User Guide

Sir Veyer Jr.™

v2.0

Developed by: **#Team02**
{ teamName : undefined }

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1. Introduction

Sir Veyer Jr.™ v2.0 is designed to be a simple yet sophisticated location-based, **surveying application** powered by **HTML5 Geolocation** and **localStorage**.

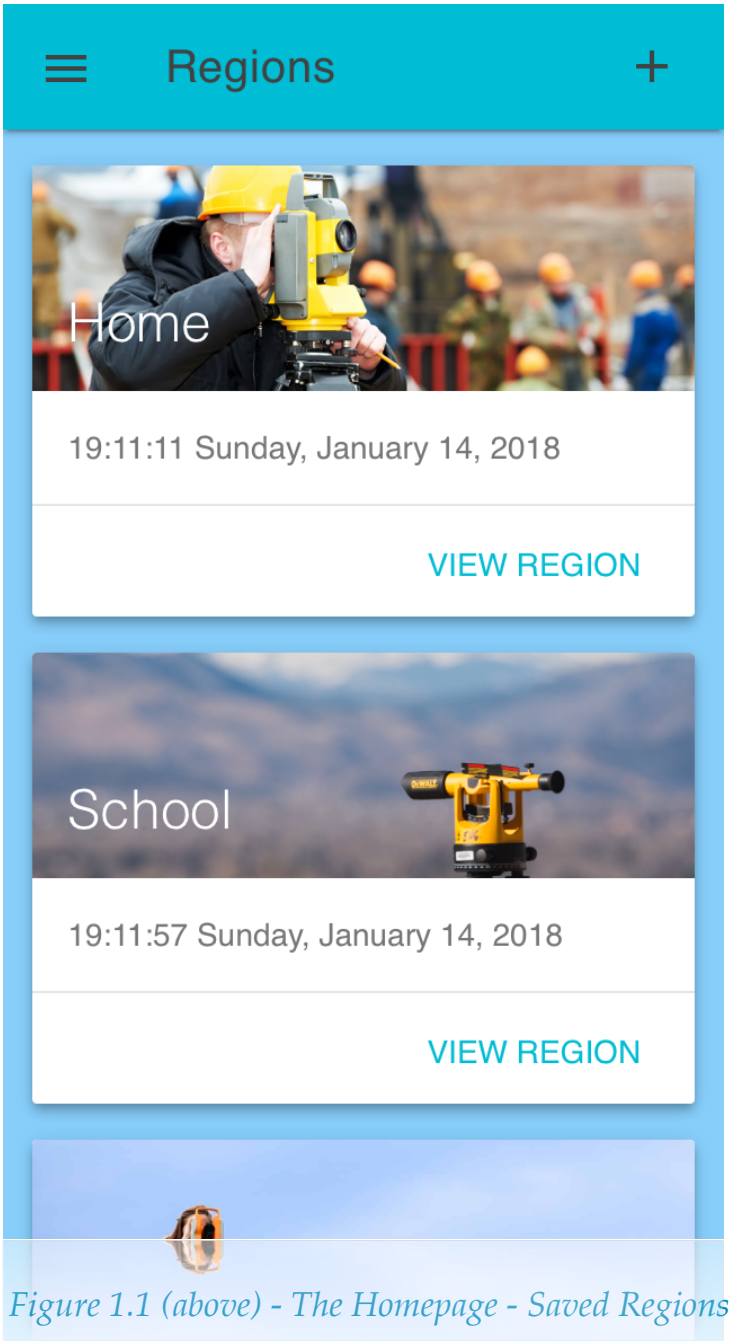


Figure 1.1 (above) - The Homepage - Saved Regions

1.1 Motivation

In real estate, *Professional Surveyors* are brought in to establish the exact size of the properties and compare them against the deed before investing and start the development.

It doesn't matter if you're a interested investor looking to buy a new property or a professional developer looking for the next big project, **Sir Veyer Jr.™** got you covered.

