



USER MANUAL: Mobile Application



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Onboarding

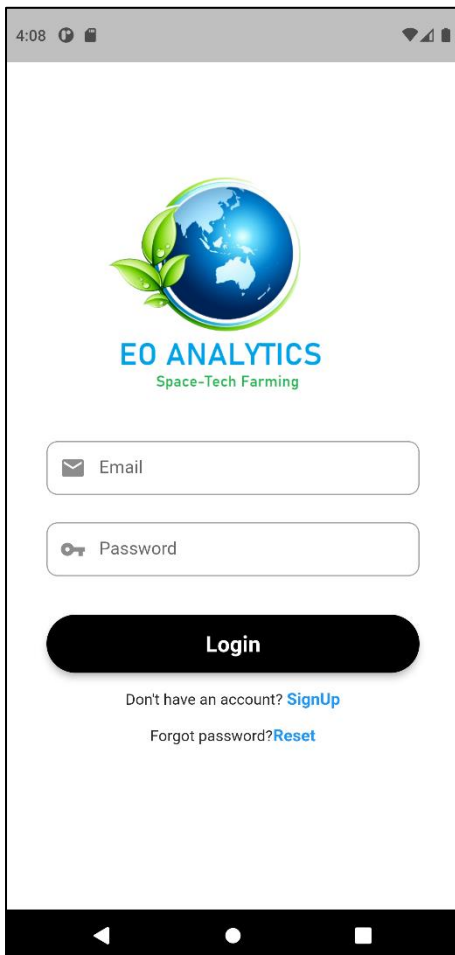
a) SignUp.

New Clients: Farmers accessing the EO Analytics Mobile application for the first time will have to create an account on the platforms to allow it to access information about the Farmer's Farm.

Existing Clients: Farmers who already have an account with EO Analytics will have to just "SignIn" (Step 3 and 4)

1

Click "SignUp" text to reveal the Registration form



4:08

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Space-Tech Farming

Email

Password

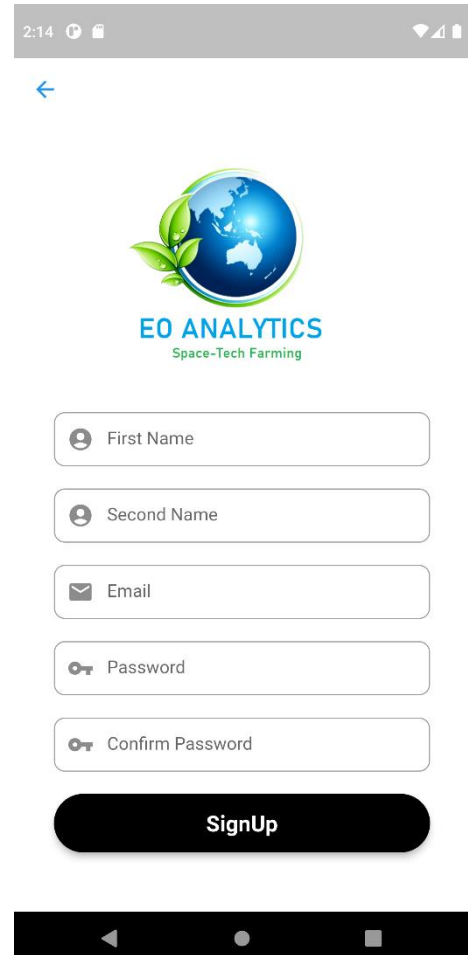
Login

Don't have an account? [SignUp](#)

Forgot password? [Reset](#)

2

Login by filling in your details. Once complete click "SignUp".



2:14

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First Name

Second Name

Email

Password

Confirm Password

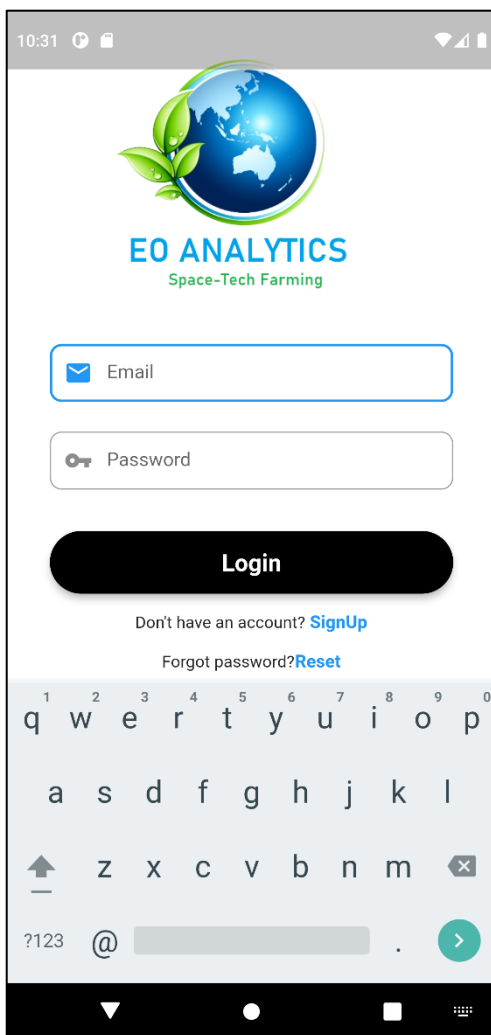
SignUp

b) SignIn

For new Farmers, after creating an account in the EO Analytics Platform. The next step is to login or SignIn to the Platform and have a view of information about their Farm

