Wireframe Document

UGV (Unmanned Ground Vehicle) based Agriculture solution

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Arvind Chauhan
Hemanth Ganesh

Document Version Control

| Date Issued	Version	Description	Author
28th June 2021	1.0	First Version of Complete Wireframe Document	Arvind Chauhan Hemanth Ganesh
01st July 2021	2.0	First Version of Complete Wireframe Document	Arvind Chauhan Hemanth Ganesh

Contents

1. Homepage

Home page contains the welcome text and overview of the system. It consists of below options,
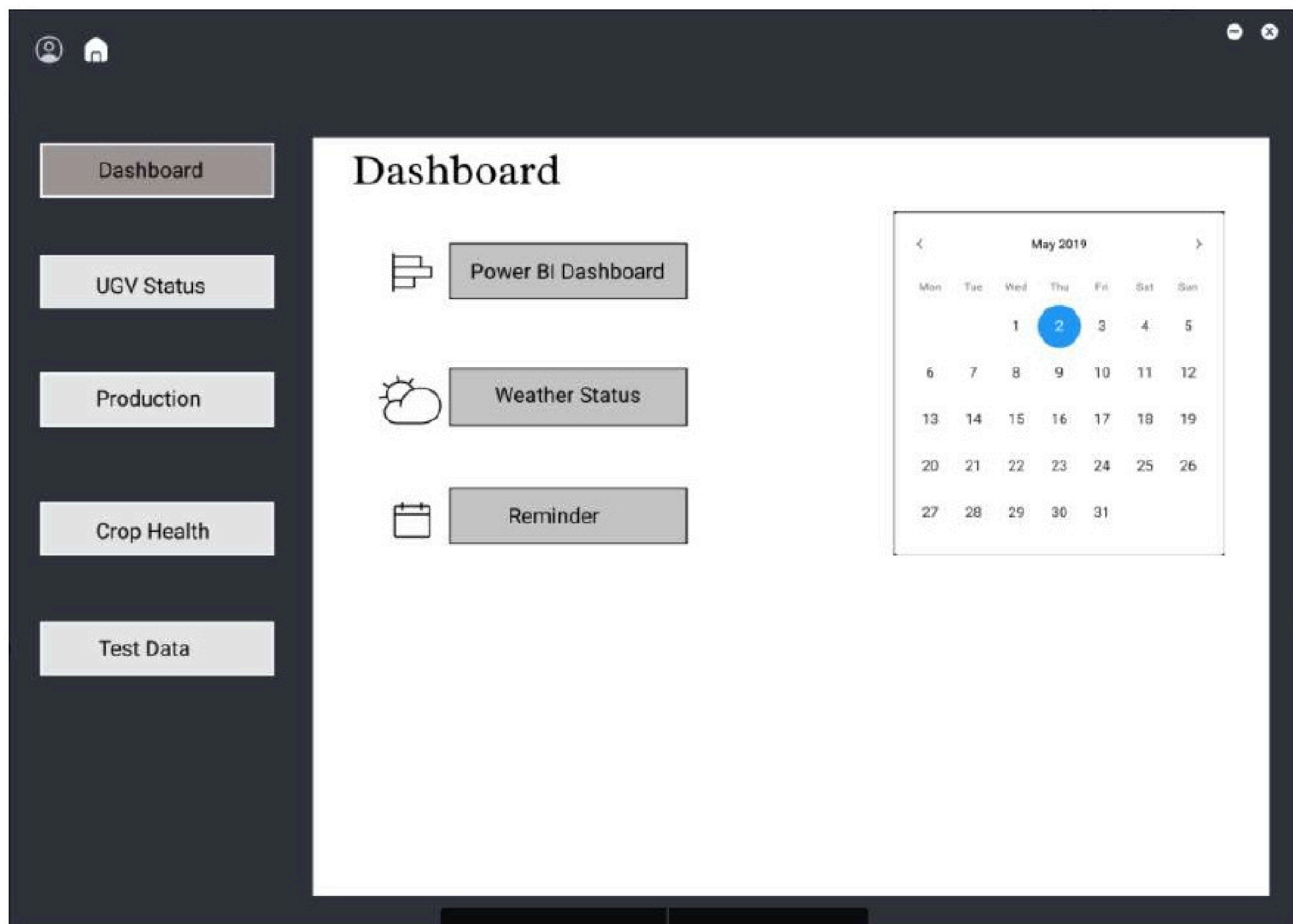
