

Registration Form



Smart Irrigation System

Please sign in to continue

Register

Email

Full Name

Phone Number


e.g., +8801XXXXXXXXX

Password

Confirm Password

Create Account

OR

 Sign in with Google

Already have an account? [Sign In](#)

Login Page



Smart Irrigation System

Please sign in to continue


Login

Email

Password

Sign In

OR

 Sign in with Google

Forgot password?

Phone number

[Send reset code](#)


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


Device Connection & Location Settings



Smart Irrigation System

AI-Powered Water Management

 Aong Cho

 Logout

Dashboard

Settings

Device Connection

Enter NodeMCU IP Address (e.g., 192.168.1.123)

Connect

☒ Connected ☐ Disconnected

Enter IP from Serial Monitor. You can test connectivity by visiting the IP address in your browser.

Location Settings

Default Region applied from your profile.

Country

Bangladesh



Division / State

Chattogram



Zilla / County

Rangamati



Upazila / City

Kaptai



Crop Type

e.g., Rice, Wheat, Maize, Tomato

AI will tailor irrigation decisions based on this crop.

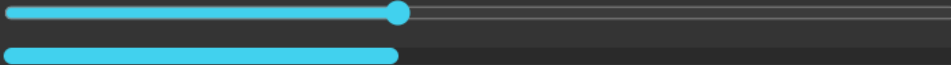
Weather Forecast & Environmental Dashboard

Soil Moisture

Demo



41.3 %



Drag to simulate moisture

Temperature



27.4°C

Live from OpenWeather

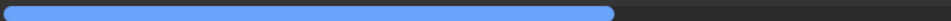


Humidity



64 %

Live from OpenWeather

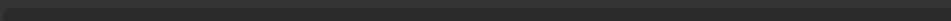


Rain Probability



0 %

Live from OpenWeather



Weather Forecast



Kaptai, Chittagong Division, BD

22.50, 92.22

Live · OpenWeather



27.4°C



64%



Updated: 10/11/25, 10:25



Today

10/11/25 · Clear

27.4°C (now)

64% Hum · 0% Rain



Tomorrow

11/11/25 · Clear

22°C

75% Hum · 0% Rain



Wednesday

12/11/25 · Clear

21.5°C

75% Hum · 0% Rain



Thursday

13/11/25 · Clear

21.8°C

75% Hum · 0% Rain



Friday

14/11/25 · Clear

21.9°C

75% Hum · 0% Rain

AI Agronomist Insights



AI Agronomist Insights

Auto Refresh



Refresh

Crop: Unspecified

Current Soil Moisture (live)

36.3%

Optimal

0%

50%

100%

Recommendation

Hold

For the crop, holding irrigation is recommended because current soil moisture levels are adequate, and no rainfall is anticipated.

The current soil moisture is within the optimal range for the crop type, and no rain is expected in the near future.

Confidence: 95%

Key Factors

- ✓ Soil moisture is 45%, which falls comfortably within the general ideal range of 40-60%.
- ✓ There is a 0% chance of rain today and tomorrow, indicating no natural replenishment is imminent.
- ✓ Current environmental conditions (27.4°C, 64% humidity) suggest moderate evaporative demand, but current soil moisture is sufficient.

Control Panel & Sensor Data History

Control Panel

Manual Mode



Water Pump



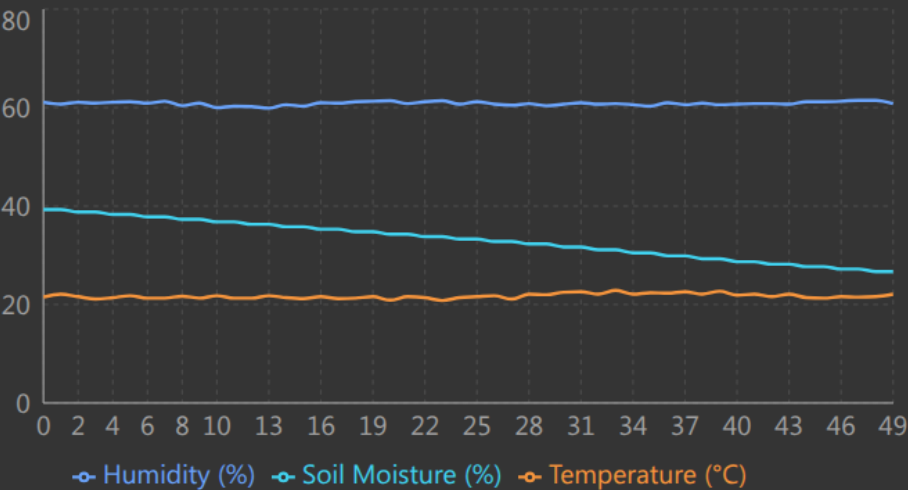
AI Mode

Follow AI Decisions

Pump turns on/off automatically based on AI







Sensor Data History



Activity Log

Activity Log

Clear Activity Log

Status	Action	Details	Time
	Pump Automatically Turned OFF by Device	Device reported new status.	10:34:24 AM
	Pump Manually Turned OFF	User override command sent to device.	10:34:22 AM
	Pump Automatically Turned ON by Device	Device reported new status.	10:34:19 AM
	Pump Automatically Turned ON by Device	Device reported new status.	10:34:18 AM

MongoDB Atlas Database - smart_irrigation.users

+ Create Database

Q Search Namespaces

- ▶ sample_mflix
- ▼ smart_irrigation
 - activitylogs
 - users

smart_irrigation.users **CLUSTERED**

STORAGE SIZE: 36KB LOGICAL DATA SIZE: 404B TOTAL DOCUMENTS: 1 INDEXES TOTAL SIZE: 72KB

Find Indexes Schema Anti-Patterns **0** Aggregation Search Indexes

[Generate queries from natural language in Compass](#)

INSERT DOCUMENT

Filter [🔗](#)

Type a query: { field: 'value' }

Reset

Apply

Options ▶

QUERY RESULTS: 1-1 OF 1

```
_id: ObjectId('6911534204a9ceedfd12528d')
email: "aongchouser@gmail.com"
passwordHash: "$2a$10$dnuAhL41a90HrKs1T3Gm5.ZCTBlYpQLosNuR2CXxF0YyWXVieRil6"
name: "Aong Cho"
phone: "+8801876660187"
▶ roles: Array (1)
  createdAt: 2025-11-10T02:51:46.271+00:00
  updatedAt: 2025-11-10T03:40:39.140+00:00
  __v: 0
▶ defaultRegion: Object
  resetCode: "258652"
  resetExpires: 2025-11-10T03:50:39.127+00:00
```