3

SignIn by filling in your email address and Password that were created during registration



10:31

EO ANALYTICS
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Email

Password

Login

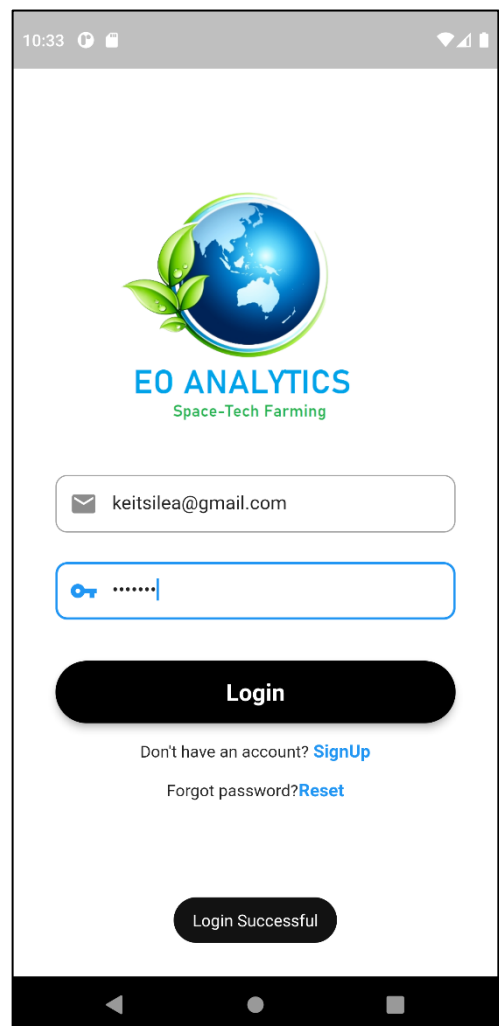
Don't have an account? [SignUp](#)

Forgot password? [Reset](#)

q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123 @ . >

4

Click "SignIn" button to navigate to the Home Screen



10:33

EO ANALYTICS
Space-Tech Farming

keitsilea@gmail.com

.....

Login

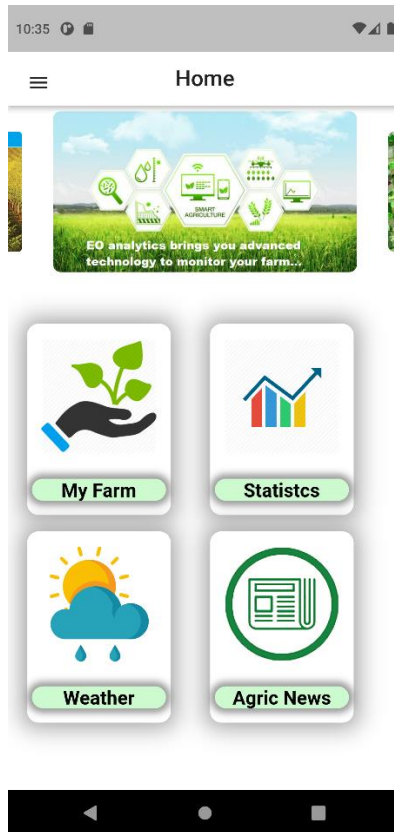
Don't have an account? [SignUp](#)

Forgot password? [Reset](#)

Login Successful

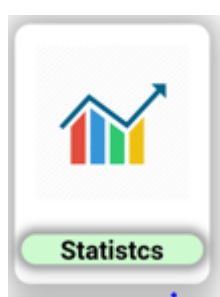
Home Screen Buttons

The Home Screen has 4 buttons, which allows the famers to access information about Crop Health, Soil Moisture and Crop Yield of their Farm. They also have access to Weather information's and Latest Agric-News.



The button “**My Farm**” allows farmers to view the currents real-time status of the following in their farm:

- a) Crop Health
- b) Soil Moisture
- c) Crop Yield



The button “**Statistics**” allows farmers to view and access 3-months records or information of the following variables their farm:

- a) Crop Health
- b) Soil Moisture
- c) Crop Yield



The button “**Weather**” allows farmers to view and access weather data and status of their location.



The button “**Agric News**” allows farmers to view and access new blogs and articles about Agriculture in Botswana.

