

User Manual for Agriculture Pest Control Application



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Overview

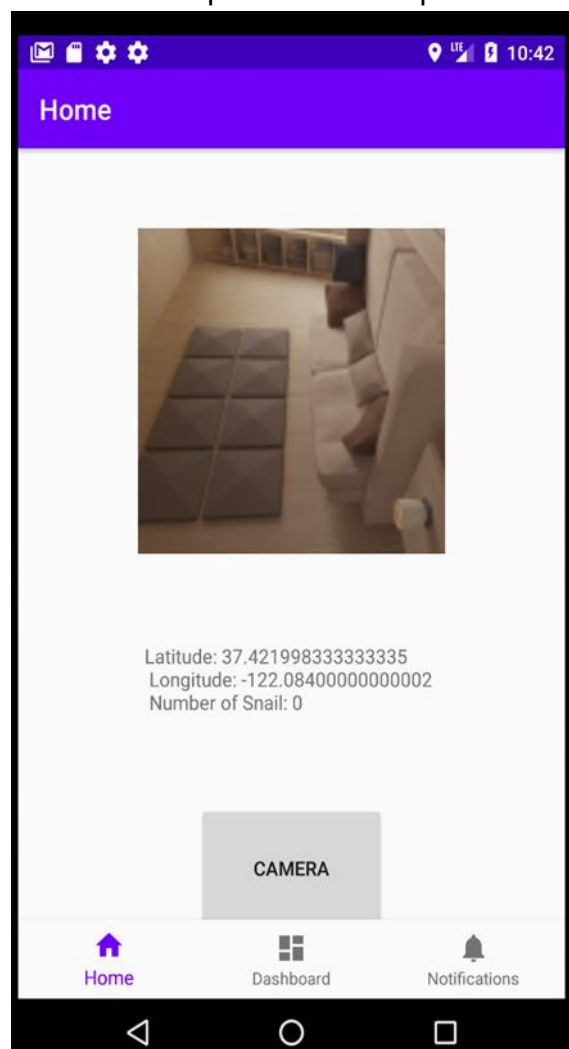
Agriculture Pest Control application is an Android application used to detect the snails in the farmlands. Farmers in WA are losing their crops each year due to snails in their paddocks which are destroying the crops. This application is designed to detect the snails using machine learning model integrated into android application. The app is designed to be easy to use, so it contains only essential functionality.

Home Screen

The home screen contains camera button functionality, it displays the picture taken, latitude, longitude, number of snails and also manually enter the number of snails by user.

Automatic Detection of snails using Camera

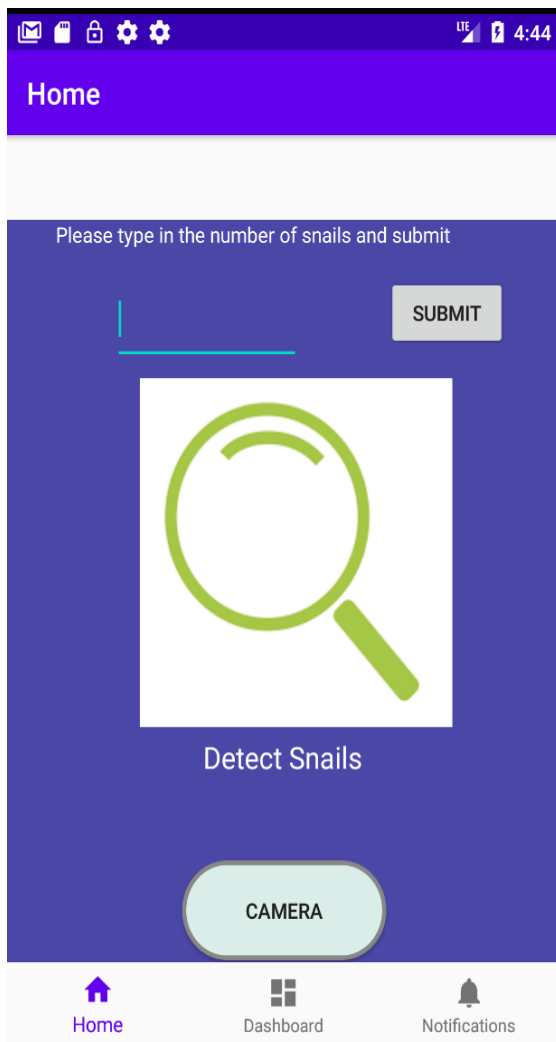
- To open the camera, click on the camera button on the home screen. This will redirect you to camera in the mobile to take pictures of the paddocks containing snails.



