



Agriculture App

USER GUIDE

VERSION 2.0.0

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Introduction and Purpose

This user guide is for an agriculture app that can help farmers to decide a good time to grow sustainable crops using location and weather information provided by the app.

The purpose of this document is to help the user to navigate the app in order to choose the suitable location to grow crops for getting highest productivity. This guide will explain the interface of each page as well as assist the user on how to enter their desired input for crop information, location name and the weather information they would like based on the date they want.

App Features

This app utilises existing location mapping and forecast weather and the users are able to view the historical temperature data up to a year ago, by providing the data will help the farmers to decide what are the suitable crops to plant at the particular location.

Below is a list to show the features of this app:

Add Crop

- The user should enter the information of the crop such as suitable season for the planting, optimum temperature range , low yield offset temperature and tolerance days
- User should be able to save the crop onto the main page
- The crop name should display on the main page of the app

Add Location

- The user is able to search the location that they are planning to plant the crops
- A map should be displayed and direct user to the place where they searched
- User should be able to save the location with nickname, and the location name should be shown
- The saved location should display on the main page of the app

View Location

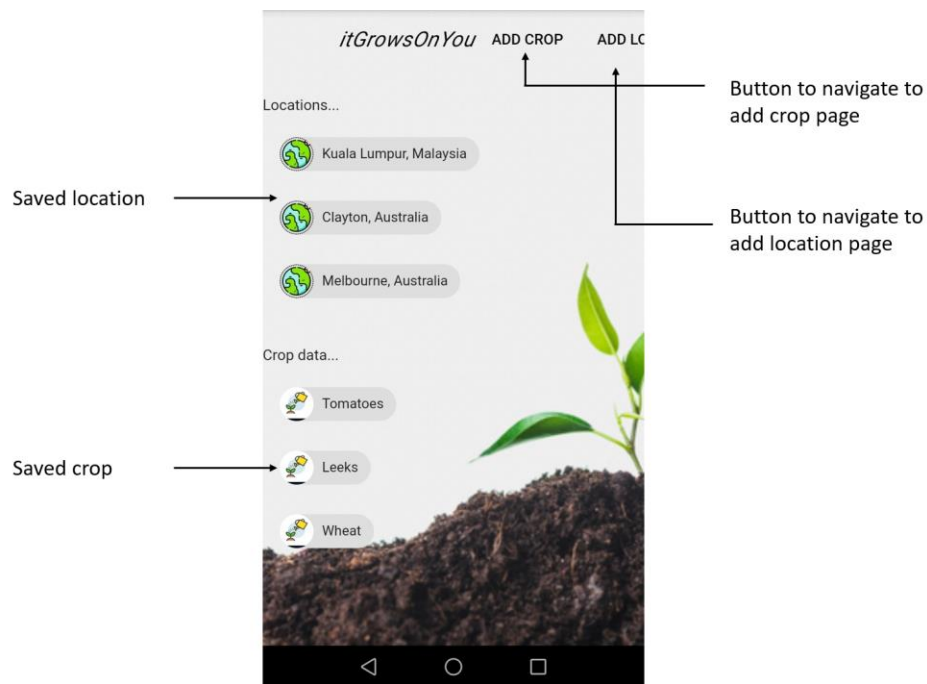
- User should be able to click on the location icon that is on the location list on main page. After clicking, the user should be directed to the view location page
- View location page should show the location map and details on the map
- User should be able to view the historical data once they selected a date that is within one year
- The date selected should display the suggested suitable crops and the respective weather that happen on that day
- User should be able to delete the location.

Instructions for Use

General Overview

- Contain a total of 4 pages (Main page, Add crop page, Add location page and View location page)
- To navigate to each of these pages, click on their specific button

Main page:



- This is the main page of the application.
- Any user visiting the web application will be directed to this page first.
- User can have a clear review on saved crop and location listed here.