Crop Health Measurement

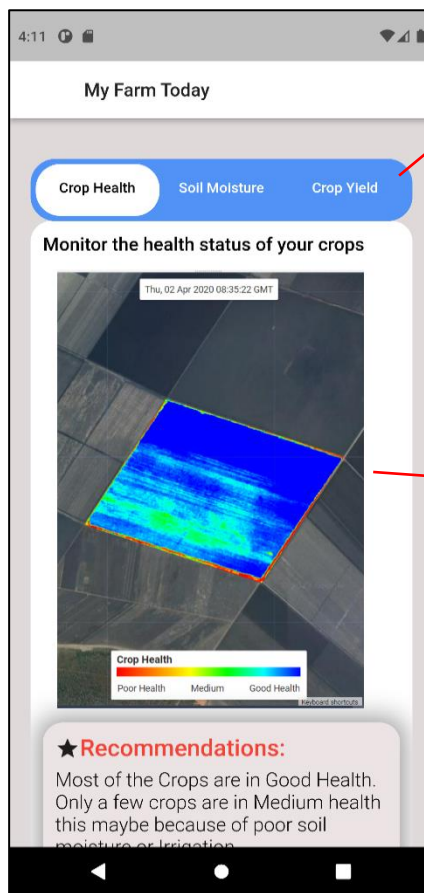
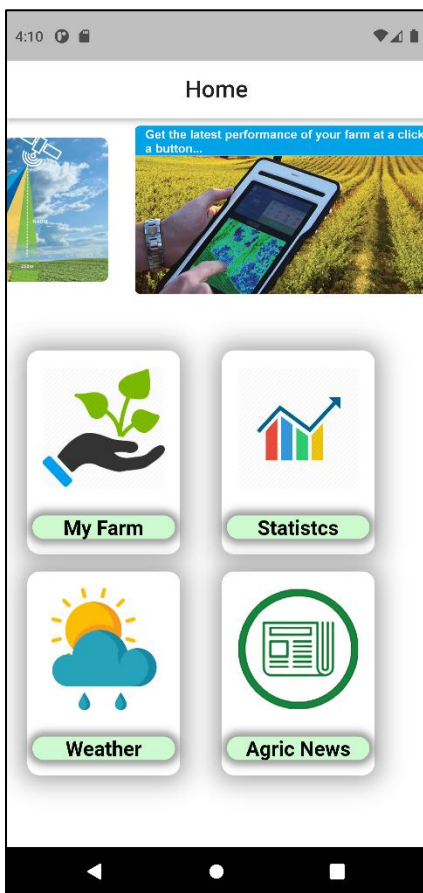
“My Farm” button allows for access to key **3-farm measurement** namely; Crops Health, Soil Moisture and Crop Yield in near real time. The first measurement is Crop Health.

5

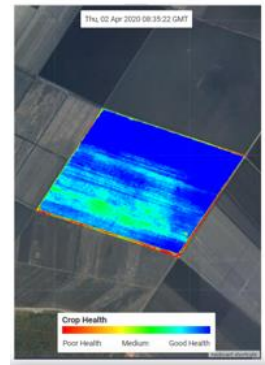
Click on “My Farm” to Navigate to Crop Health Measurement. A Toggle Bar will appear show Crop Health the Variable currently being measured

6

Screen with a Toggle Bar and all the 3-farm measurements on it appears. The Variable currently being measured is highlighted in White



Toggle Bar: The Crop Health Button Highlighted in Whites as the selected or measure variable



Satellite Image of the Farm with colour ramp to indicate Bad, Medium or Good Crop Health

Soil Moisture Measurements

The toggle bar is used to transition between Crop Health Measurement and Soil Moisture Measurements.

7

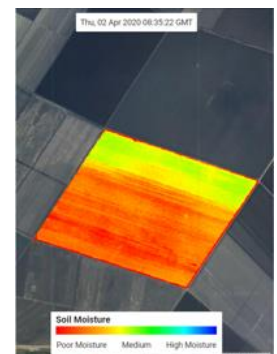
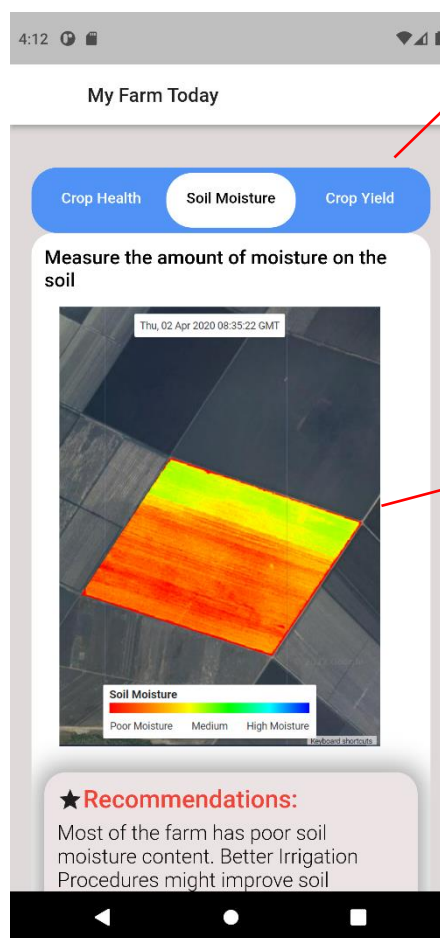
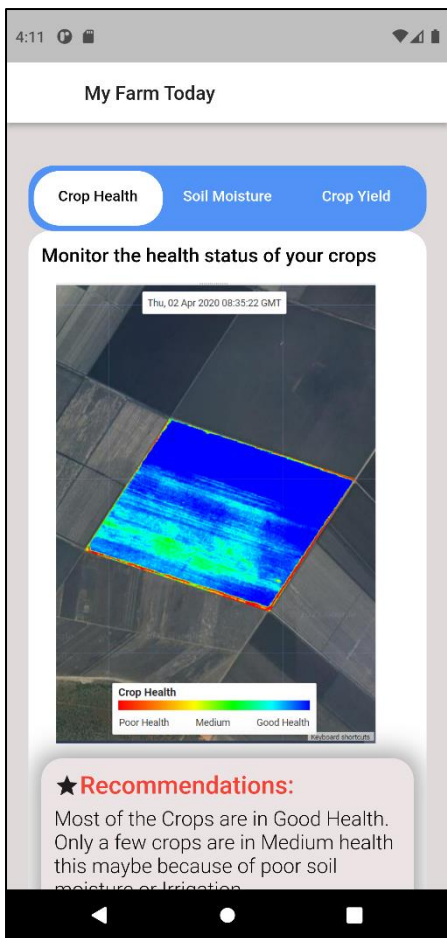
Click 'Soil Moisture' on the Toggle Bar to navigate to Soil Moisture.

