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# User Manual

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PARKSPOT



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# 1 Overview

Quite a number of motorists face the challenge of securing a parking spot once they arrive at a parking lot. This results in the motorists wasting time, energy and fuel trying to locate a parking space which may make one late for a commitment.

ParkSpot is an application developed for motorists to assist them in searching for available parking spots when they arrive or enter into the vicinity of a parking lot, saving the motorist time, energy, fuel and ensuring they get to their destination in time. In the **Getting Started Section** is where the detailed and visual description of how ParkSpot Works.

## 2 System Configuration

### 2.1 Equipment

- **Mobile Devices (Android and IOS)**

This Application is available and accessible on both mobile platforms.

- **Tablets and Ipad Devices**

This application is available and accessible through the web by launching it at <https://glowing-cargo-278417.web.app>

- **Desktop Computers**

ParkSpot is also a progressive web application meaning it is available and accessible from the internet through any web browser by launching <https://glowing-cargo-278417.web.app>

### 2.2 Communication

- ParkSpot communicates with Google Maps API for the displaying of map and location of a user.
- Park Spot communicates with Google Places API for user location purposes, discovery of nearby events as well as location of the parked vehicle.
- ParkSpot communicates with Google Directions API for navigation purposes, navigating to a parking spot once one has been found.

## 3 Installation

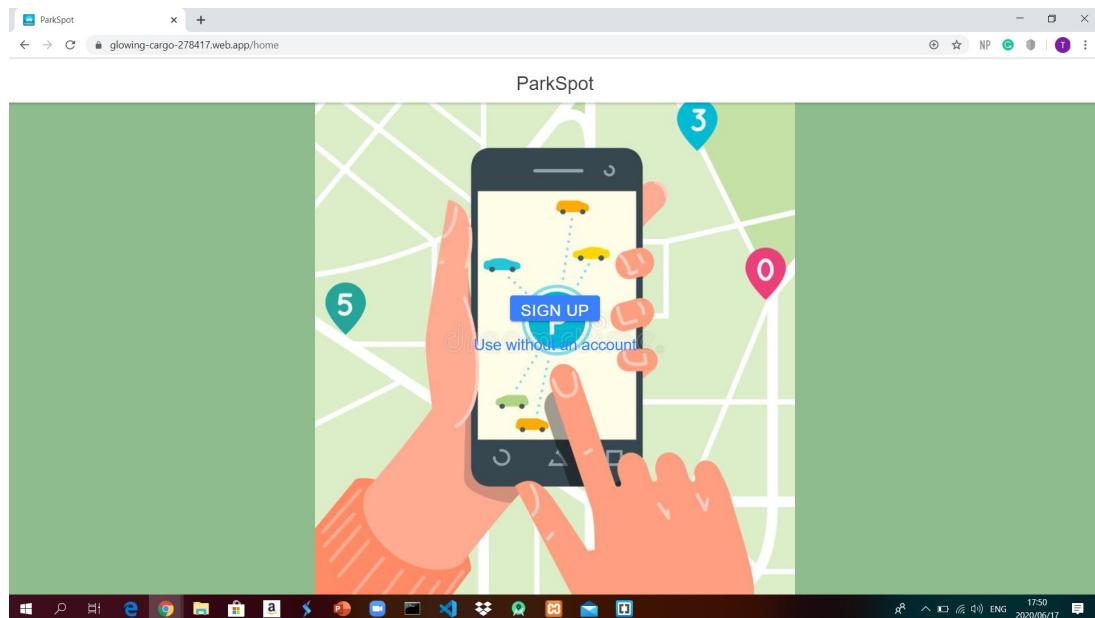
- ParkSpot Web Application

To access parkSpot web application, simply open any web browser of your choice, ensure you have an internet connection then launch <https://glowing-cargo-278417.web.app>. Once the web application is open, user can begin using the app.

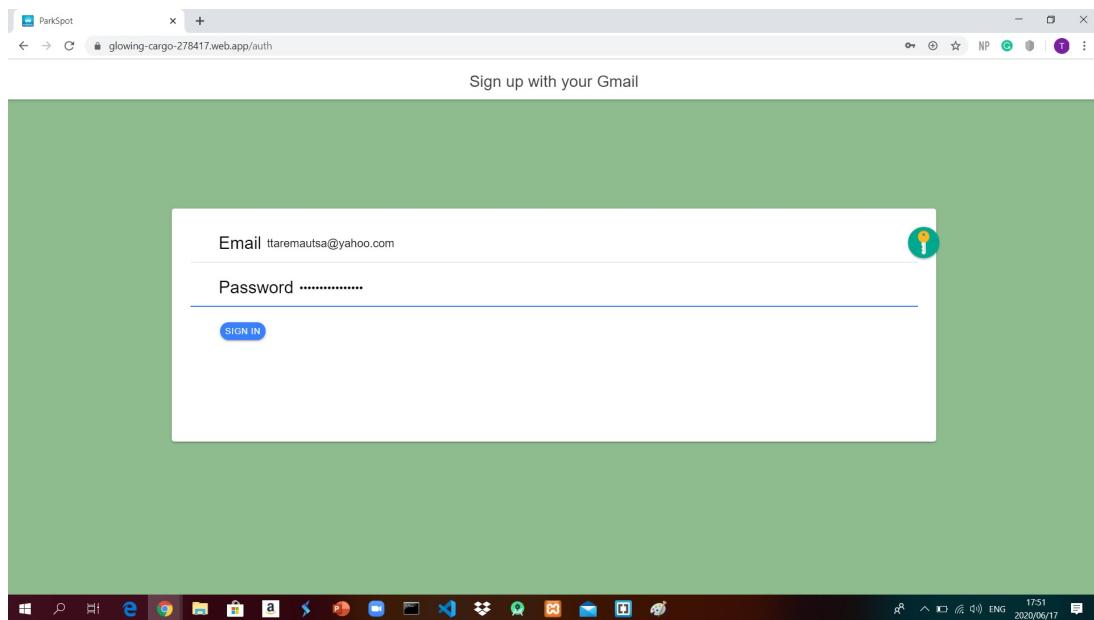
## 4 Getting Started and Using the System

