

# ParkWhere

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## User Manual

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**Group 5**

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## **Purpose**

The main purpose of ParkWhere is to provide users with useful information that they can use such as carpark, petrol stations and weather services. The carpark information includes details such as the carpark name, carpark address, carpark type as well as the time frame where free parking is applicable for the users. Users can use this information to help them decide on where they want to eventually park their vehicles.

Users are able to filter search for carpark based on the type of parking and the carpark type. This will help the users in finding the most suitable carpark that caters to their needs.

ParkWhere also allow registered users to bookmark carpark. With bookmarked carpark, users can keep a list of carpark that they frequent so that they do not have to search for the carpark again. Instead, they can just go to the list of all the bookmarks that they have created.

Users can also save the history of carpark that they have parked their cars using ParkWhere. While saving the history of the carpark, users can enter their remarks such as the exact location that they have parked their cars in the description box which will be saved in the database. Users can then view the list of saved histories along with the remarks or description that they have entered. This will help them locate where they have parked their car when they view the list.

ParkWhere also provides real-time weather services which allow the users to keep track of the weather at their current location. With this weather service, users can plan their journeys in advance before they head out.

Besides carpark information, users are also able to view the information of petrol stations using ParkWhere. The petrol station information is added to let the users know where the nearest petrol stations are located from their current location in the event that they are running low on gas. The map also shows the route from their current location to the petrol station that they have chosen from the map.

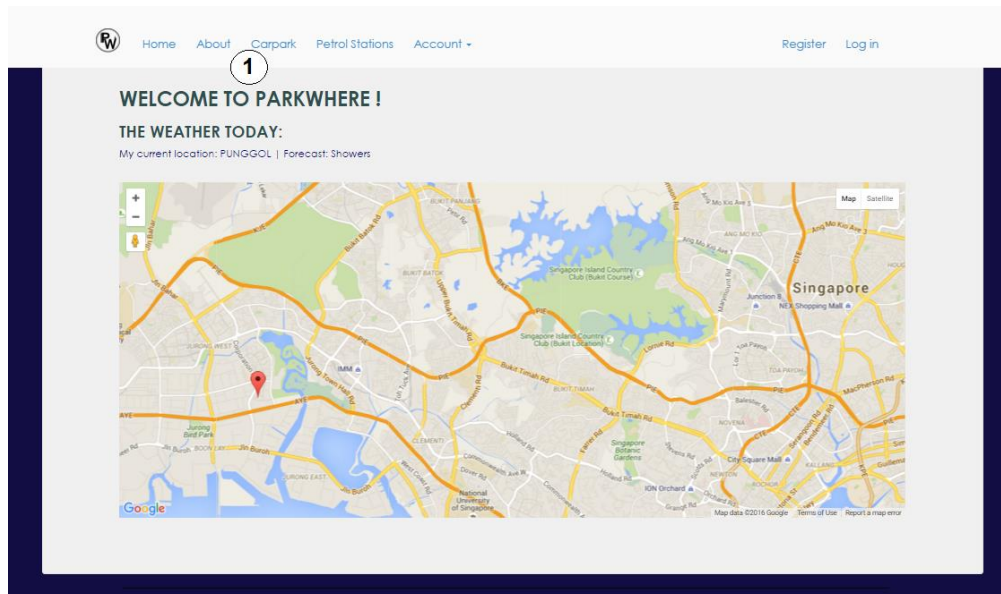
Users can also view the top five most bookmarked carpark in the form of a chart. The purpose of this chart is to let users know which carpark are the most popular in ParkWhere.

With these features, ParkWhere aims to help users save time by providing them with useful information that they can utilize for their daily commutation.