8

Screen will transition to Soil Moisture Measurements.. The Variable currently being measured is highlighted in White



Toggle Bar: The Soil MoistureButton Highlighted in Whites as the selected or measured variable



Satellite Image of the Farm with colour ramp to indicate Bad, Medium or Good Soil Moisture

Crop Yield Measurements

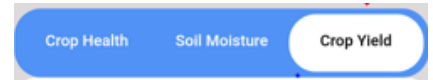
The toggle bar is used to transition between Soil Moisture Measurements and Crop Yield Measurements.

9

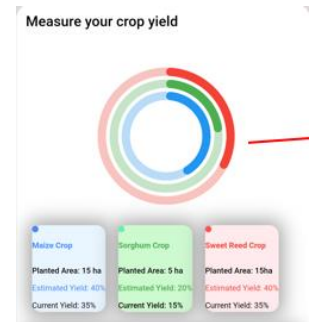
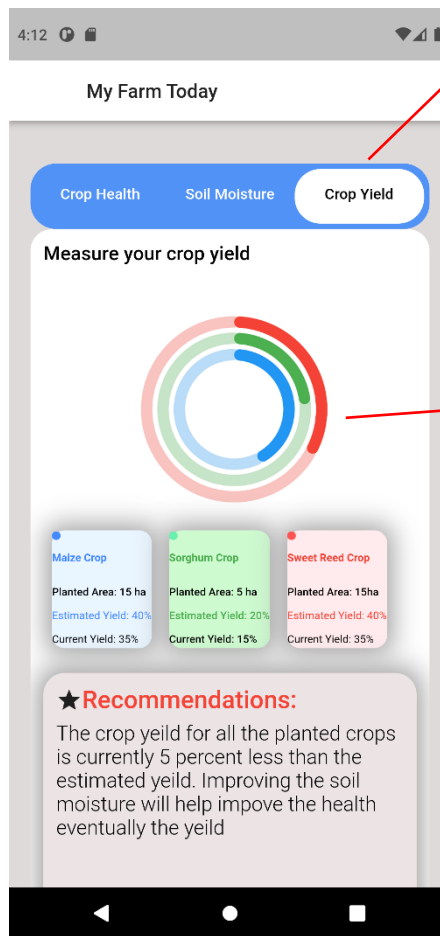
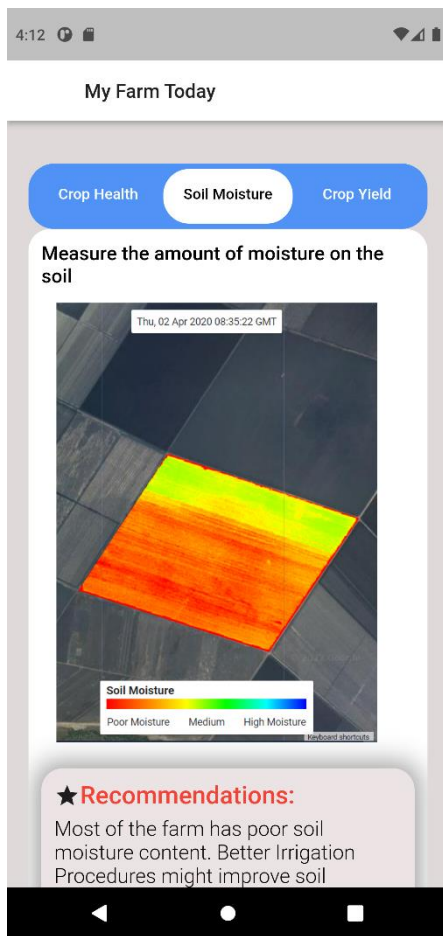
Click 'Crop Yield' on the Toggle Bar to navigate to Soil Moisture.

10

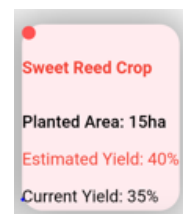
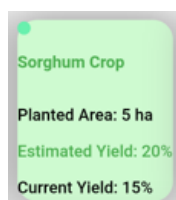
Screen will transition to Crop Yield Measurements.. The Variable currently being measured is highlighted in White



Toggle Bar: The Crop Yield Button Highlighted in Whites as the selected or measured variable



Radial Pie chart Showing the percentage of current crop yield against the Estimated or expected



Crop Report Card

Planted Area: This is the areas in hectors planted with the particular crop

Estimated Yield: This is the expect Yield from the Planted area. It is measured in percentage.

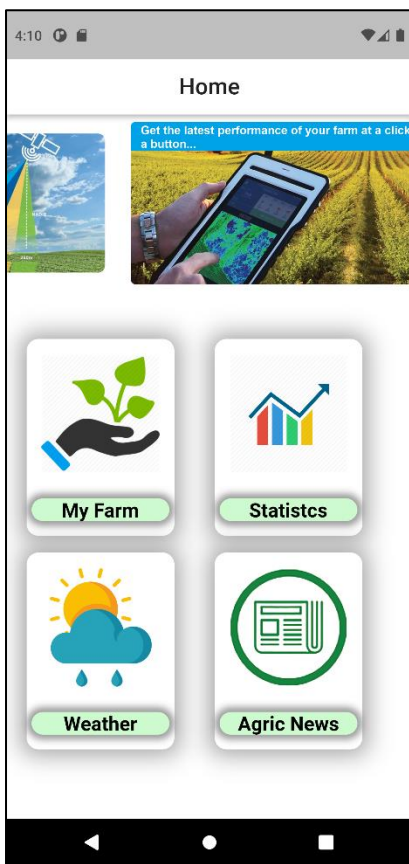
Current Yield: It is the Percentage of the current of the Yield.