### 4.1 Getting Started with the Web Application

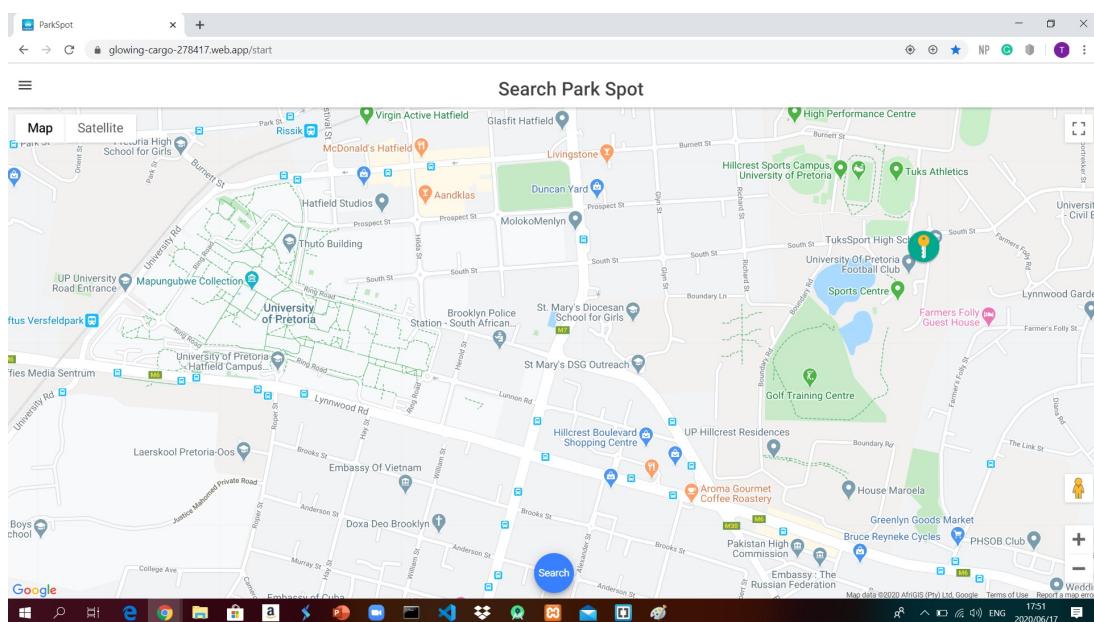
Launch web application by typing <https://glowing-cargo-278417.web.app> in any web browser of choice



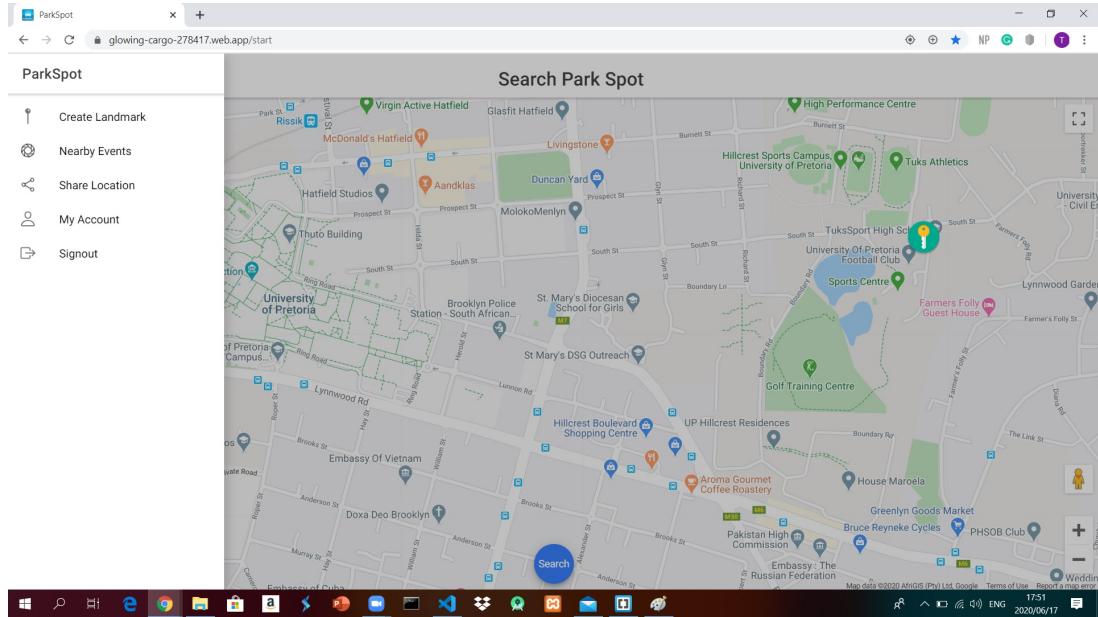
**Sign up with your Gmail** by entering your gmail credentials that will authenticate you for ParkSpot since ParkSpot uses google services.