Specially commissioned for **Prop & Tee Pty. Ltd.** in London, UK as a part of their expansion plan to use by their agents and contractors in Australia and Malaysia for sizing up the properties and to get an initial estimate of the cost that'd take to start the development.

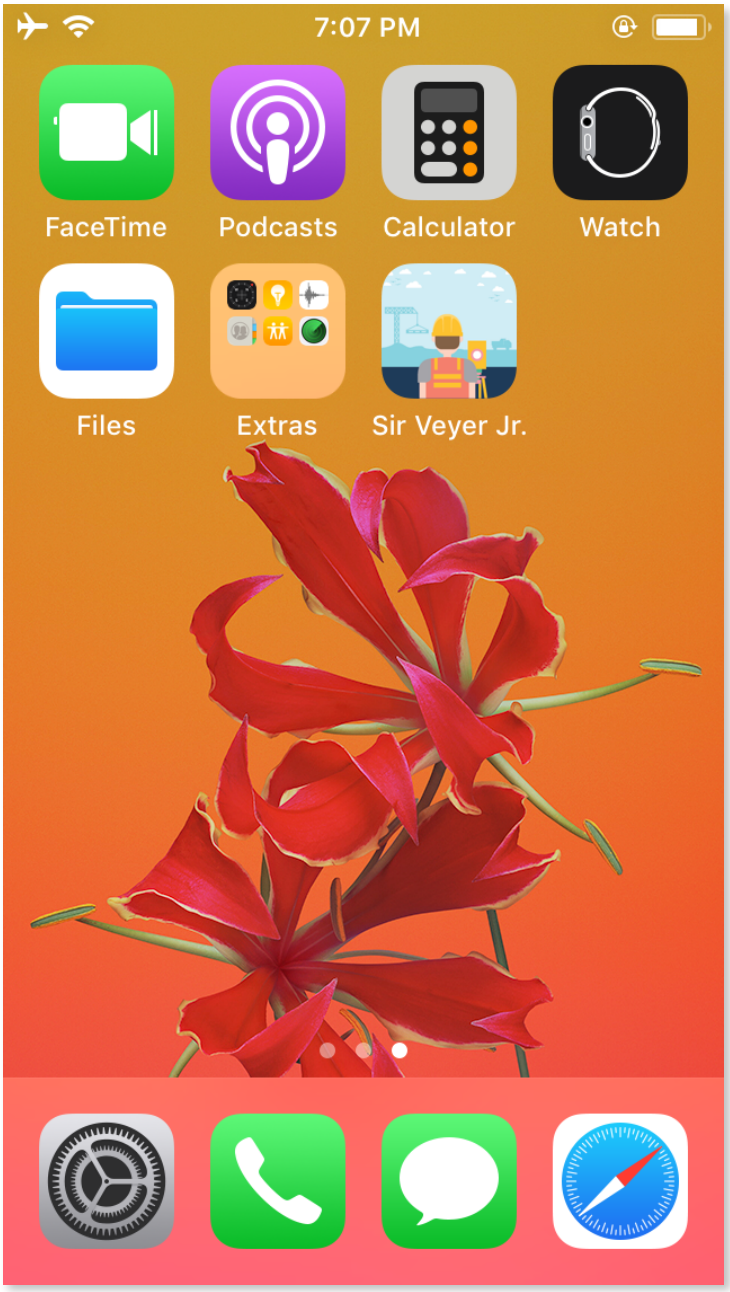
Special features such as dimensions, multi-terrain support, elevation, calculation of expendable areas and displaying the corresponding local zoning laws can be utilized by the customer requirement as the premium version of the application.

2. Getting **Started**

2.1 **Basic** Requirements

- A mobile device running any Operating System with **built-in GPS** functionalities.
- An updated version of any browser of your selection.
- A **working Internet** connectivity.
- **GPS access** from the browser.

Figure 2.1 - Application icon



2.2 **Adding the app** to your home-screen.

