## **Functional requirements**

1. Users can find the application on google play; it’s free.
2. User creates an account.
3. User login by entering username and password.
4. User can change the language (Arabic, English).
5. Forget password (restore by an email).
6. User can add:
7. Plant photo.
8. Plant name.
9. More plants depend on the number of sensors.
10. Users can ask for a report.
11. A notification appears when there are changes in PH readings.
12. A notification appears when the moisture readings do not change.
13. The device takes continuous readings of PH, Moisture, humidity, and temperature.
14. The water pump is activated depending on the moisture reading.
15. Plant’s condition.

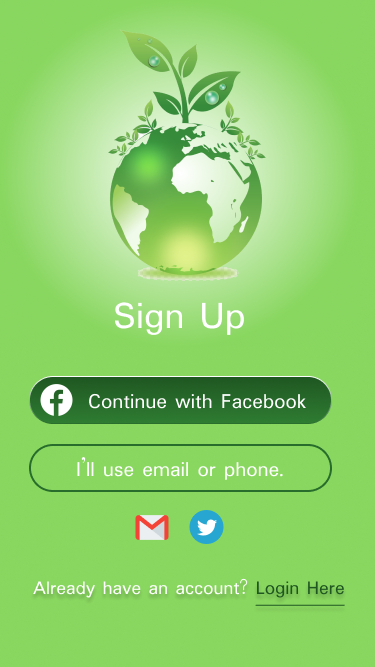
**The first scenario (sign up):**

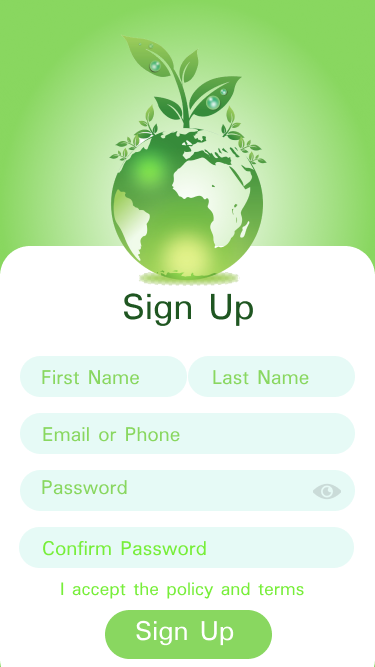
* User opens the Application.
* User sign up using Email or Phone.
* User enters required information.
* User verify the information.
* User save account on the database.
* User goes to Home page.
* User add plants.
* Readings of these plants will appear on the Home page.
* User can see the statistic of each plant.
* An alert will occur.

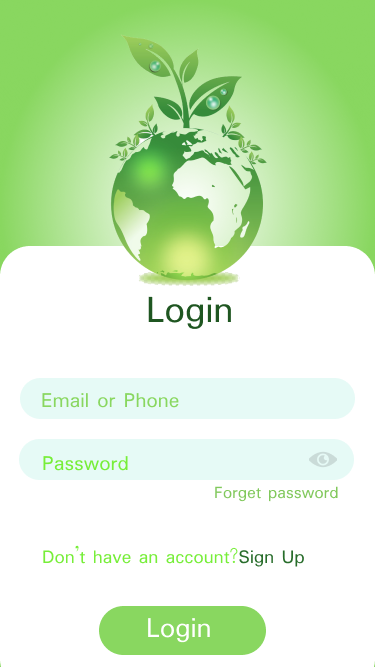
**The second scenario (sign in):**

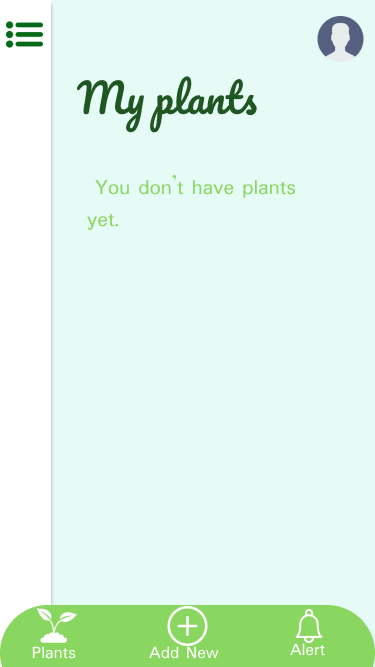
* User opens the Application
* User sign in using Email or by entering username and password
* Verify the information
* Show Home page
* User add plants
* Readings of these plants will appear on the Home page
* User can see the statistic of each plant
* An alert will occur