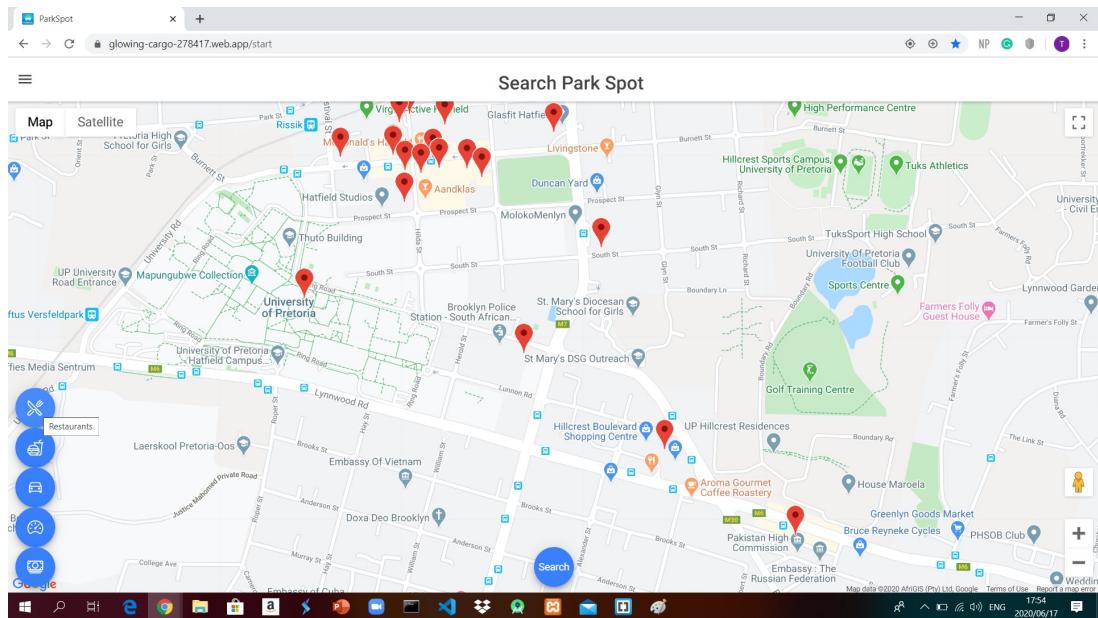
You land on this screen once **successfully sign in**



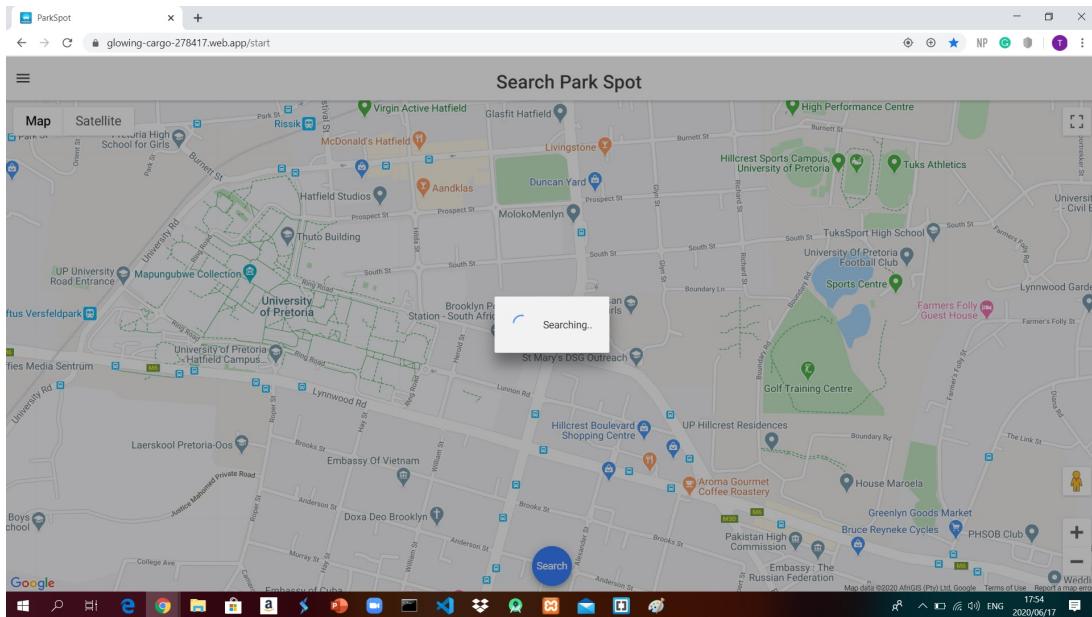
This is the main menu with various **menu options** available to you