Statistical Data

The Statistics button give you access to 3 months data of the Farms Crop Health, Soil Moisture and Crop Yield.

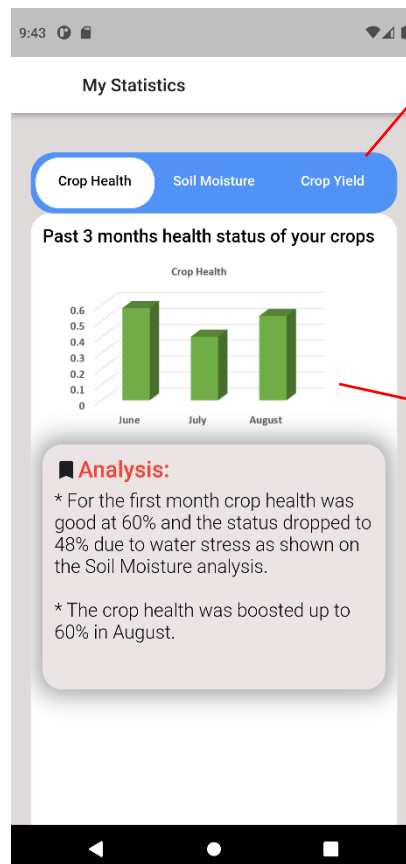
11

Click on "Statistics " to Navigate to Farm statistics. A Toggle Bar will appear show Crop Health the Variable currently being measured



12

Screen with a Toggle Bar and all the 3-farm measurements on it appears. The Variable currently being analysed is highlighted in White



Crop Health Soil Moisture Crop Yield

Toggle Bar: The Crop Health Button Highlighted in Whites as the selected or measure variable

Past 3 months health status of your crops

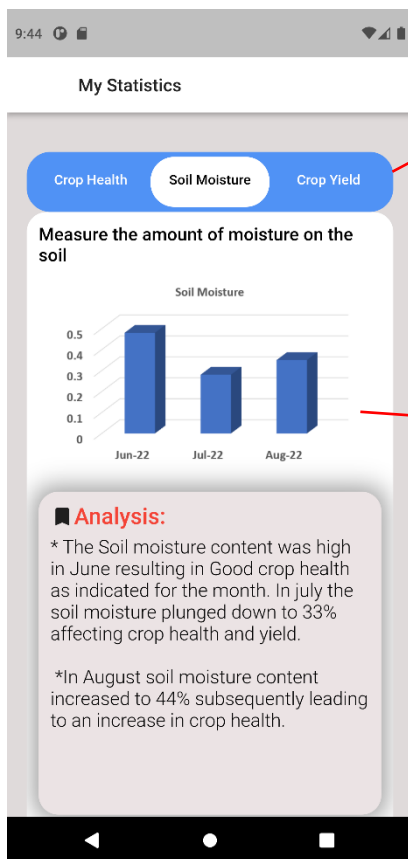


The bar graph indicates the summary of the performance of the crops health status for the 3 previous months measured.



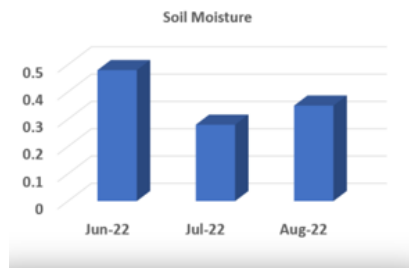
13

Screen with a Toggle Bar and all the 3-farm measurements on it appears. The Variable currently being analysed is highlighted in White



Crop Health Soil Moisture Crop Yield

Toggle Bar: The Soil Moisture Button Highlighted in Whites as the selected or measure variable

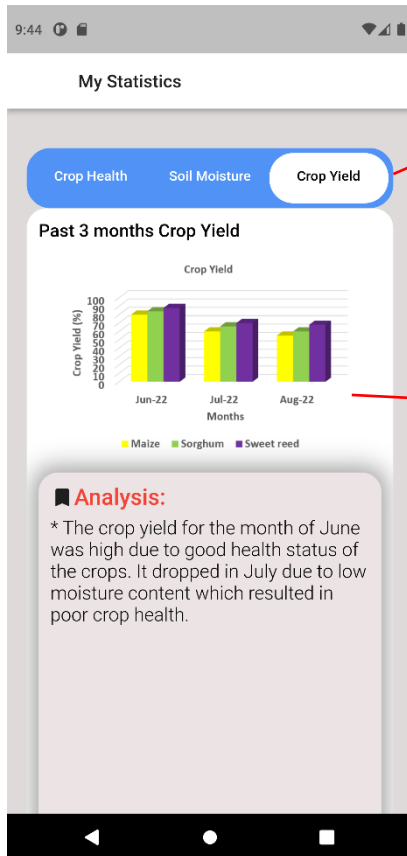


The bar graph indicates the summary of the soil moisture content measured over the 3 previous months.