Add crop page:

← Add Crop

Please enter the below information to add a crop

Crop Name:

Crop Name

Minumum Temperature within Safe Temperature Range (°C):

Minimum Temperature

Maximum Temperature within Safe Temperature Range (°C):

Low Yield Offset (°C):

Low Yield Offset

Tolerance (Days):

Tolerance

Seasons:

☒ Spring

☐ Autumn

☐ Winter

☐ Summer

STORE IN MAIN PAGE

Save the data after filled in

- User can enter the crop information, such as name, suitable season of growing, optimum temperature range, low yield offset.
- User can press add button to store the crop data.
- The crop will display onto the main page after successfully saved.

Add location page:

← Add Location

Nickname for location (optional)

Location nickname...

Enter a location:

City:

City name...

Country:

Country name...

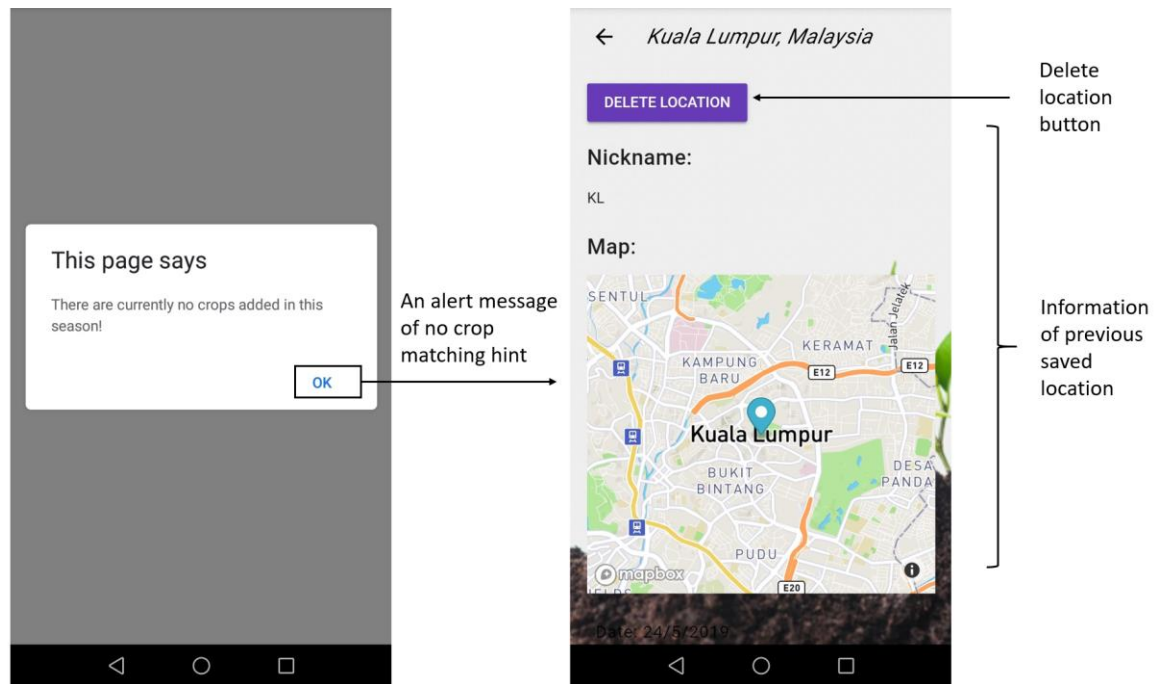
SEARCH FOR LOCATION !