- Dashboard
- UGV Status
- Production
- Crop Health
- Test Data
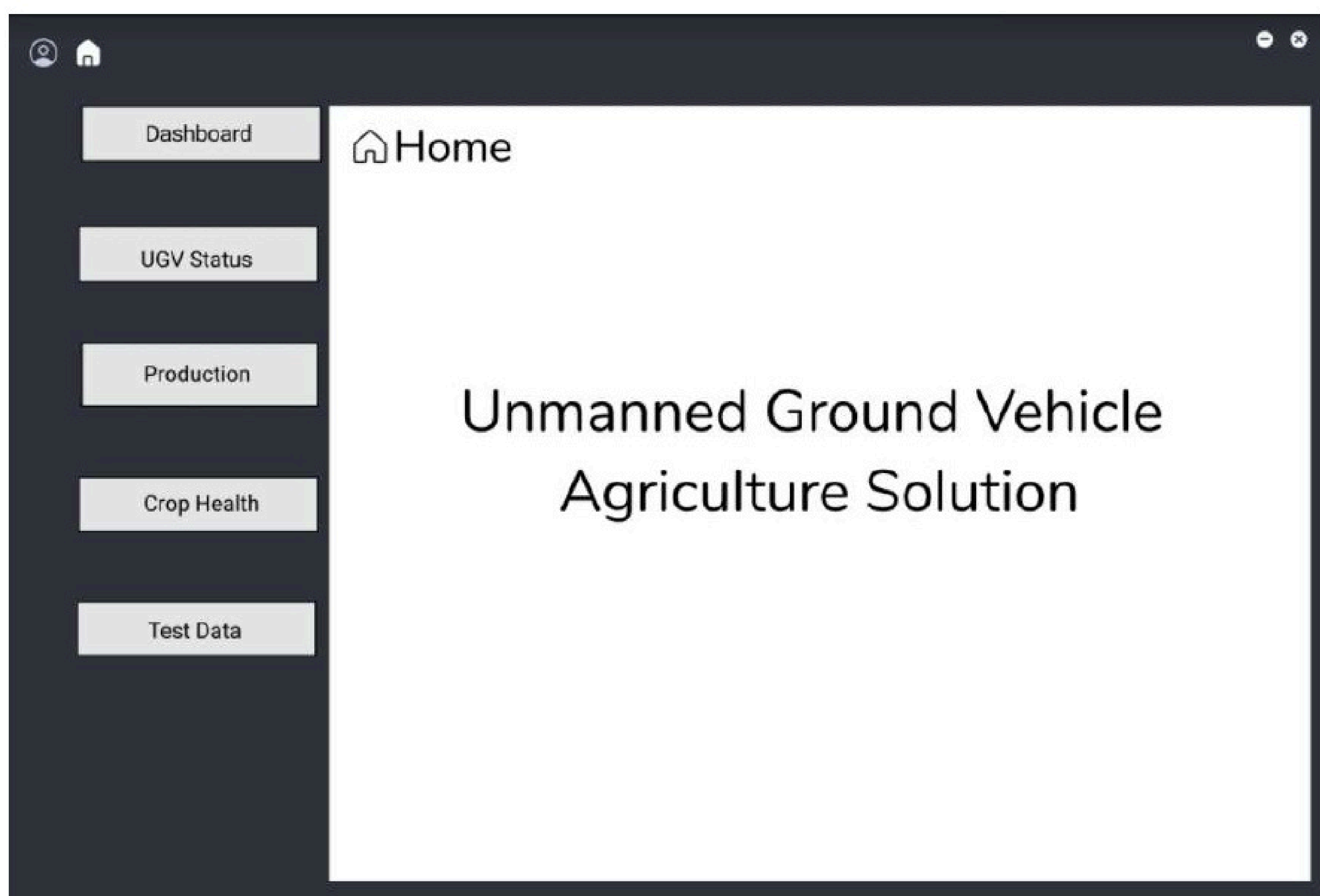
This is the first UI window when user starts the application and can visit all the fields according to his needs.
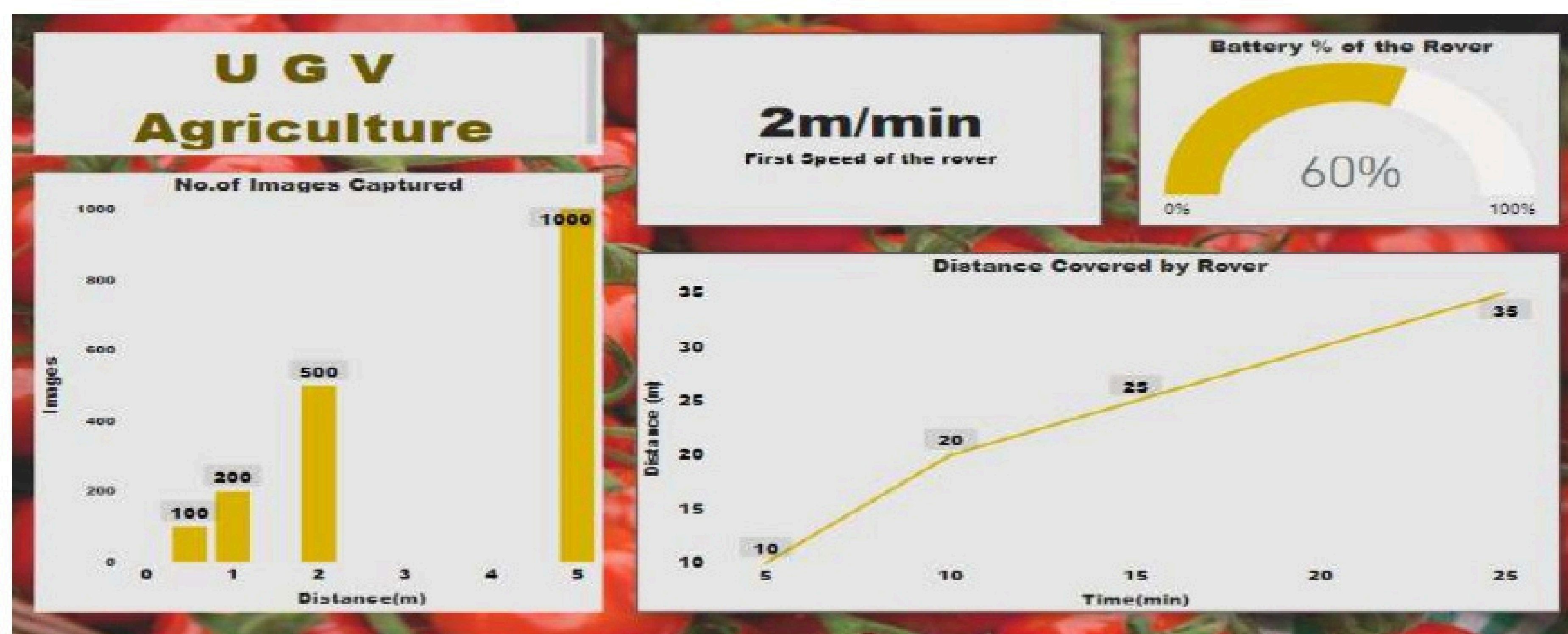
INCEPTION
For Future