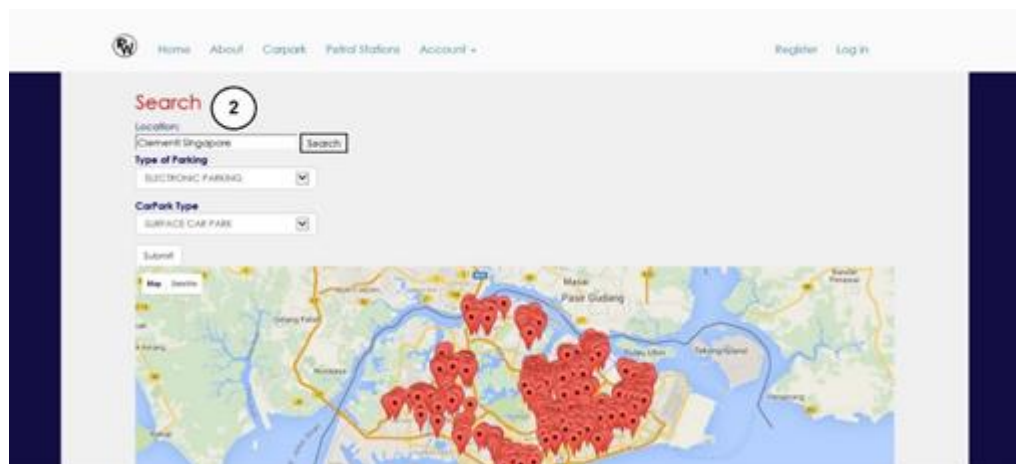
## Part 1.1 – Searching of Carpark

This part will show the steps to search and view information of carpark locations.

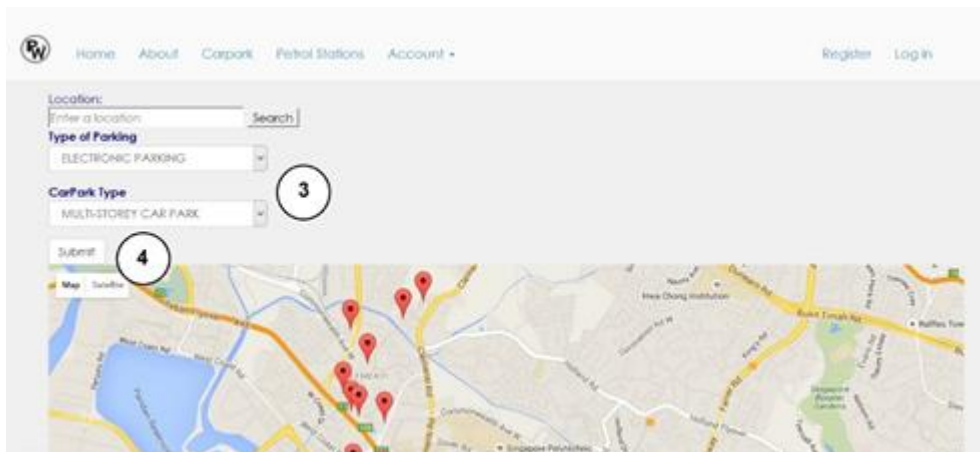
Step 1: Select the Carpark Link.



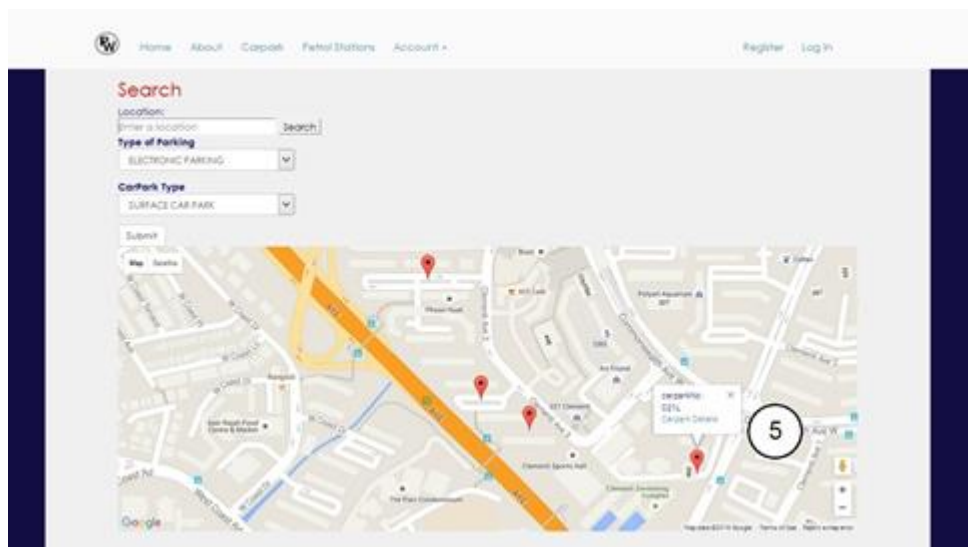
Step 2: Type in the Location in the search box follow by select the SEARCH button.