App link:
https://sirveyerjr.azurewebsites.net
(This will be changed upon the commission of the premium version)

<u>In iOS devices</u>

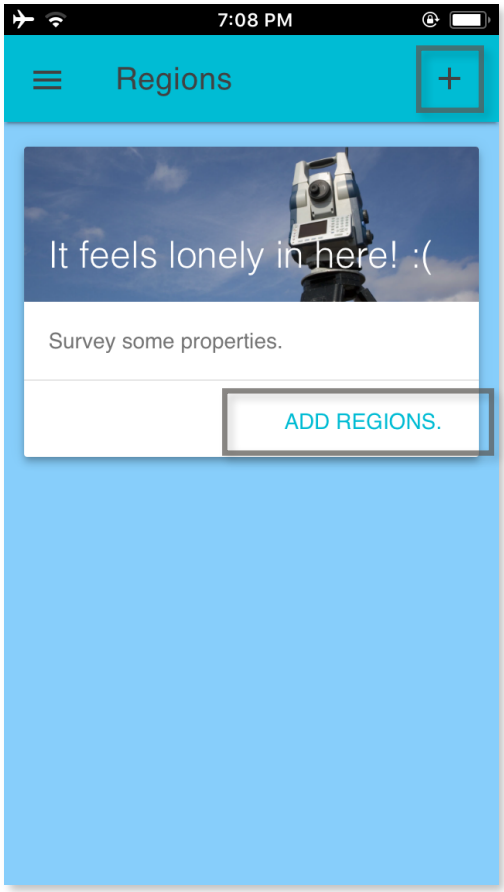
- Open the link from "**Safari**".
- Click "**Add to Home Screen**" from extras menu.
- Check your Home Screen.

<u>In Android devices</u>

- Open the link from "**Chrome**" or any web-browser of your choice.
- Click on the **settings** button.
- Select the option "**Add to Home Screen**".
- **Confirm**.
- Check your Home Screen.

Figure 2.2 - Application icon in iOS.

3. Using the App to save a region



3.1 Initializing

When you are running the app for the first time, you will see the Regions list as empty.

Hit **ADD REGIONS** button under the welcome card to **Start surveying**!

Pro Tip:
When you add a region, the welcome card would be replaced by that and the **+** sign at the top of the list can be used to add regions from that point.

Figure 3.1 - Regions list with the welcome card.

3.2 Adding a region

- Click the first button to add a corner point along the perimeter of the property.
- If the corner is successfully added, then the app will inform you using a pop-up notification.
- The app would display the updated region in purple color with the addition of each new corner location.

Pro Tip:
The app won't allow you to add a corner location if the accuracy is less than 10 meters. If this happens, move around and click the recenter button to scan for the updated current location.