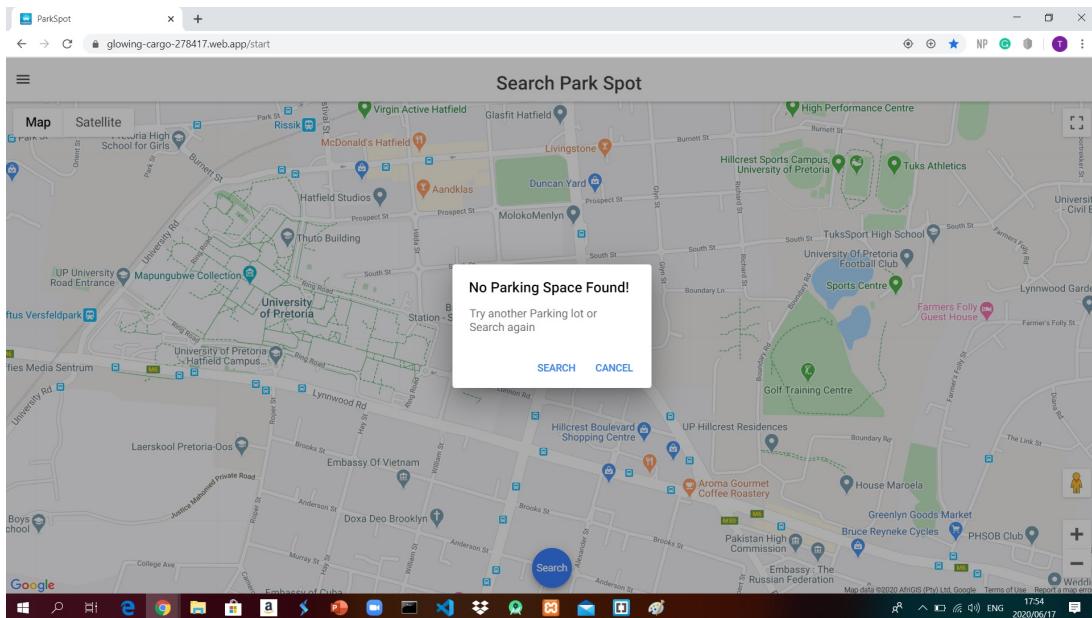
Having selected **Nearby Events**. Buttons appear on the bottom left of screen with more functions. Hover over the first button with a crossed fork and knife(Restaurants). It displays the nearby restaurants within your proximity.



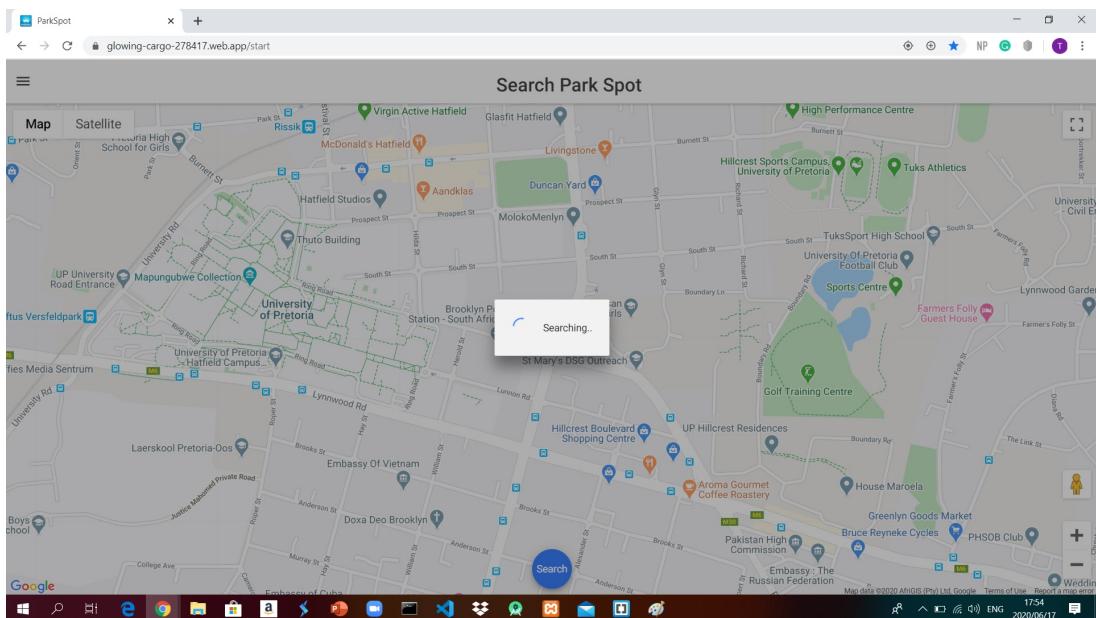
Click the **Search** button at the center of the screen, at the bottom, which begins the search process to find a parking space