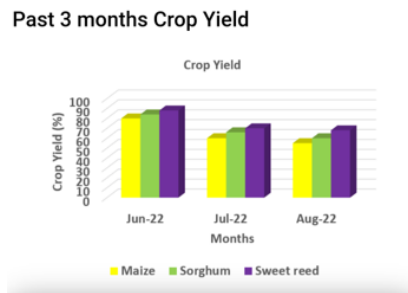


14

Screen with a Toggle Bar and all the 3-farm measurements on it appears. The Variable currently being analysed is highlighted in White



Toggle Bar: The Crop Yield Button Highlighted in Whites as the selected or measure variable



The bar graph indicates the summary of the crop yield obtained for the 3 previous months.

Weather

The Weather button gives you access to current weather and 7 days weather forecast on the locality (region) your farm is located.

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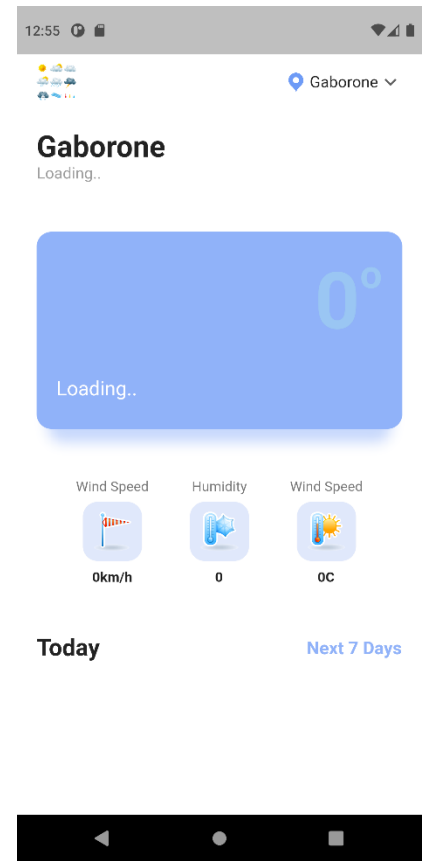
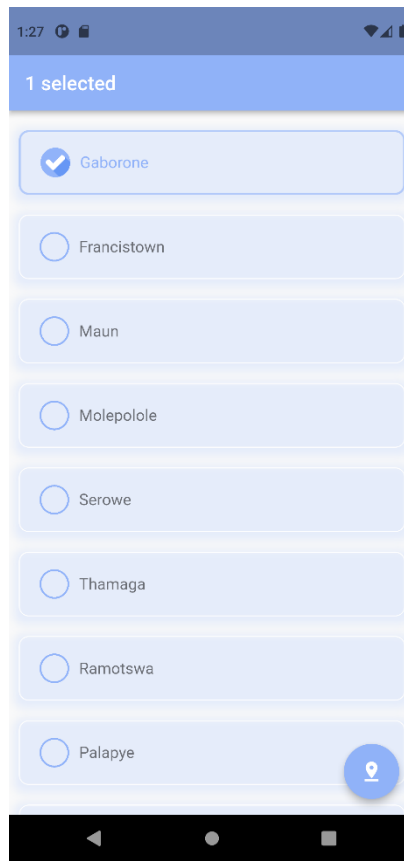
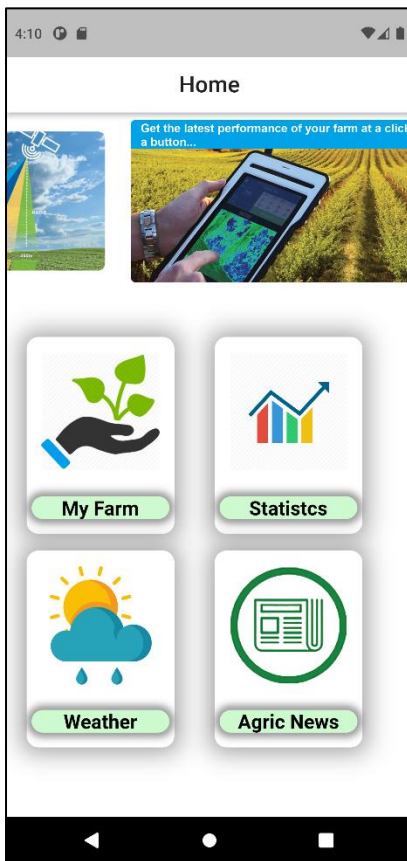
Click on "Weather" to Navigate to weather page. A list of cities, towns and villages will appear. Click on the one your farm is located.

16

The screen will load and show the places across Botswana.

17

The screen will load and show the current weather of your preferred place



Agric News

The Agric News button gives you access to the latest news about agriculture across the country. The news include latest tech developments in agriculture, articles on health tips and disease control for both crops and livestock to name a few.

