

Intelligent ^{Web App} Irrigation and ^{Notifies} Management System

- ① ~~Farm~~ Role ——— (Dynamic Role System)
- ① Super Admin → All Access
 - ② Admin → All Access without delete
 - ③ UAO → Sub district
 - ④ SAAO → Block Access
 - ⑤ Farmer → Personal Access (User)

BE

- ② Registration ———
- ① Admin Registration by SA
 - ② UAO Reg by SA
 - ③ SAAO Reg by SA
 - ④ Farmer Reg Own with help of SAAO

- ③ Dashboard (Dynamic) ———
- ① Super Admin
 - ② Admin
 - ③ UAO

(IV) SAAO

(V) Farmer

According to their role, dashboard will be designed accordingly.

(4) Soil Moisture Visualisation — (X) Graph
 (A) Tabular
 (Date Range)

Query - (I) Region

AD

(II) Hotspot

(III) AEZ

(IV) NAP

(V) Division

DD

→ (VI) District

VAO/AEO → (VII) Sub District (Upozilla)

(VIII) Union

SAAO → (IX) Block

(X) Village

(XI) Device ID

(XII) ~~Field~~ Name

(X) Map Visualisation
 (Later)

NB: (I) Single Page
 can be accomo-
 -dated for all
 parameters
 visualisation
 or,

(II) separate
 page can be
 accomodated
 as well

Date :

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat

(Upozilla) — API

⑥ Weather Forecast

Query

① Division

② District

⑤ Crop Water Requirement

③ Upozilla

(Field specific) ~~④~~

① Serial

② ~~Location~~ Field

③ Device ID

④ Date

⑤ Requirement (mm)

⑦ Archive

⑧ Pump control

⑨ Irrigation status

① Serial

(ii) ~~Gen ID~~ Field Name

(iii) ~~Field~~ Date

(iv) Amount

(v) status

↳ Forecast + Amount

↳ Pump + Amount

Notification

(i) Water Requirement Information sharing related

(ii) 30 min - 60 min - Manual On

(iii) After 60 min - Automatic On

Auto
off

↳ Due not to start the pump. Auto
Pump
~~Notification~~ has been started auto-
-matically.

↳ Due to ^{successfull} bullbill the water require-
-ment, pump has been stopped automatically.

⑩ User List

⑪ SAAO List

⑫ UAO List

⑬ Admin List

⑭ Feedback

⑮ About

① Nutrient Status

- Nitrogen
- Phosphorus
- Potassium
- Soil Temperature
- pH