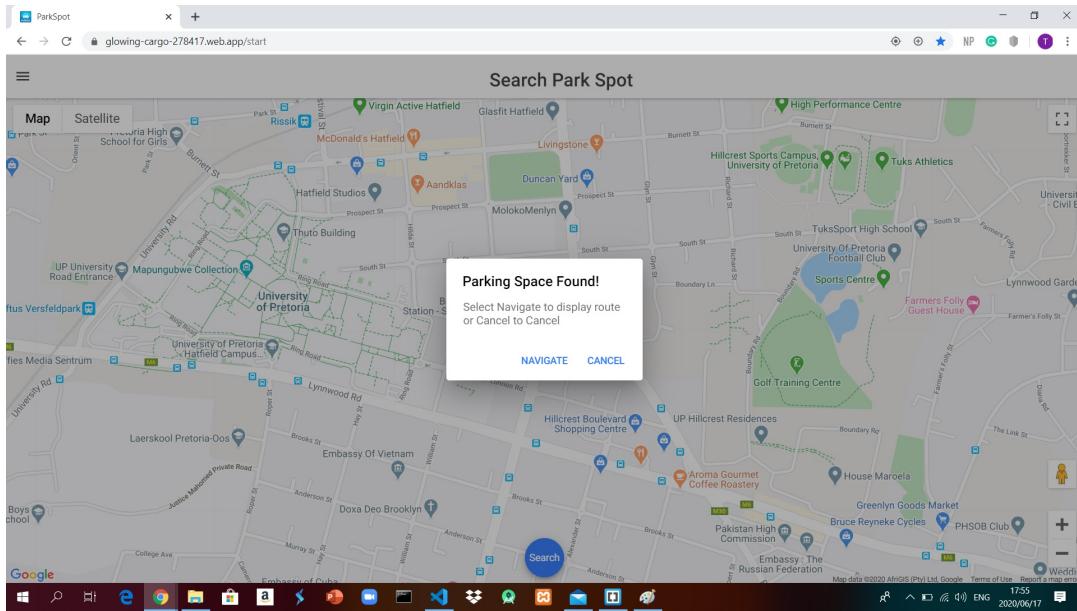
After clicking the **Search** button, you can either get the response "**No Parking Space Found!**" which means you can choose to search again by selecting **SEARCH** or you can choose to **CANCEL** which cancels the search process for an available parking space.



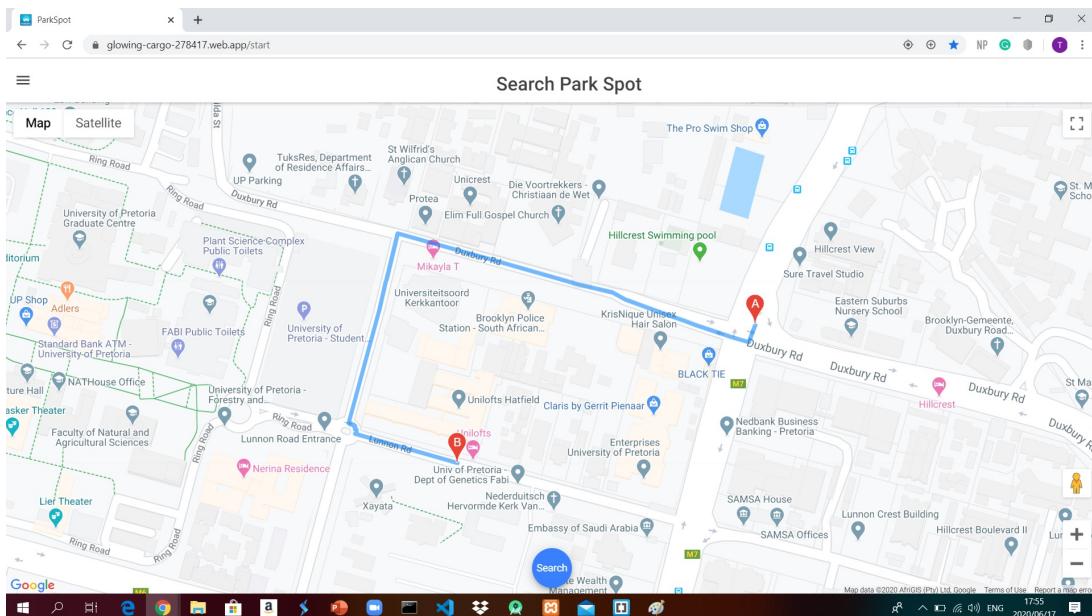
After selecting the **SEARCH** option, the system searches once more



