Photo	Honda - Civic	Ra12 3	red	Delete

Figure 20: List of Registered Vehicles

11.0 Conclusion

To conclude, Online Parking Management System (OPaMS) is suitable for users/drivers in order to find a parking places through of this system. It eases for users/drivers in parking their car in systematically and effectively. Besides that, benefit of the system is systematic because who are users/drivers first fulfill on the system it has parking that that will conduct by admin. Nowadays, in daily life it also difficult to users/drivers in order to find parking places. There is one problems and how to make solution for each problem.

Firstly, double park is one most problem in parking. As we know, at city have many of people that park their car in double parking. It can dangerous to others people can cause congestion. It not include when people has emergency situation and cannot used their cars because others drivers parking their car in double park. By having the system, it reduced about double parking among citizen especially at city. It's because the system will monitor about the parking when users register on the system. So that, it can consume about to reduce double parking issue among citizen are under control on this system.

12.0 Reference

(Mohd Rahimi Mohd Rosman, personal communication, November 12, 2018)