Step 3: Select the option for Type of Parking and CarPark Type.  
Step 4: Select Submit button.

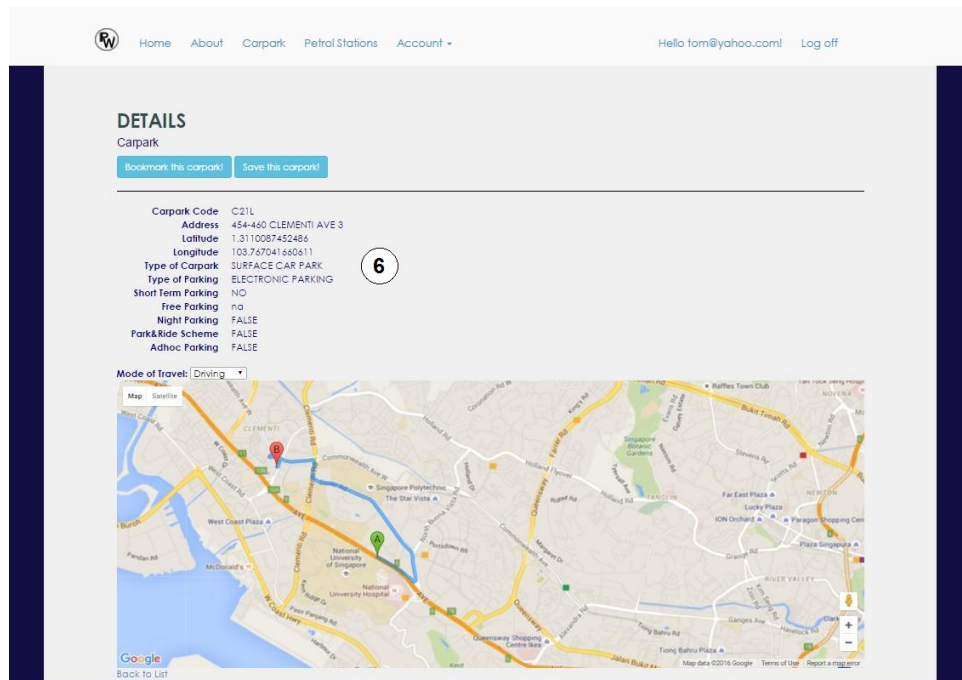


Step 5: Choose any of the Carpark location from the display red icons.  
Select the Carpark details link to view the details of the chosen Car park.



Step 6: The Details will display the information of the selected Carpark location.

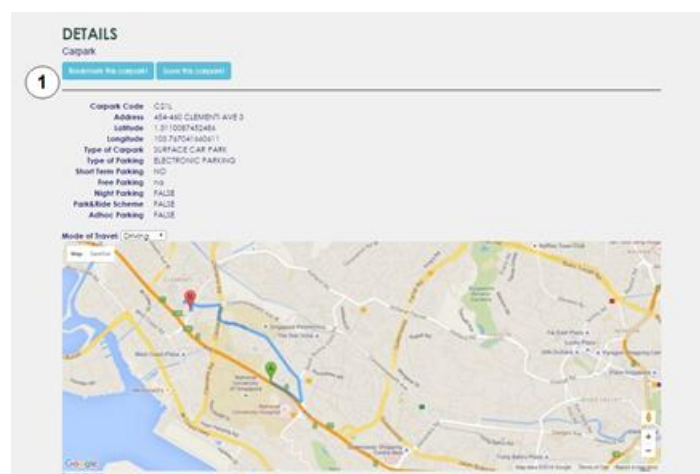
The Map will display the distance between current location and selected Carpark.