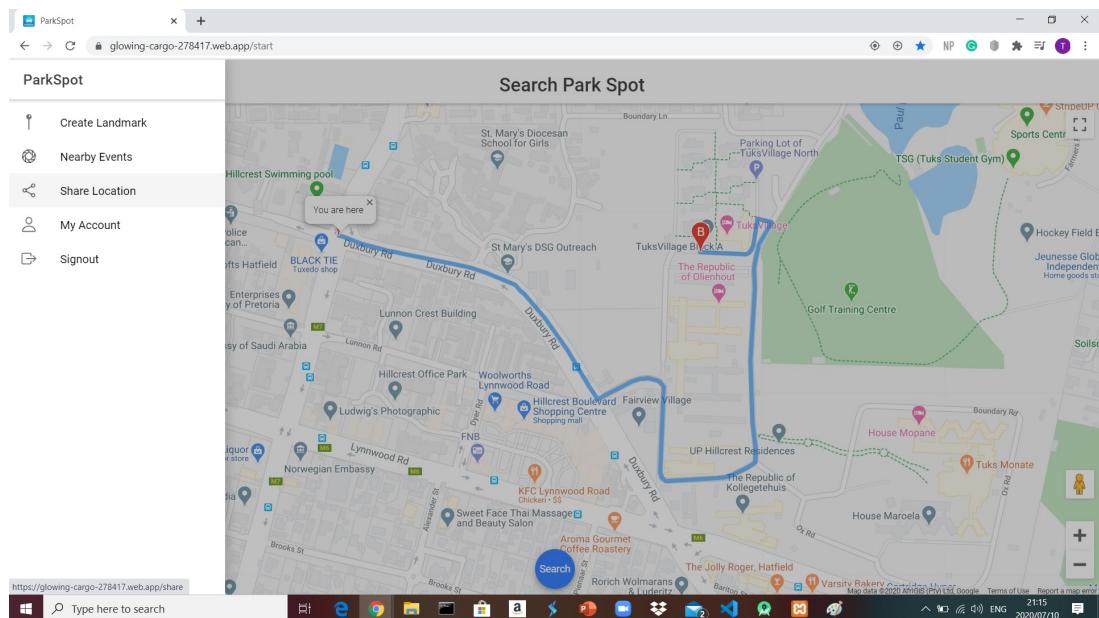
The other response you can get after clicking **Search**, is **Parking Space Found!** Which you can choose to either navigate to the parking space by selecting **NAVIGATE** or you can choose to cancel by selecting **CANCEL**, which cancels the search you would have made.



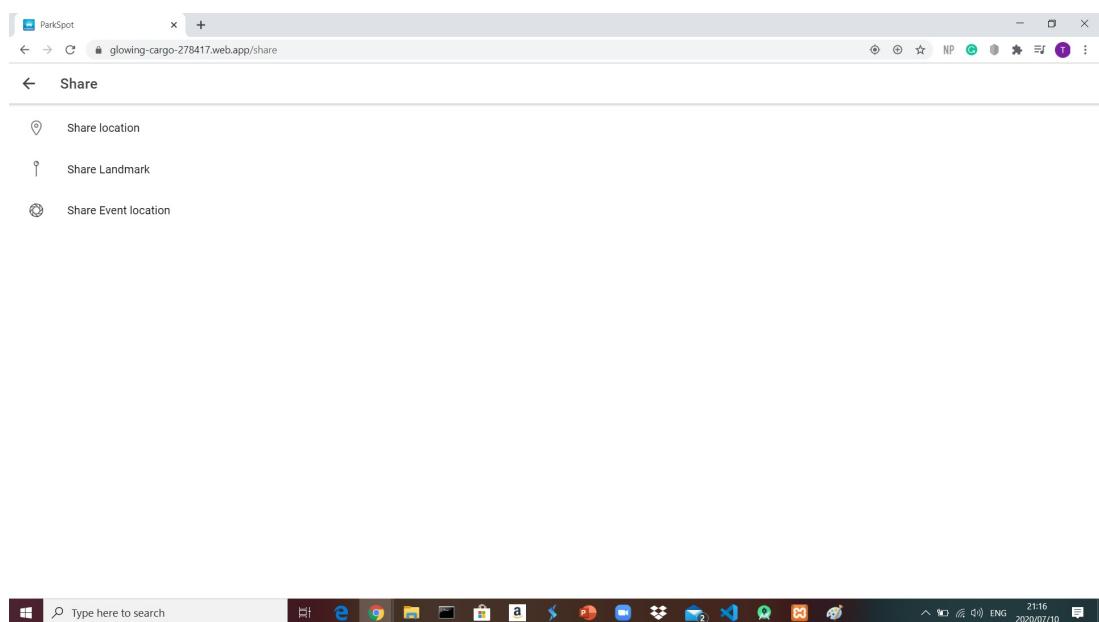
After selecting the **NAVIGATE** option, the system displays a route from where you will be **A** to the parking space **B**