2. Dashboard

In dashboard user will get access to Power BI dashboards and Weather Status to check the status of the agriculture field. Additionally, Farmer can set the reminders using this application.

2.1 Power BI Dashboard

Power BI option will take the user to the below window,

INCEPTION
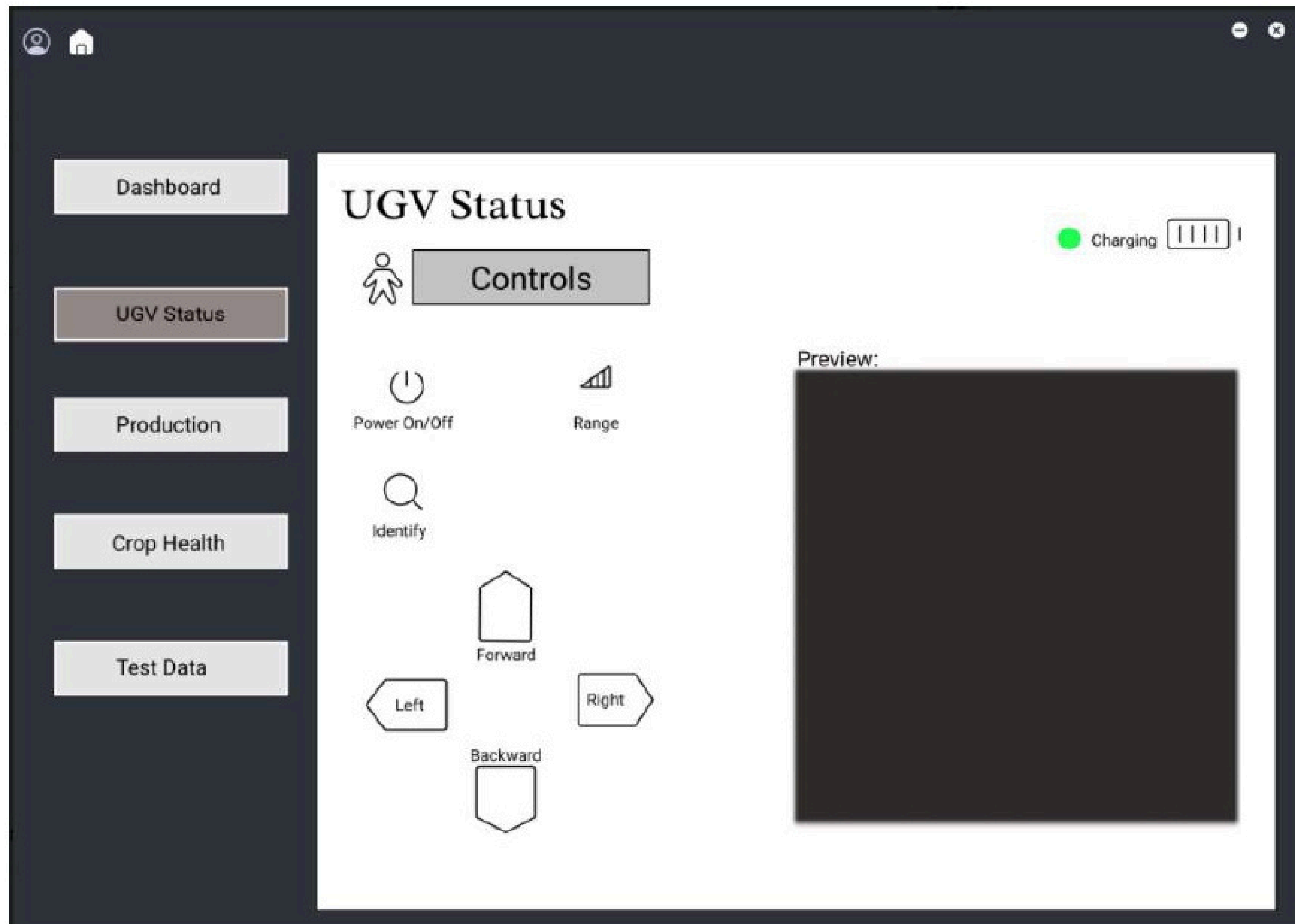For Future

3. Weather Status

Weather Status button shows the below window
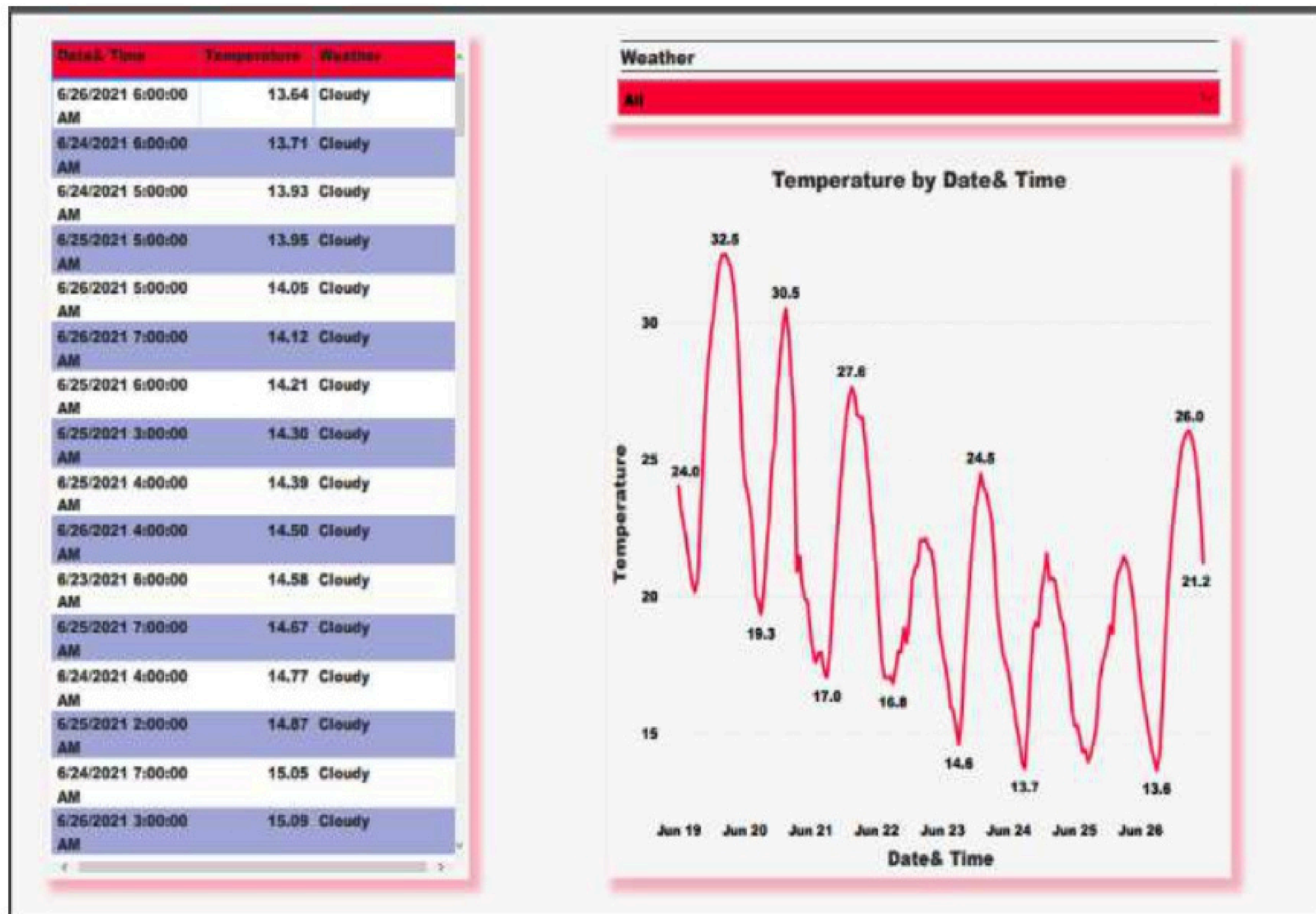
3.1 Reminder