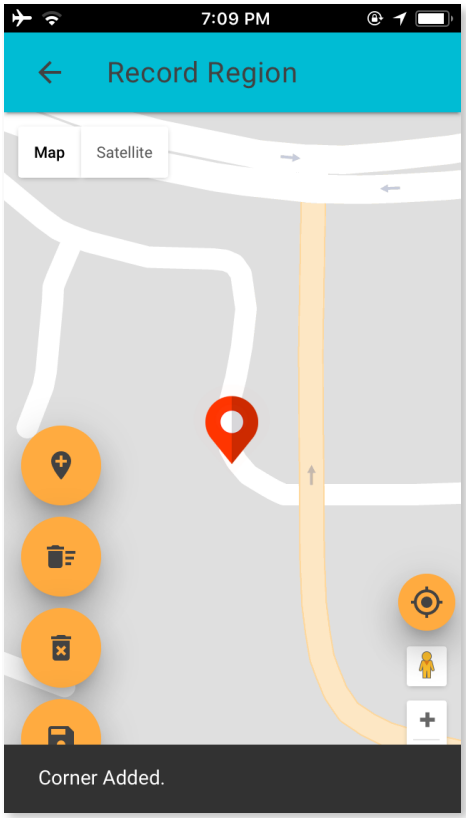
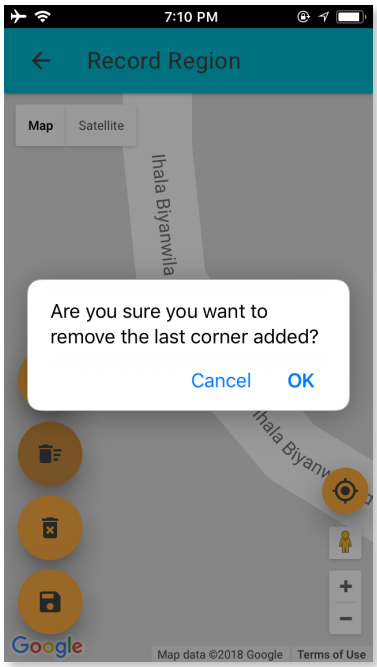
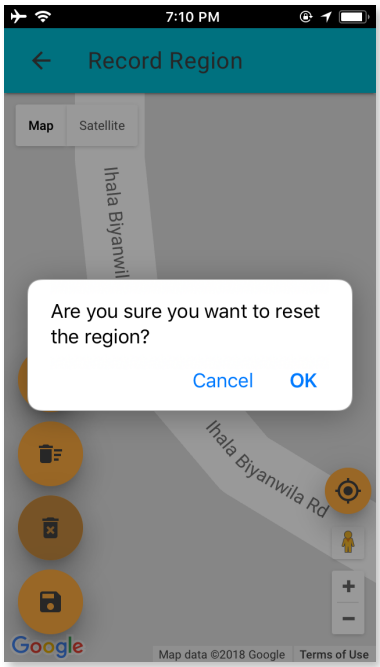


Figure 3.2 - Successfully adding a corner.





3.3 Removing one or all points

- Click the second button to remove the last corner added to the region.
- Click the third button to clear the region completely and start over.
- Confirm the removal.

Figure 3.31 and 3.32 -

Confirmation message-boxes with regards to removal of one or more points.

3.3 Saving the region.

- Click the last button to save the Region to the device memory.
- This would prompt you a message-box asking you to set a nickname for the region.
- After setting a nickname, the app will prompt you to the updated index page.

Pro Tip:
Avoid using a long name for the region as it'd make it harder to reference when accessing it at a later instance.

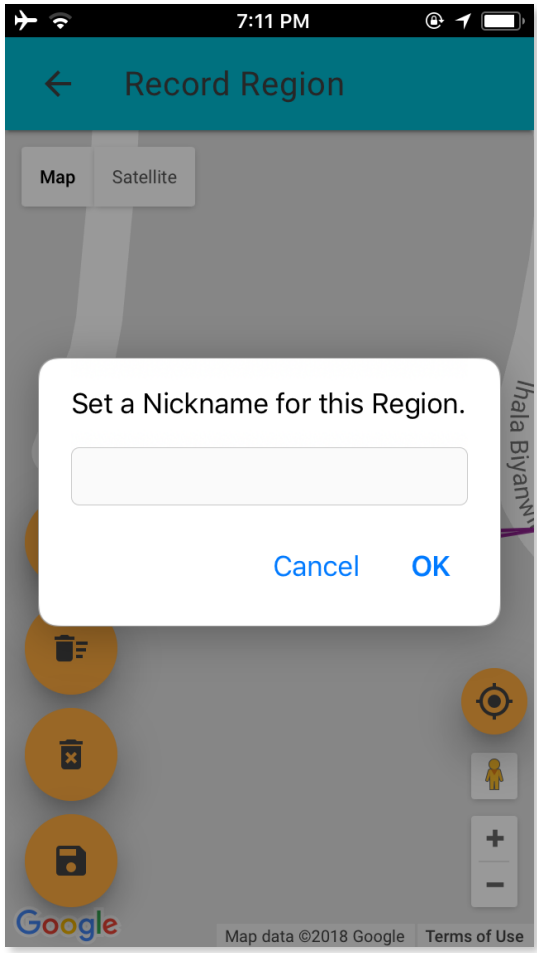
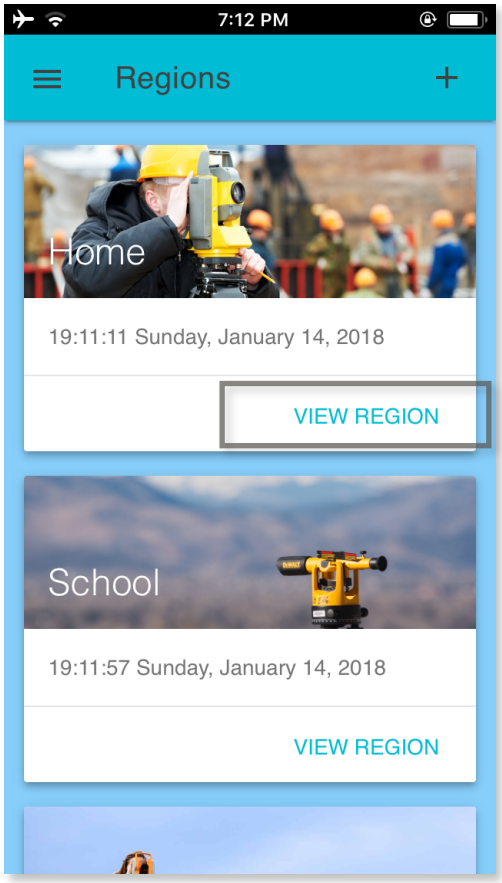