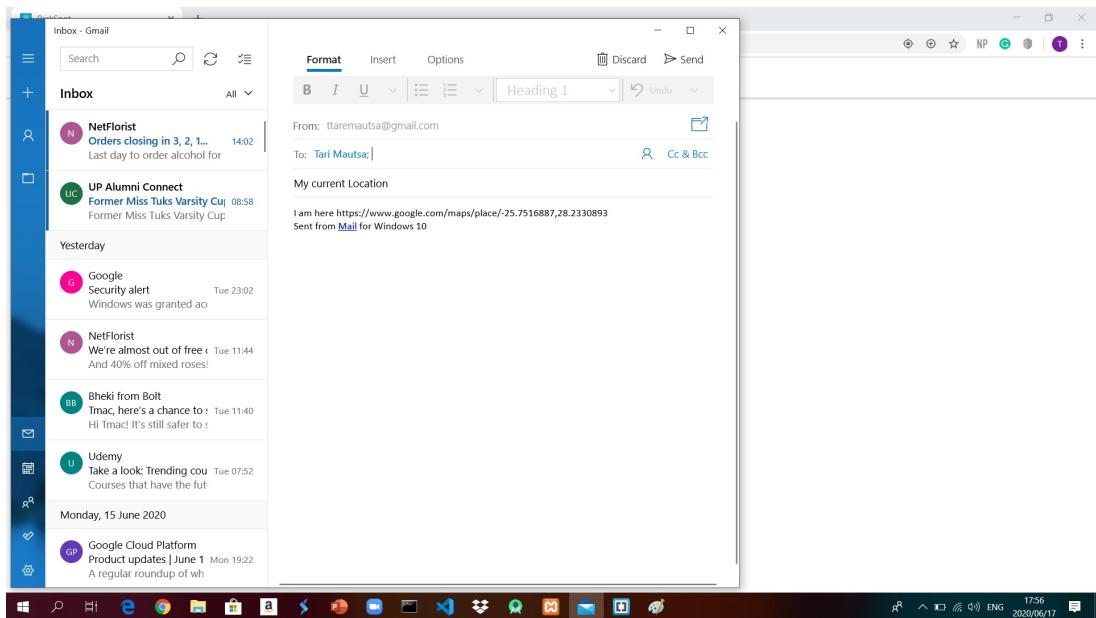
Selecting the **Share Location** option from the main menu



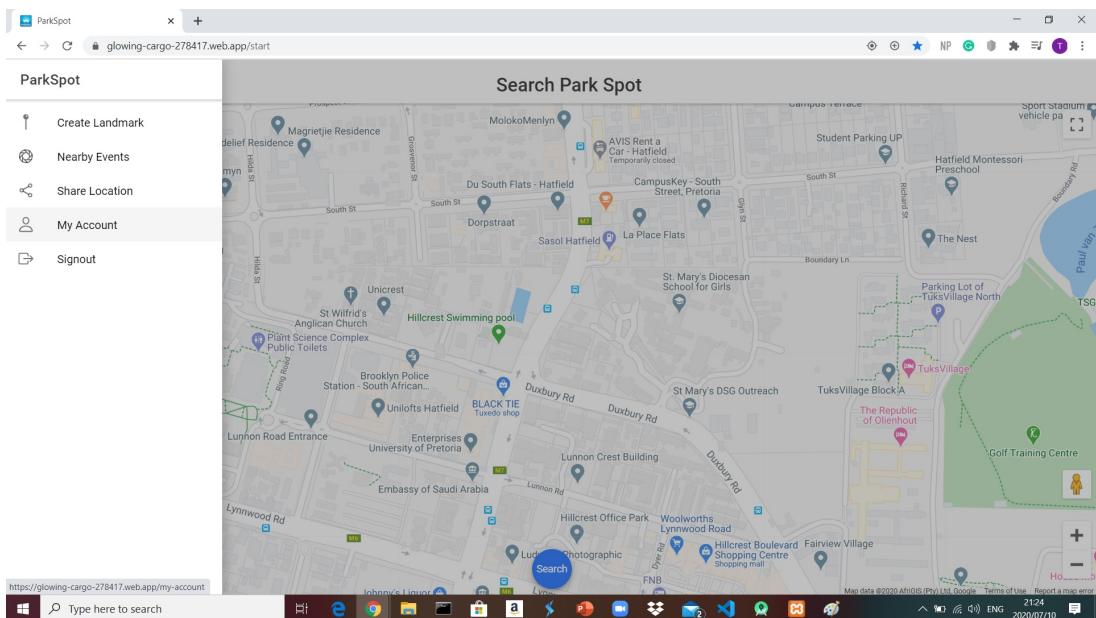
There are different **Share** functions available to you.