Reminders is an option where user can set some upcoming tasks with the help of google calendar.
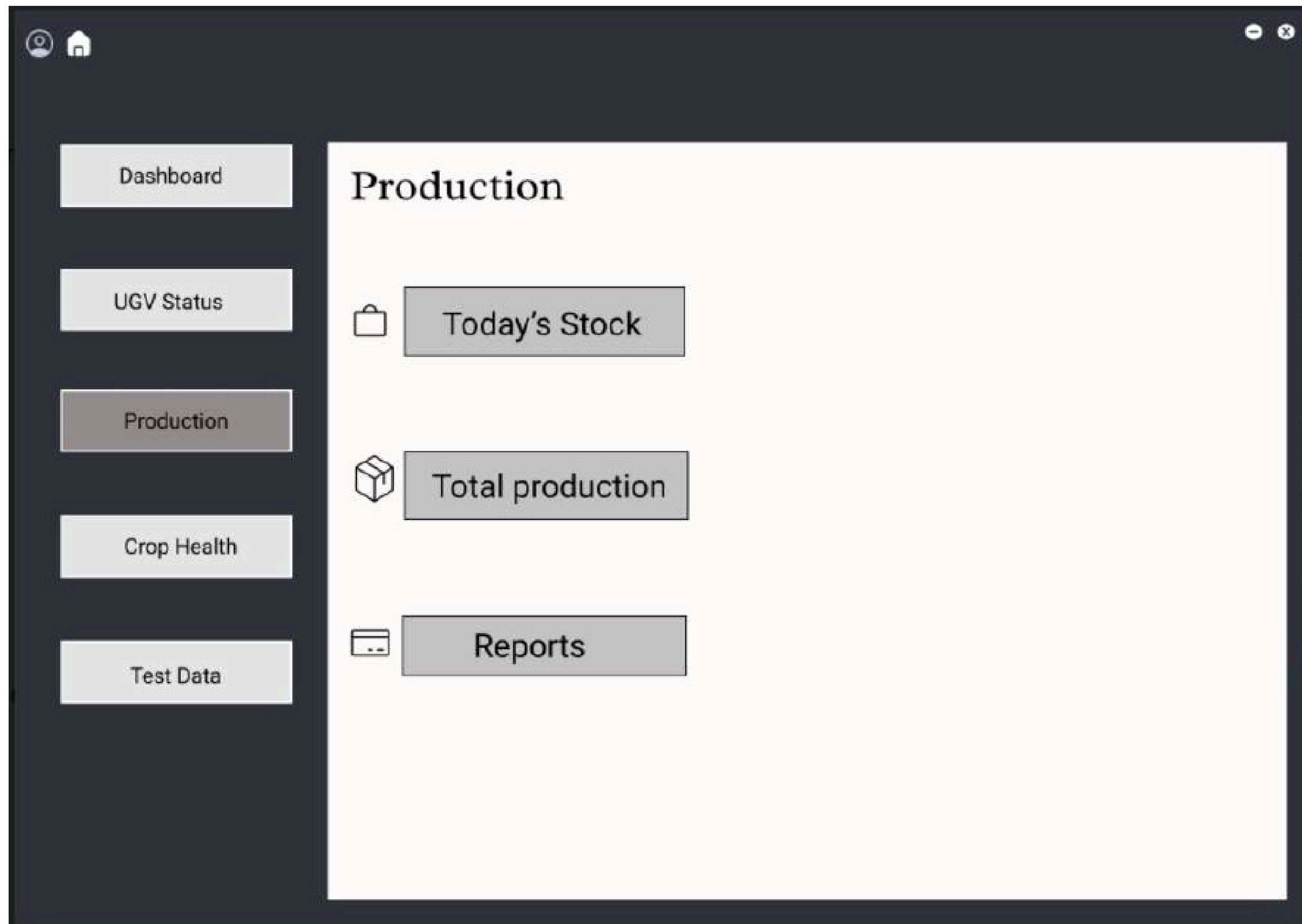
INCEPTION
For Future

4. UGV Status

In this window, User will get access the to his UGV where he can control manually. Also, user can see the status of battery.

5. Production

In this section, User will get overview of the Tomato Production on Daily basis and can generate reports on weekly and monthly basis.

5.1 Today's Stock

Today's stock will get the status of Tomato identified on particular date.

5.2 Total Production

Total production is responsible to maintain complete Tomato production data.

5.3 Reports

Reports will help user to pull the reports in specific date range.

6. Crop Health

Here, User can monitor the crop health with the help of UGV.

	Dashboard
	Crop Health
	Production
	Crop Health
	Test Data

Crop health

	Identified	Recovered	Spoiled
Late Blight	25	12	13
Yellow Curved	20	13	7
Septorial Leaf	18	18	0
Bacterial Spot	25	20	0

6.1 Bacterial Spot

The symptoms consist of numerous small, angular to irregular, water-soaked spots on the leaves and slightly raised to scabby spots on the fruits.

6.2 Late Blight

Late blight is especially damaging during cool, wet weather. Young leaf lesions are small and appear as dark, water-soaked spots.

6.3 Septoria Leaf Spot

This destructive disease of tomato foliage, petioles, and stems. Infection usually occurs on the lower leaves near the ground, after plants begin to set fruit. Numerous small, circular spots with dark borders surrounding a beige-coloured centre appear on the older leaves.

6.4 Yellow Curved

The symptoms include severe stunting, marked reduction in leaf size, upward cupping, chlorosis of leaf margins, mottling, flower abscission, and significant yield reduction.

6.4 Yellow Curved

7. Test Data

Here, User can test the image data of a diseased leaf and can identify the disease with the help of our deep learning model.