- Once the picture is taken using camera, the latitude, longitude, number of snails are shown in the home screen of the application.

Manually entering the snails by user

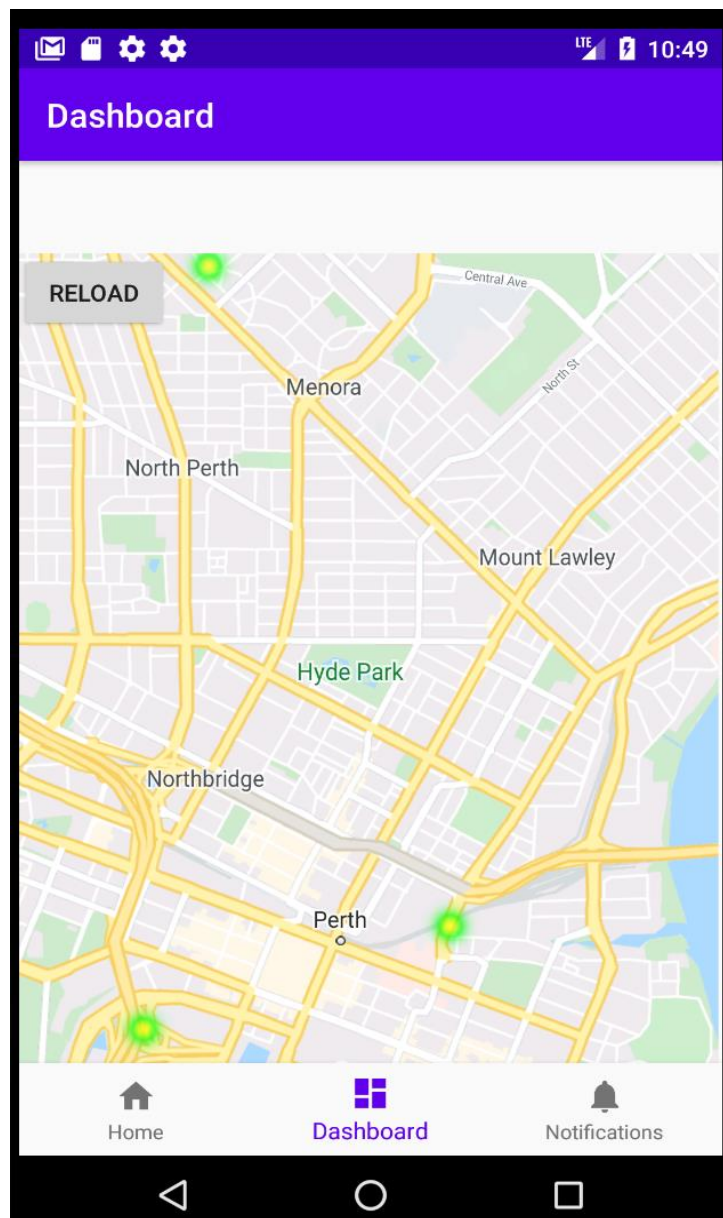
- To manually enter the number of snails, click on the input field on top of the home screen and enter the number.
- To get the coordinates, click on submit button.
- The submit button saves the coordinates in the cloud.



Dashboard Screen

The dashboard screen contains heatmap visualization of the snails in the paddock. This helps the user to visually see the density of snails and can use snail baits accordingly.

- To see the heatmap, click on the dashboard button present in navigation bar below.



Notifications Screen

The notification screen contains the information about the history of logs. Logs contains date and time, number of snails, coordinates of the snails.

- To see the history, click on the notifications button present in navigation bar below