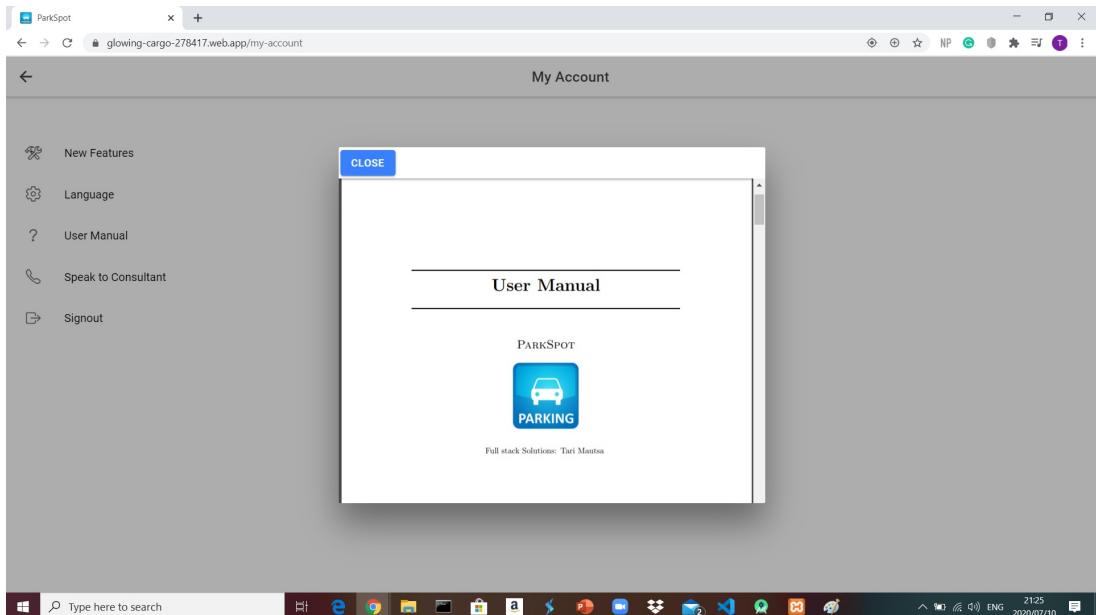
Sharing any location is done via email. The system opens an email app configured on your device and fills the email body with location coordinates embedded in an **URL**. All you as the user has to do, is enter recipients email address.



Selecting the **My Account** option from the main menu.



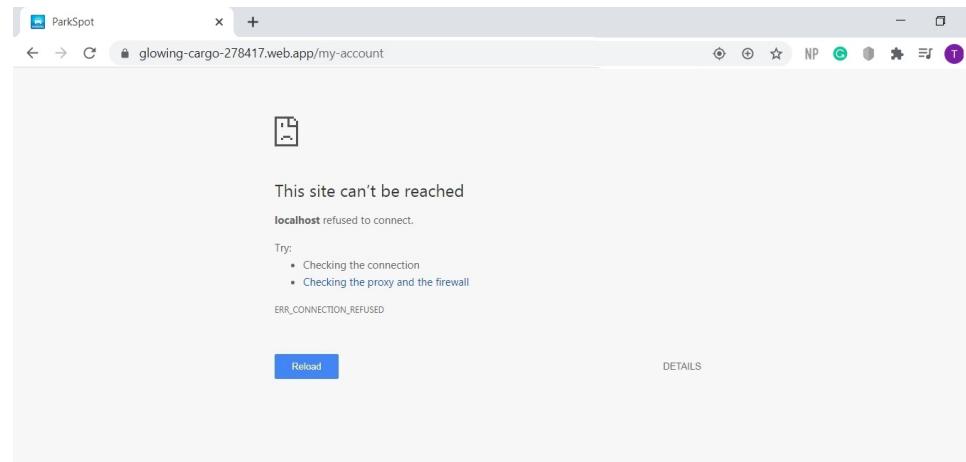
Within **My Account**, there are more functions are displayed on the left side of the screen. Currently selected is the **User Manual** function which gives the user easy access to the User Manual within the application



## 5 Troubleshooting

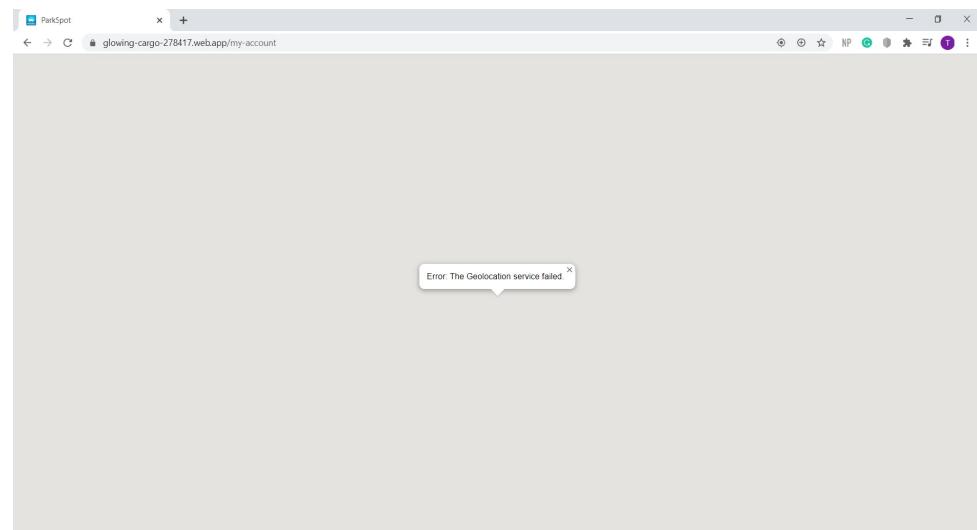
### 5.1 Progressive Web Application

- Internet Connection Error: For Web Application



This means that you do not have an active internet connection. To fix this, check your internet connection or contact your Internet Service Provider..

- System Error: Geolocation Service failed



This means that you did not allow the application to know your location through the browser. To fix this error, reload the application,

when the browser asks to know your location, you must click **allow**. If the error persists, check the location settings in the computer/device's settings. If they are turned off, turn them on then the application will reload. You will be asked once again, if the application can know your location, click 'allow' then the application will function.