18

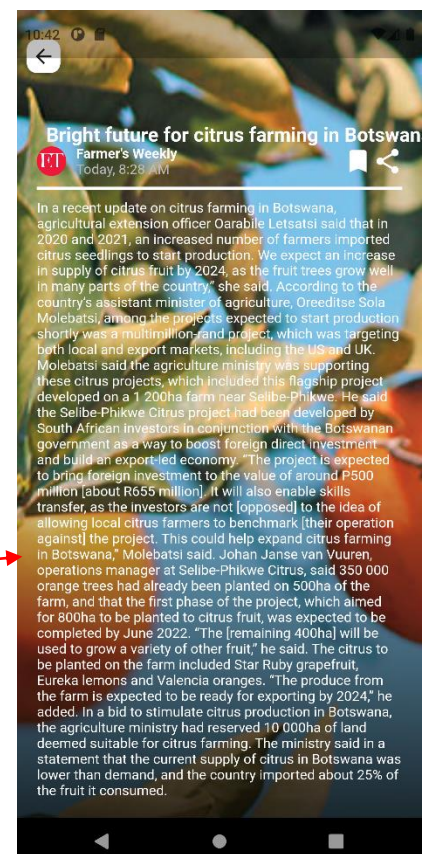
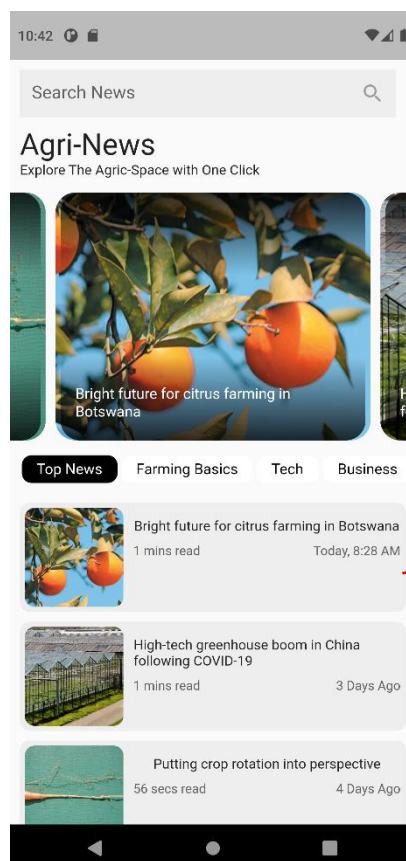
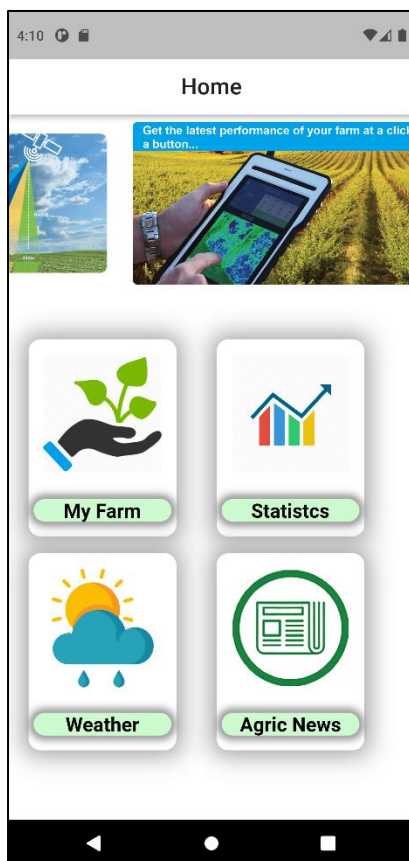
Click on “Agric News ” to Navigate to News page. A list of articles will appear.

19

The screen will load and show the a slideshow and list of news to select from.

20

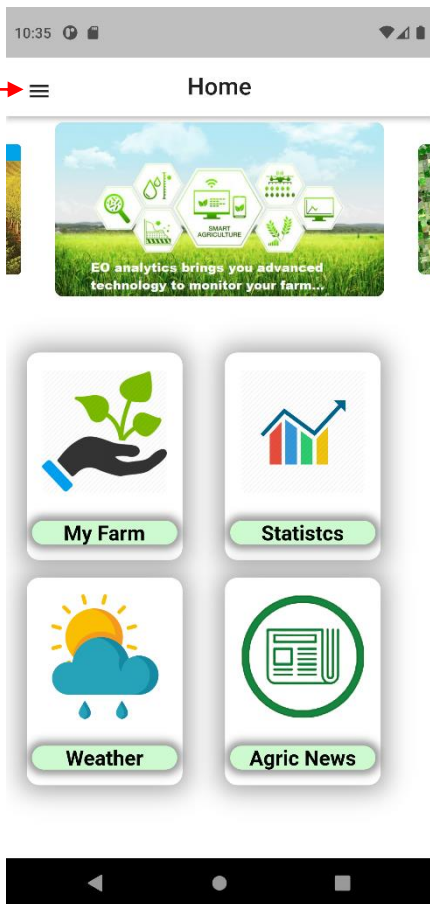
Click on one of the articles to read the full news.