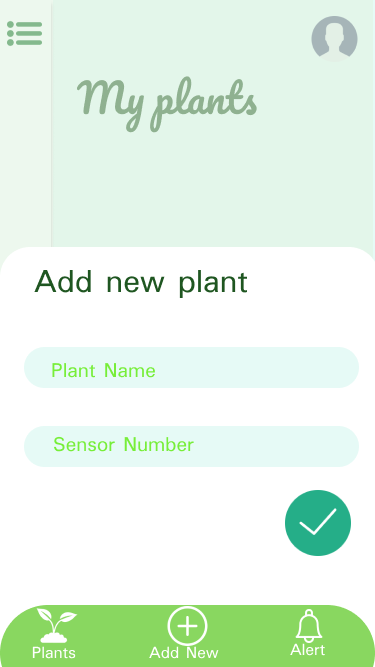


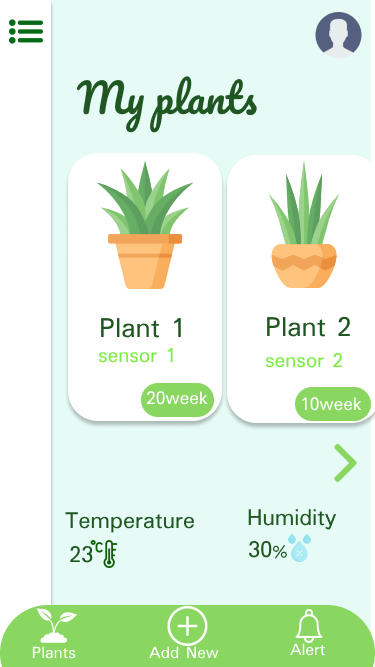
 \*\* Interfaces

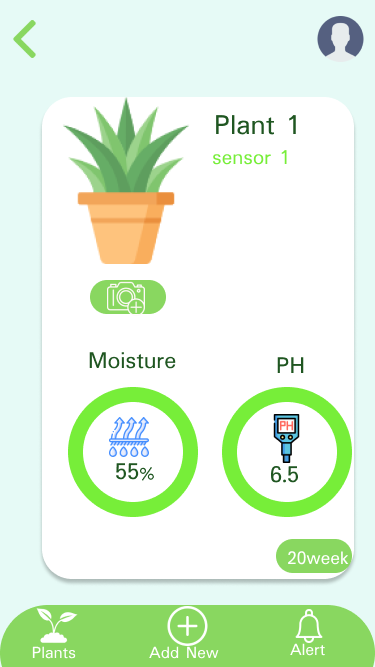


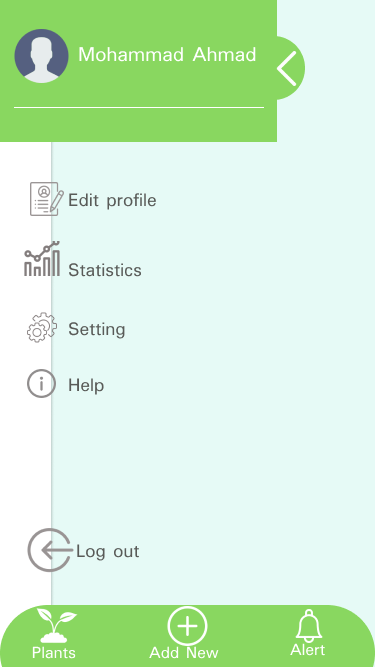


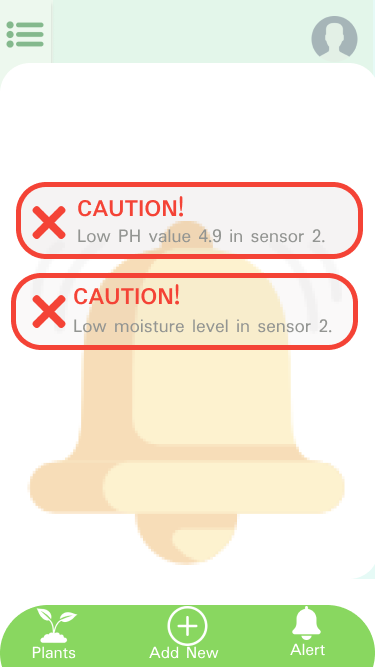
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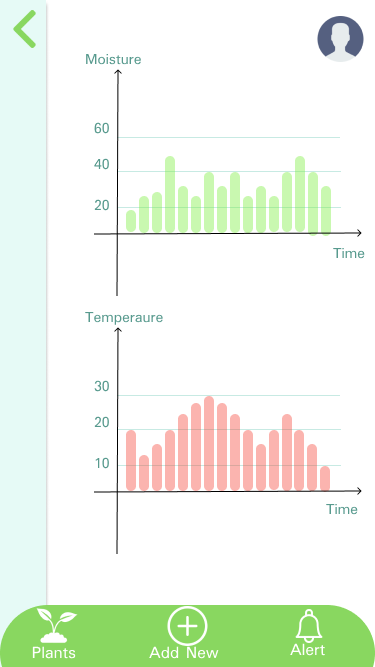
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