

IoT Based Crop Field Forecasting System

1. Real Time Display of Sensor Readings

The screenshot displays the 'Crop Monitoring Dashboard' interface. At the top, there is a dark navigation bar with 'Crop Forecasting' on the left and 'Dashboard', 'Table', 'Readings', and 'Reports' on the right. The main content area is titled 'Crop Monitoring Dashboard' with the subtitle 'Real-time sensor insights & scheduling'. It features two side-by-side panels. The left panel has an input field for 'Enter minutes' with a 'Save' button, and a 'Scheduled Readings' section showing 'Every 10 minutes'. The right panel is titled 'Farmer Info' and shows 'No Farmer selected' with 'Select Farmer' and 'Add Farmer' buttons. Below these panels is a large white box titled 'Reading in progress...' containing four green cards: 'Temperature 24.4°C', 'Humidity 62.9%', 'Soil Moisture 55%', and 'NPK 1.67 mg/kg'.

2. Farmer Enrollment

The screenshot shows the 'Add Farmer Information' form. It has a title 'Add Farmer Information' and three input fields: 'Farm name / Farmer', 'Address', and 'Contact Information'. At the bottom right, there are two buttons: 'Cancel' and 'Save'.

3. Record of crop forecast

CROP DATA FORECAST

Filter By Date Range
Select Date Range

CROP	TEMPERATURE	HUMIDITY	SOIL MOISTURE	NPK	RECORD DATE
Mung Beans	28.70	73.20	50.00	20.67	Apr 11, 2026 05:19:39
String Beans, Mung Beans	28.70	73.40	46.00	20.67	Apr 11, 2026 05:19:26
Mung Beans	28.70	73.40	55.00	20.67	Apr 11, 2026 05:19:24
Mung Beans	28.70	73.30	50.00	20.67	Apr 11, 2026 05:19:17
Mung Beans	28.70	73.40	52.00	21.00	Apr 11, 2026 05:19:02
Mung Beans	28.70	73.40	53.00	21.00	Apr 11, 2026 05:19:00
Mung Beans	28.70	73.40	52.00	21.00	Apr 11, 2026 05:18:59
Mung Beans	28.70	73.10	50.00	21.00	Apr 11, 2026 05:18:52
Mung Beans	28.70	73.40	53.00	21.00	Apr 11, 2026 05:18:51
String Beans, Mung Beans	28.70	73.40	52.00	21.00	Apr 11, 2026 05:18:49

4. Reports

Generate PDF Report

Preview

cc4e85f2-9ca5-484e-87f8-7287613e7623 1 / 15 100%

1

2

Sensor Reading Report

Date Range: 4/1/2026 - 4/30/2026

Farmer Information

Name: Sean Lemoran
Address: Buaranfor
Contact: 09757808950

Legend:

Average / Overall Row

Crop	Temperature (°C)	Humidity (%)	Soil Moisture	NPK
Mung Beans	28.70	73.20	50.00	20.67
String Beans, Mung Beans	28.70	73.40	46.00	20.67
Mung Beans	28.70	73.40	55.00	20.67
Mung Beans	28.70	73.30	50.00	20.67
Mung Beans	28.70	73.40	52.00	21.00
Mung Beans	28.70	73.40	53.00	21.00
Mung Beans	28.70	73.40	52.00	21.00
Mung Beans	28.70	73.10	50.00	21.00
Mung Beans	28.70	73.40	53.00	21.00
String Beans, Mung Beans	28.70	73.40	52.00	21.00
String Beans, Mung Beans	28.70	73.30	47.00	21.00
Mung Beans	28.70	73.30	56.00	21.00

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Generate PDF Report

Preview

cc4e85f2-9ca5-484e-87f8-7287613e7623 6 / 15 100%

4

5

6

String Beans, Mung Beans	28.70	73.00	60.00	30.67
Eggplant, Okra, Ampalaya, String Beans	28.70	73.00	56.00	30.67
String Beans, Mung Beans	28.70	72.90	61.00	30.00
Eggplant, Okra, Ampalaya, String Beans	28.70	72.90	57.00	30.00
Mung Beans	28.70	72.70	63.00	29.00
String Beans, Mung Beans	28.70	72.70	52.00	29.67
Mung Beans	28.70	73.10	55.00	29.67
Mung Beans	28.70	72.90	48.00	29.67
String Beans, Mung Beans	28.70	72.90	51.00	29.67
String Beans, Mung Beans	28.70	72.90	56.00	29.67
String Beans, Mung Beans	28.70	72.90	58.00	29.67
String Beans, Mung Beans	28.70	72.80	55.00	29.67
String Beans, Mung Beans	28.70	72.80	55.00	29.67
String Beans, Mung Beans	28.70	72.80	55.00	29.67
String Beans, Mung Beans	28.70	73.00	55.00	29.67
String Beans, Mung Beans	28.70	72.80	53.00	29.67
Most suitable crops: Mung Beans	28.70	73.88	53.79	25.32

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5. Hardware