Navigation Drawer Buttons

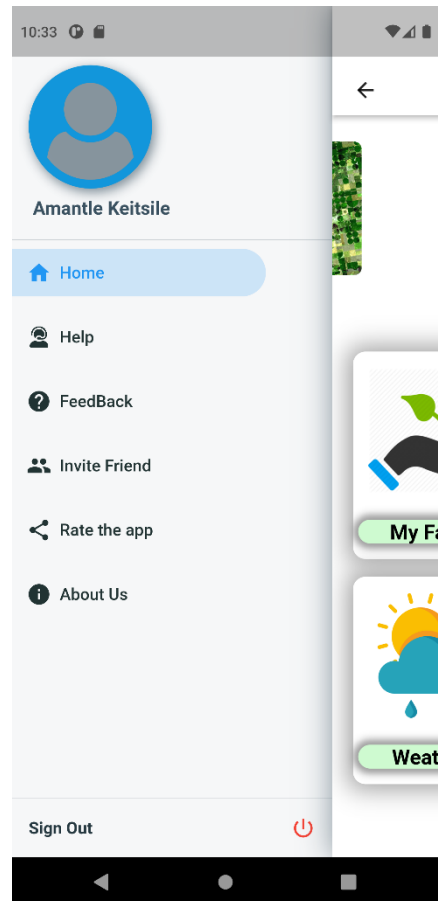
19

Click on Navigation drawer icon



20

On the navigation drawer a list of buttons will appear



Help Button

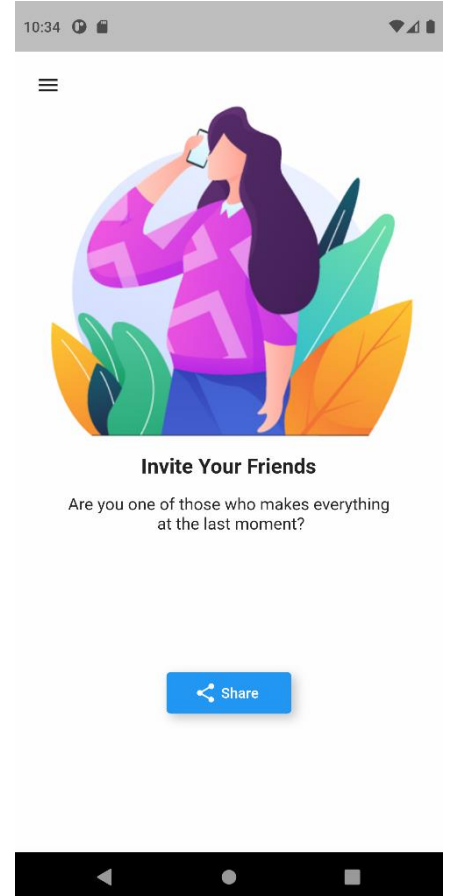
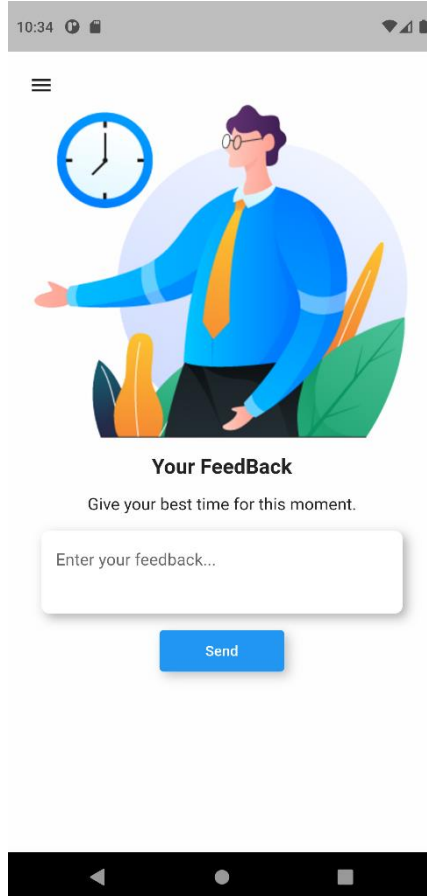
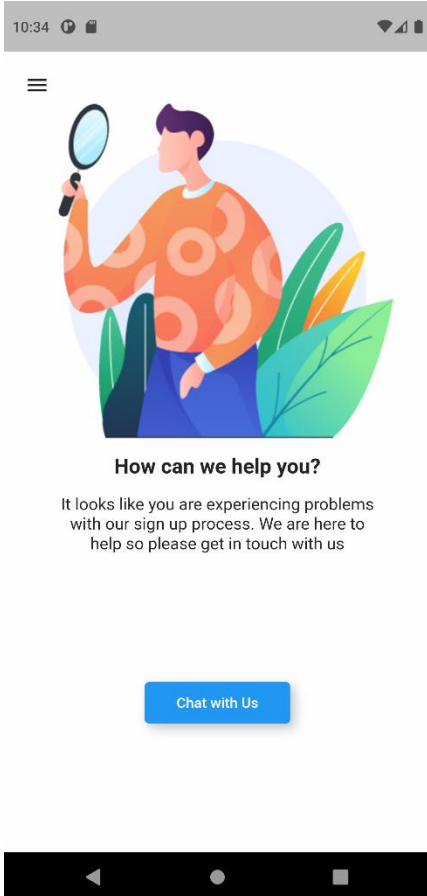
This button is for **troubleshooting**, if you are experiencing problems with the application you chat with us using the help button

Feedback Button

If you want to give information on your experience with the application you can type your feedback here for us to act on it to improve the application.

Invite Friend Button

You can share the link to download the application with your friends





EO ANALYTICS

Space-Tech Farming

About Us Button

Provides a brief background of the company and its main goal.



About Us

EO Analytics is a 100% Botswana citizen owned company made up of a team of 4 researchers. The team members have academic and working experience from both the University of Botswana (UB) and Botswana University of Agricultural and Natural Resources (BUAN) covering key areas of Agriculture, satellite Image processing, Deep learning, Data science and Spatial analysis.

The main goal of this application is to provide precise farming which entails the use of satellite images and machine learning to monitor and optimize farm performance. This application maintains and improve efficiency in morning key factors of food production at the farm. These key factors are the main factionalities of the application and they include; Crop health, Soil Moisture and Crop yield..

 [eoanalytics@gmail.com.](mailto:eoanalytics@gmail.com)

Email: You can contact us at this email address .

 [eoanalytics@gmail.com.](mailto:eoanalytics@gmail.com)