Figure 3.3 - Set nickname message-box

4. Navigating the View Region Page



4.1 Regions list

After adding few regions, the updated regions list will display the **Nickname** of each region as well as **the time, and the date** it was saved..

Hit **VIEW REGION** button under the region card to view the corresponding region and obtain the details.

Pro Tip:
It's recommended to keep track of the regions saved by it's date and time because the list is indexed according to that.

Figure 4.1 - Updated regions list after the addition of few regions.

4.2 View Region page

When you open the view region page, it would initialize an interactive map, on which the **saved region is displayed in blue color**.

Total area of the region in square meters and the perimeter in meters would be displayed in the bottom of the page.

Pro Tip:
Use the recenter button to center the map to the region and fit it to the screen.

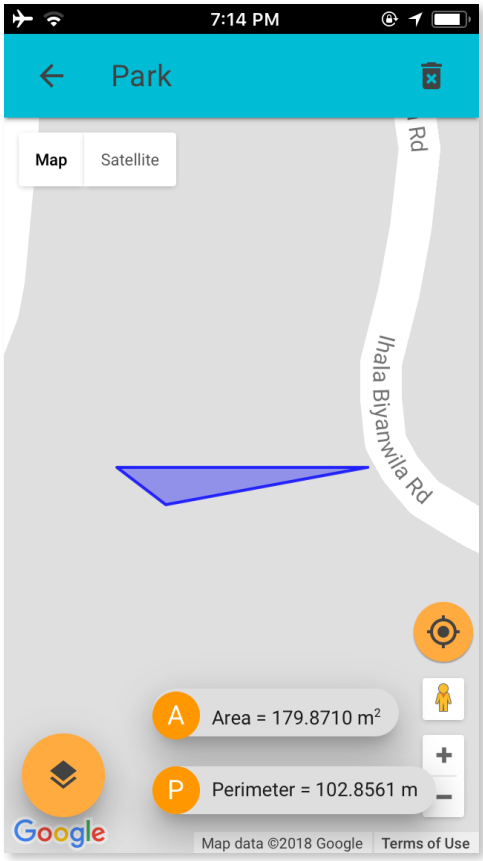
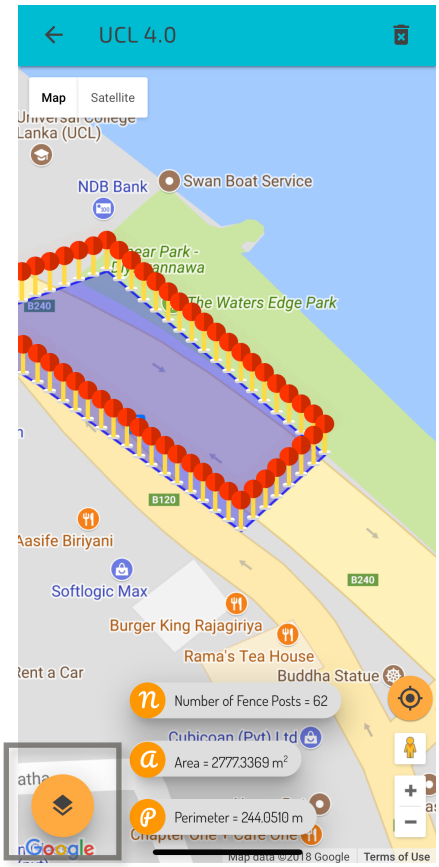