Search the location

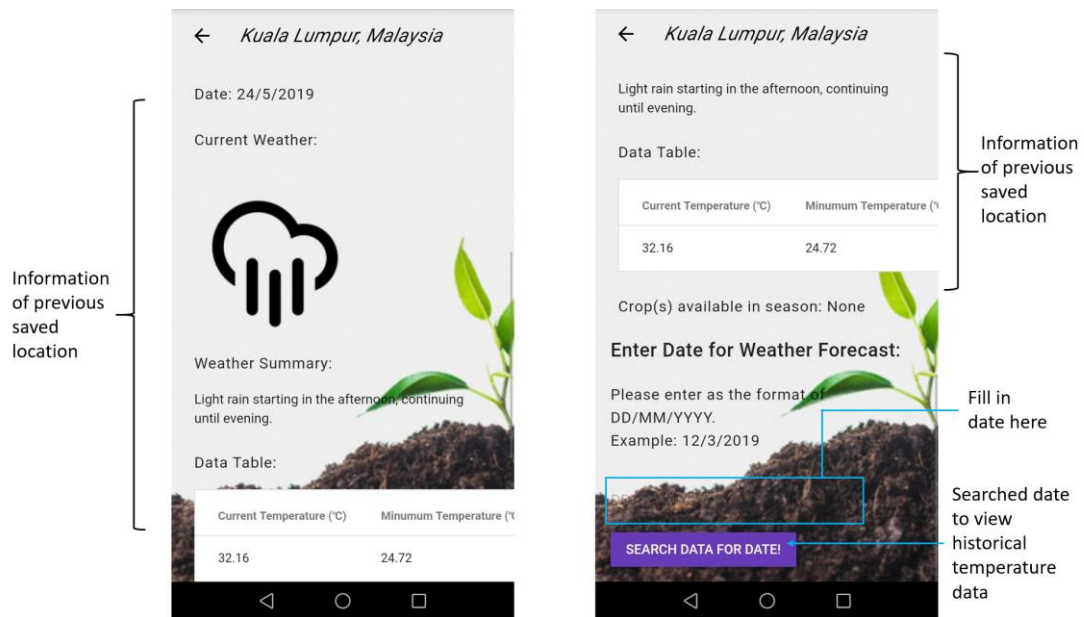
Searched location will show here as an annotation

- User can enter the location they would like.
- After pressing search location button, the map will pan to the location and pop up the final location name as an annotation.
- User is be able to set a nickname for this location if they want.

View location page:

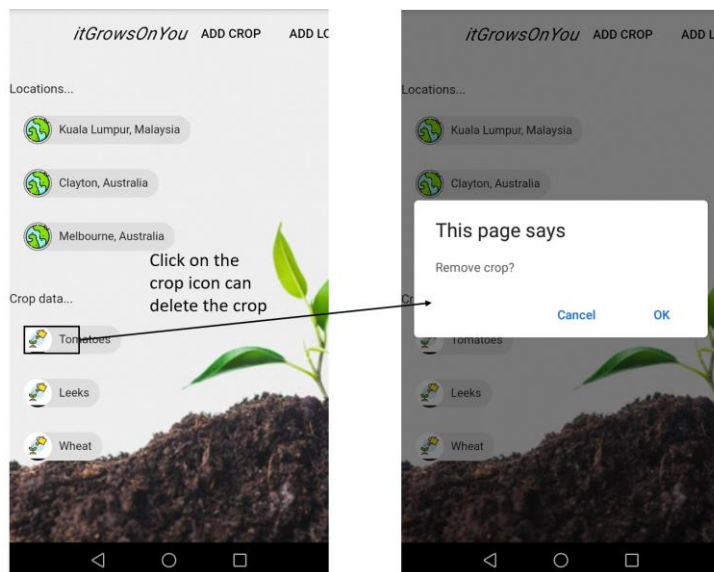


- User can review the details of saved location (nickname, map , current weather, weather summary, and data table with the temperature data)
- User is able to delete the saved location by clicking the 'DELETE LOCATION' button at the top.



- At the bottom the user can enter a date within the last 12 months to obtain past information of the weather and temperature.
- The past data will be displayed when user inputs a date and click on search data for date button.

Delete crop:



- User is able to delete the crop from the main page by tapping or clicking on the icon of the crop.

Known Bugs or Limitations

In this agriculture app, the user is able to view the historical data so that they can decide on what kind of crops to plant on the location better, however this app is only able to check the past data from one year ago. Since the weather is not affected by time but season. However, as the environment is polluted, the earth has different kinds of climate changes that are unpredictable. therefore, this app is not accurate but just for assisting the farmer on making decision. besides that, this app cannot suggest the user for which crops to plant, this action must be made by the user.

The table shown in View Location page is not completed due to the limitation of the webpage setup codes. This should be fixed in the future time once we update the user interface.