## **Part 1.2 - Bookmark of Carpark Location**

This part will show the steps of bookmark a Carpark location.

Step 1: Click on the Bookmark button.



Step 2: Click on the Create button to save the Car park location to the Bookmark.



The screenshot shows a 'CREATE Bookmark' form. It contains four input fields: 'carparkId' with the value '132', 'address' with the value '454-460 CLEMENTI AVE 3', 'Date' with the value '17/03/2016', and 'Username' with the value 'tom@yahoo.com'. Below these fields is a 'Create' button, which is circled with a '2'. A 'Back to List' link is located at the bottom left of the form.

**CREATE**  
Bookmark

carparkId 132

address 454-460 CLEMENTI AVE 3

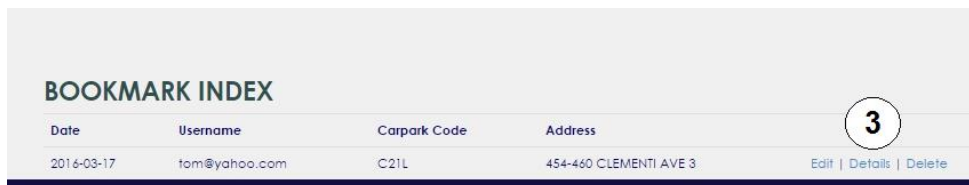
Date 17/03/2016

Username tom@yahoo.com

Create 2

Back to List

Step 3: Select Edit to make changes of the Carpark details.  
Select Details to view the information of the Carpark.  
Select Delete to remove the selected Carpark.



The screenshot shows a table titled 'BOOKMARK INDEX'. It has four columns: 'Date', 'Username', 'Carpark Code', and 'Address'. The first row contains the values '2016-03-17', 'tom@yahoo.com', 'C21L', and '454-460 CLEMENTI AVE 3'. To the right of the table, there is a link 'Edit | Details | Delete', which is circled with a '3'.

Date	Username	Carpark Code	Address
2016-03-17	tom@yahoo.com	C21L	454-460 CLEMENTI AVE 3

Edit | Details | Delete 3

## Part 1.3 - Saving Carpark location to Saved History

This part will show the steps of saving a Carpark location to the Saved History.

Step 1: Click on the Save the Carpark link.

**DETAILS**  
Carpark

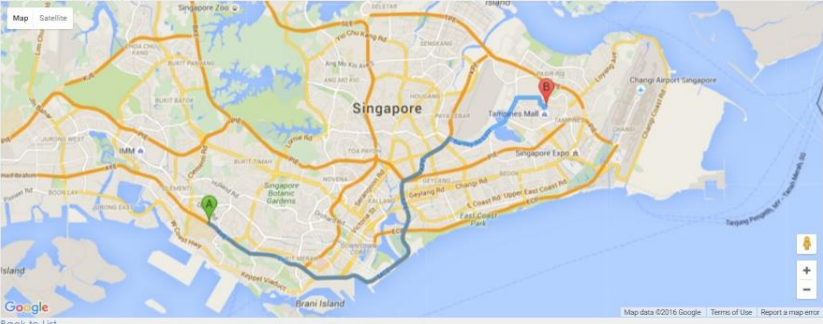
[Bookmark this carpark!](#) [Save this carpark!](#) **1**

---

Carpark Code: T55  
Address: BLK 501/508 TAMPINES CENTRAL 1  
Latitude: 1.35628634125676  
Longitude: 103.945251948343  
Type of Carpark: SURFACE CAR PARK  
Type of Parking: ELECTRONIC PARKING  
Short Term Parking: NO  
Free Parking: na  
Night Parking: FALSE  
Park&Ride Scheme: FALSE  
Adhoc Parking: FALSE

Mode of travel: Driving

Map Satellite



Google  
Back to list

Map data ©2016 Google | Terms of Use | Report a map error

Step 2: Enter text in the Description Box. (Optional)

Step 3: Click on Create button to save the Car park location to the Saved History.

**CREATE**  
ParkingHistory

---

carparkid:

address:

username:

date:

Description:  **2**

**3**

[Back to list](#)

Step 4: Select Edit to make changes to the Description field.