Figure 4.2 - View region page



4.3 Display fence post locations

Toggle fence post button can be used to **display on and off the fence post locations** which are equally spaced 4 meters along the each side of the boundary polygon with a fence post in every corner.

Additionally this would prompt the app to output the number of these fence posts required as a form of a pop-up message.

Figure 4.3 - Fence post locations

4.4 Deleting a region

Clicking on the recycle bin icon on top of the page would prompt the app to display a confirmation message-box asking the user for the confirmation to delete the region.

After agreeing, the app would permanently remove the region from the memory and prompt to the updated regions list.

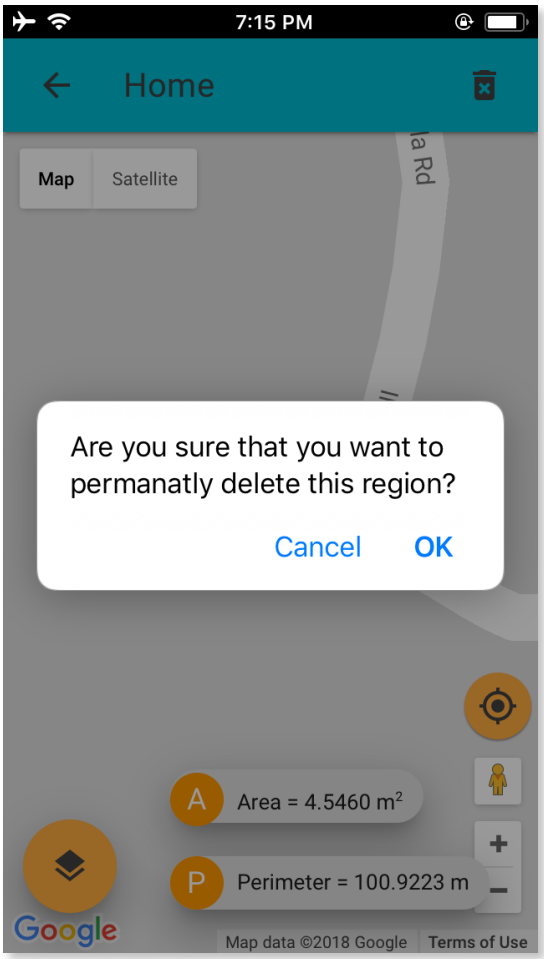


Figure 4.4 -

Confirmation message-boxes with regards to removal of a region.

5. Troubleshooting Information and FAQ

This app has **no technical limitations with respect to the required functionalities**. But you may encounter following issues due to the incorrect device settings and the GPS strength.

1.0 Home Page

1.1 Why can't I add the app to my home screen?

- If you're using iOS, use safari to add the application into your home screen.
- On Android but still not working? Check if your firmware and the browser needs any updating.

1.2 Why does everything look blocky, pixelated and/or with missing image links?

- This would only occur if you're using a browser which doesn't support Google Material Design Lite elements or if you're using an outdated version of a browser. Check if your browser needs updating and update if it needs. If not, it is recommended to use any updated common browser.