Select Details to view the information of the Carpark.

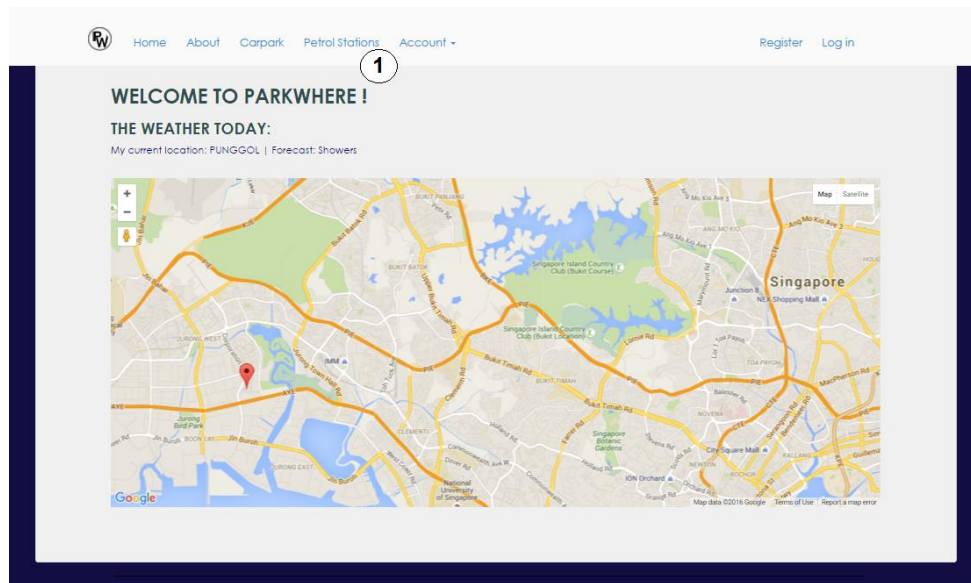
PARKING HISTORY INDEX				
Username	Date	Description	Carpark Code	<b>4</b>
tom@yahoo.com	2016-04-01	New Alternate Carpark	T12	<a href="#">Edit</a>   <a href="#">Details</a>
tom@yahoo.com	2016-03-30	This will be the Alternate Carpark	T55	<a href="#">Edit</a>   <a href="#">Details</a>



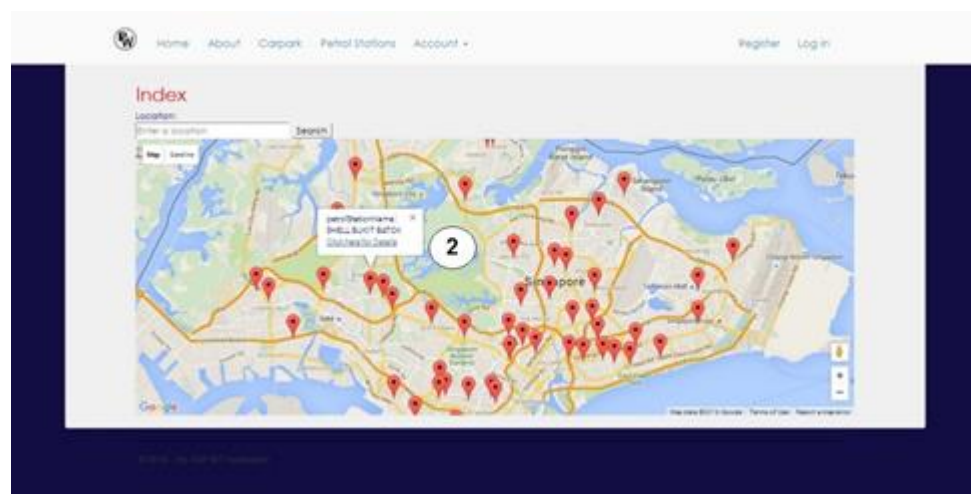
## **Part 1.4 – Petrol Station**

This step will indicate the finding of Petrol Station location and the travel distance between the current location and the chosen Petrol Station.

Step 1: Select the Petrol Station Link.