1.3 Why aren't my Regions list comes up as empty?

- It won't show any regions in the index page when initializing the map for the first time. Record and save a region for it to show up on the regions list.
- If you did save a region but it doesn't come up and you're getting an error saying your browser doesn't support localStorage it is suggested to use any of the common browsers.

2.0 **Recording and Saving** a new region

2.1 Why am I only getting a empty square with some buttons on it?

- Check if you have your **Mobile Data** and **Location Settings** as on.
- Check if your service provider as allowed you mobile data as the **app requires a working, steady internet** connection.
- If it's not loading a map after those two steps, check for any browser updates available.
- Consider moving to a updated version of any common mobile browsers available.

2.2 Why does it keeps saying I don't have enough location accuracy?

- App wouldn't allow you to add a corner if your location accuracy is less than 10 meters as any possible error would result in a huge difference in the calculations.
- Try moving into another location (preferably an open location) and check if the issue is persistence.
- If you're getting this error repeatedly, it is recommended to check the location accuracy of the device using another tool.

2.3 Why can't I save a region?

- This could happen if your browser doesn't support localStorage. In that case check for the error messages which will pop up. In that case it is recommended to check and move to a updated version of the same or another common browser.
- If you don't have more than two corner locations added in the region, it won't allow you to save a region because it's impossible to have an area between two or less than two points.

3.0 **Viewing** a previously recorded region

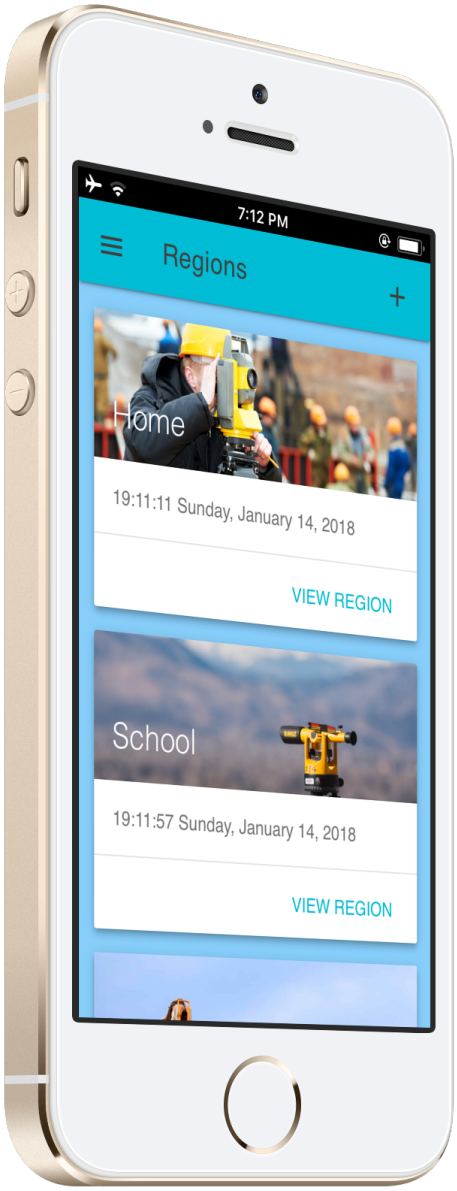
3.2 Why Is the region name blank?

- This only happened when you don't give a nickname when you are saving a region. As the trial version doesn't have the editing and renaming functionalities included, it is recommended to save each region with a proper name. You can always record the same region as a new region and give it a proper name.

3.2 Why am I only getting a empty square with some buttons on it?

- Check if you have your **Mobile Data** and **Location Settings** as on.
- Check if your service provider as allowed you mobile data as the **app requires a working, steady internet** connection.
- If it's not loading a map after those two steps, check for any browser updates available.
- Consider moving to a updated version of any common mobile browsers available.

6.0 Further **Clarifications**



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