Step 2: Choose any of the Petrol Station location from the display red icons. Click the details link to view the travelling route between the current location and the selected Petrol Station.



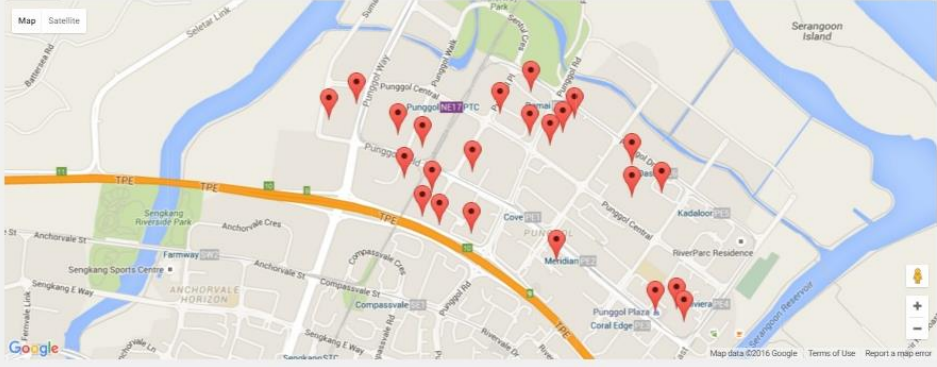
## **Part 1.5 - Top Five Bookmarked Carpark**

This part will display the Top Five popular Carpark that is being bookmark by Users.

The Top Five result will be display at the bottom for every search of Carpark location.

Step 1: Select the Details link to view the Information of the respective Carpark.  
(Optional)

CarPark Type  
SURFACE CAR PARK  
Submit  
Map Satellite



**TOP 5 MOST FREQUENTLY BOOKMARK CARPARK**

Carpark Code	Address	
BJ1	BLK 130-140 CASHEW ROAD	<a href="#">Details</a>
CK72	BLK 489 CHO A CHU KANG AVE 5	<a href="#">Details</a>
C38	BLK 715-717 CLEMENTI WEST STREET 2	<a href="#">Details</a>
TG3	BLK 30/31/46/48 TEBAN GARDENS	<a href="#">Details</a>
TJ27	BLK 151/154 YUNG HO ROAD	<a href="#">Details</a>

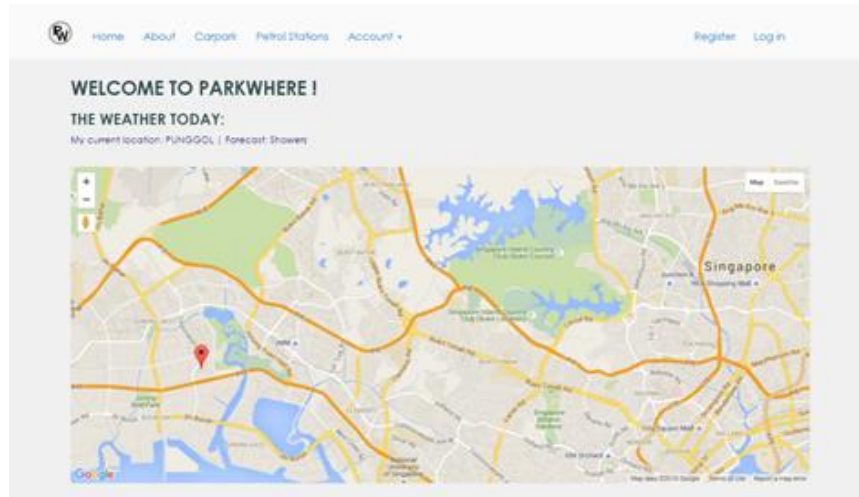
1

## **Part 1.6 - Weather Service**

This part will display the weather service in the Home page.

The Weather Service would display the current weather of current location.

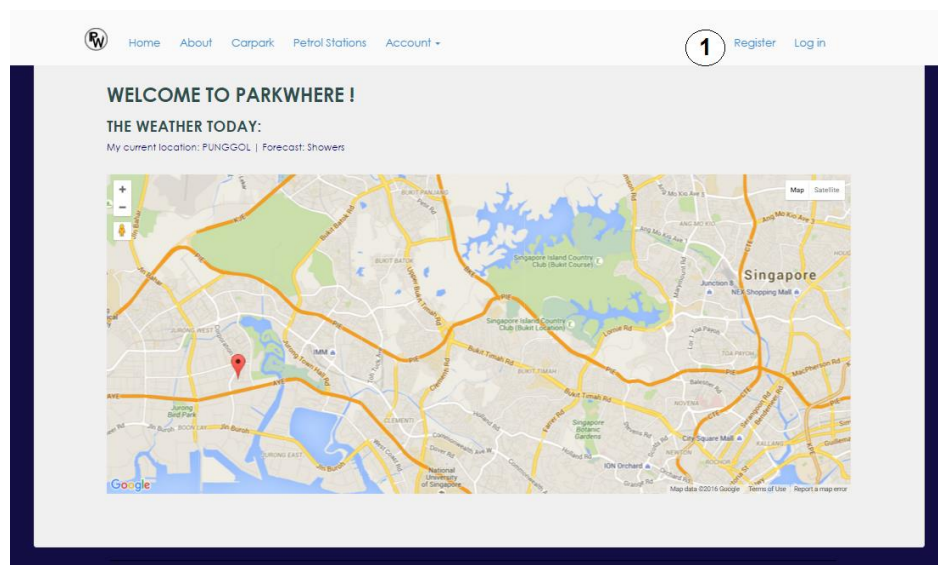
Note: Permission of current location would be prompt.



## **Part 1.7 – Register an account.**


This part will show the steps of registering an account.

Step 1: Select the Register Link.



Step 2: Enter the Email and Password in the given respective field.  
Password must contain more than 6 letters

### Step 3: Click on the Register button

 [Home](#) [About](#) [Carpark](#) [Petrol Stations](#) [Account](#) [Register](#) [Log In](#)

## Register.

Create a new account.

---

Email

Password

Confirm password

Register

2

3


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© 2014 - My ASP.NET Application

## Part 1.8 – Login

This part will show that the steps to logged into the account.

Step 1: Select the Log in link.


[Home](#)
[About](#)
[Carpark](#)
[Petrol Stations](#)
[Account](#)

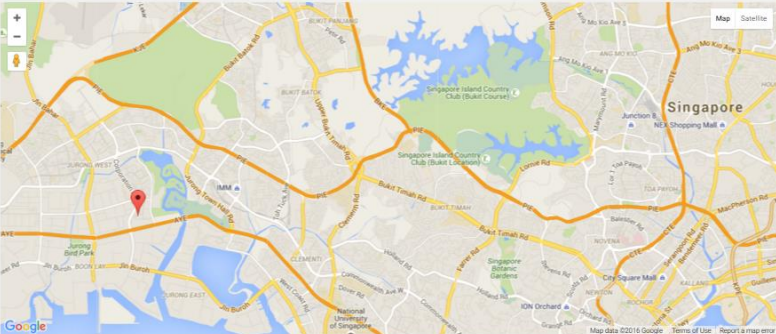
[Register](#)
[Log in](#)

2

## WELCOME TO PARKWHERE !

### THE WEATHER TODAY:

My current location: FUNGGOL | Forecast: Showers



Step 2: Enter the Email and Password in the given respective box.

Step 3: Click on the Log in button.

The screenshot shows a web application's login page. At the top, there is a navigation bar with a logo on the left and links for Home, About, Carpark, Petrol Stations, and Account on the right. Further right in the navigation bar are links for Register and Log in. The main content area has a heading "Log in." in red. Below this, there are two sections: "Use a local account to log in." and "Use another service to log in." The local account section contains an "Email" input field with the text "tam@yahoo.com", a "Password" input field, a "Remember me?" checkbox, and a "Log in" button. A circled number "2" is placed next to the password field, and a circled number "3" is placed next to the "Log in" button. The "Use another service to log in." section contains a message: "There are no external authentication services configured. See this article for details on setting up this ASP.NET application to support logging in via external services." At the bottom left of the main content area, there is a link "Register as a new user". The footer of the page contains the text "© 2015 - My ASP.NET Application".