

JAMBU *APP*



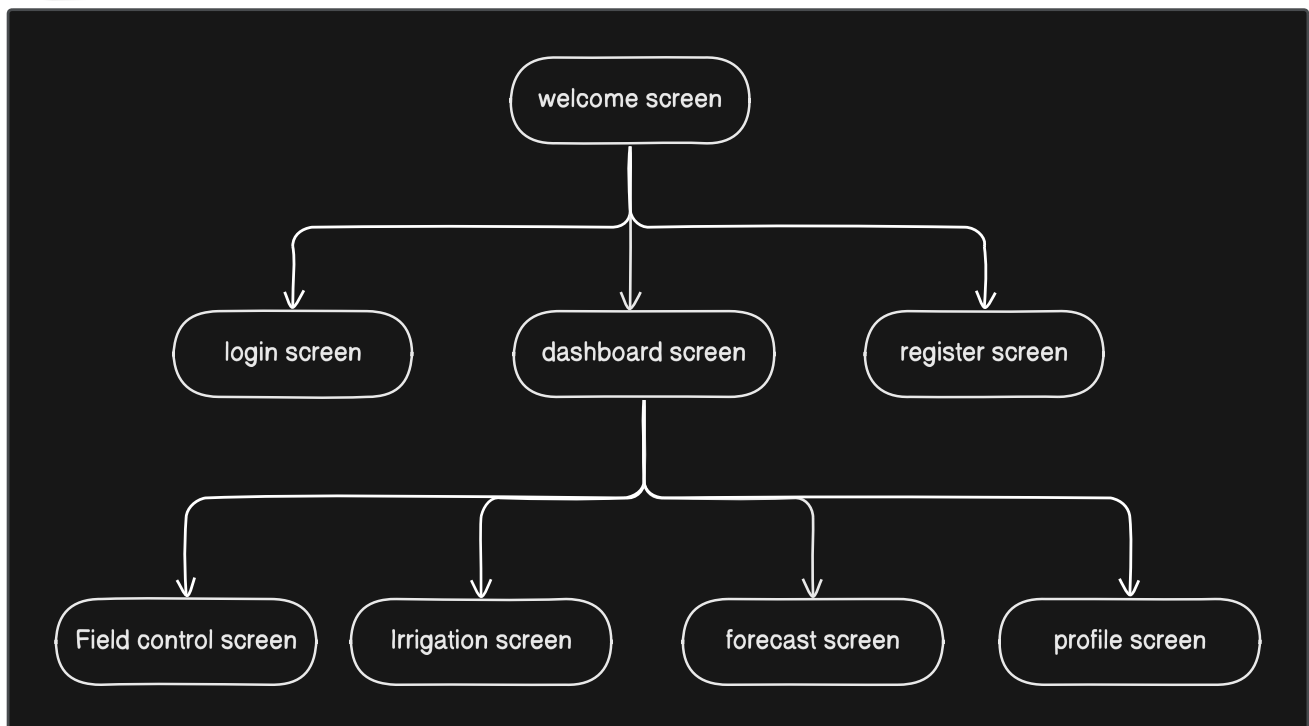
ANDROID APP TO
PROVIDE USER
INTERFACE TO CONTROL
IRRIGATION HARDWARE



SUBJECT: APP DOCUMENTATION

App Navigation

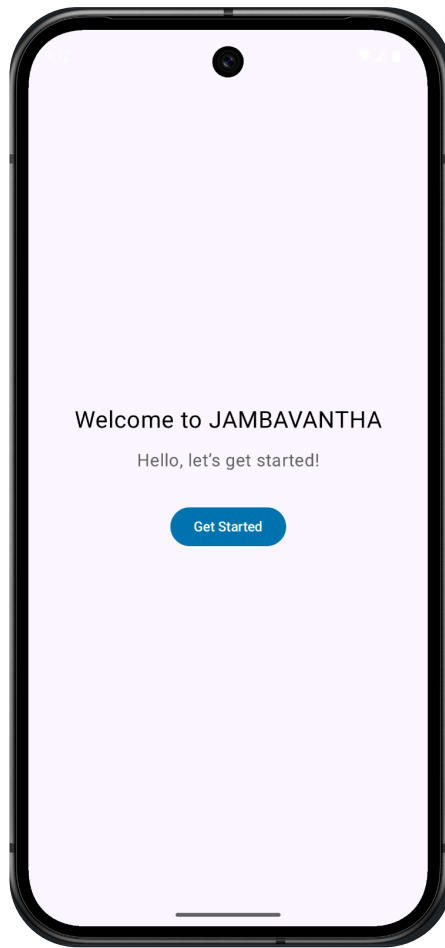
APP NAVIGATION



Screens:

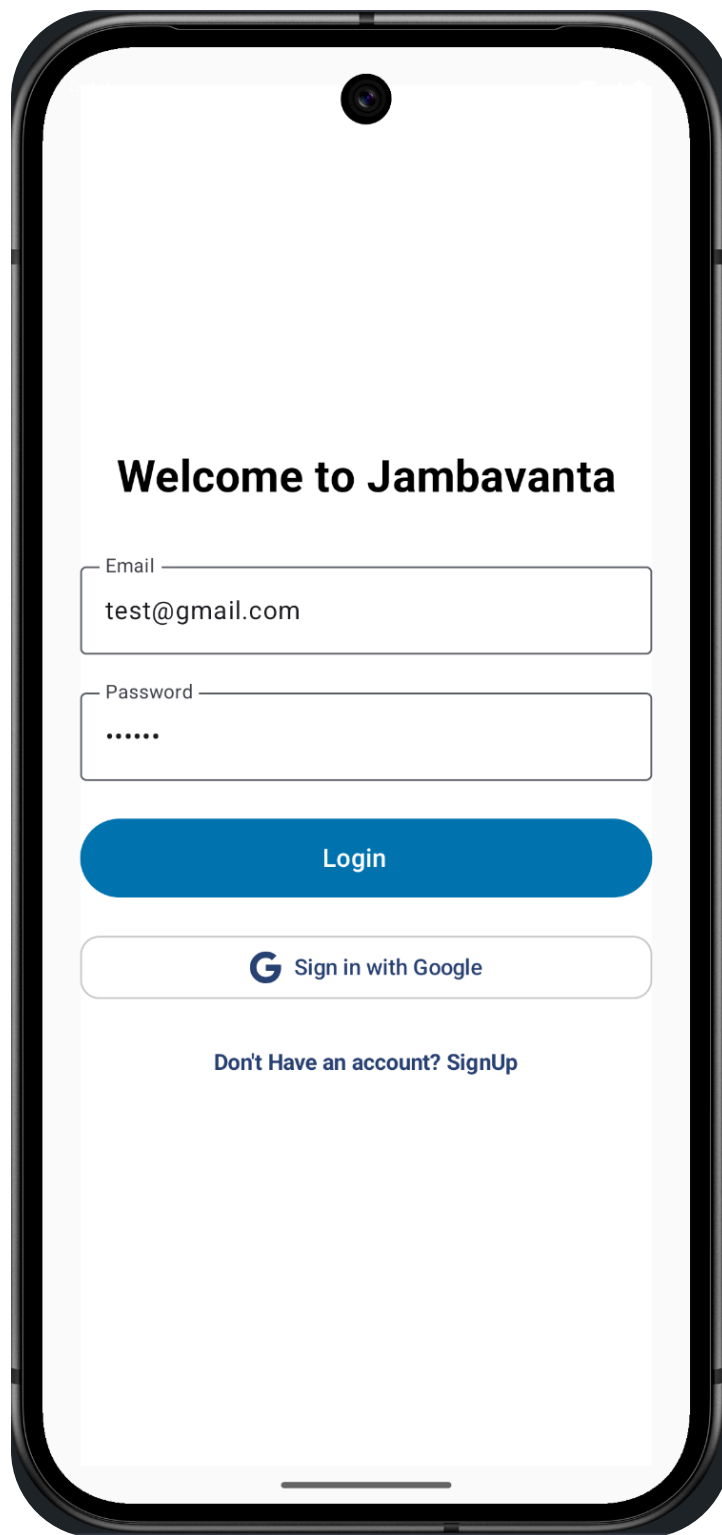
- Welcome Screen

This is the first page that the user see which greets the user the user is navigated to login page if previous session is not found or to the dashboard page if previous session is found



- **Login Screen**

It allows the user to login to there account using email and password or google and would navigate to register page if the the signup button is clicked



- **Register Screen**

This is Registration page for new user to login and make account on our platform , they can sign up using email and google

Register

First Name

Last Name

Email

Phone Number


Birth Date

Password

Confirm Password

Register

[Have an account? Login](#)

 Sign up with Google

- **Dashboard Screen**

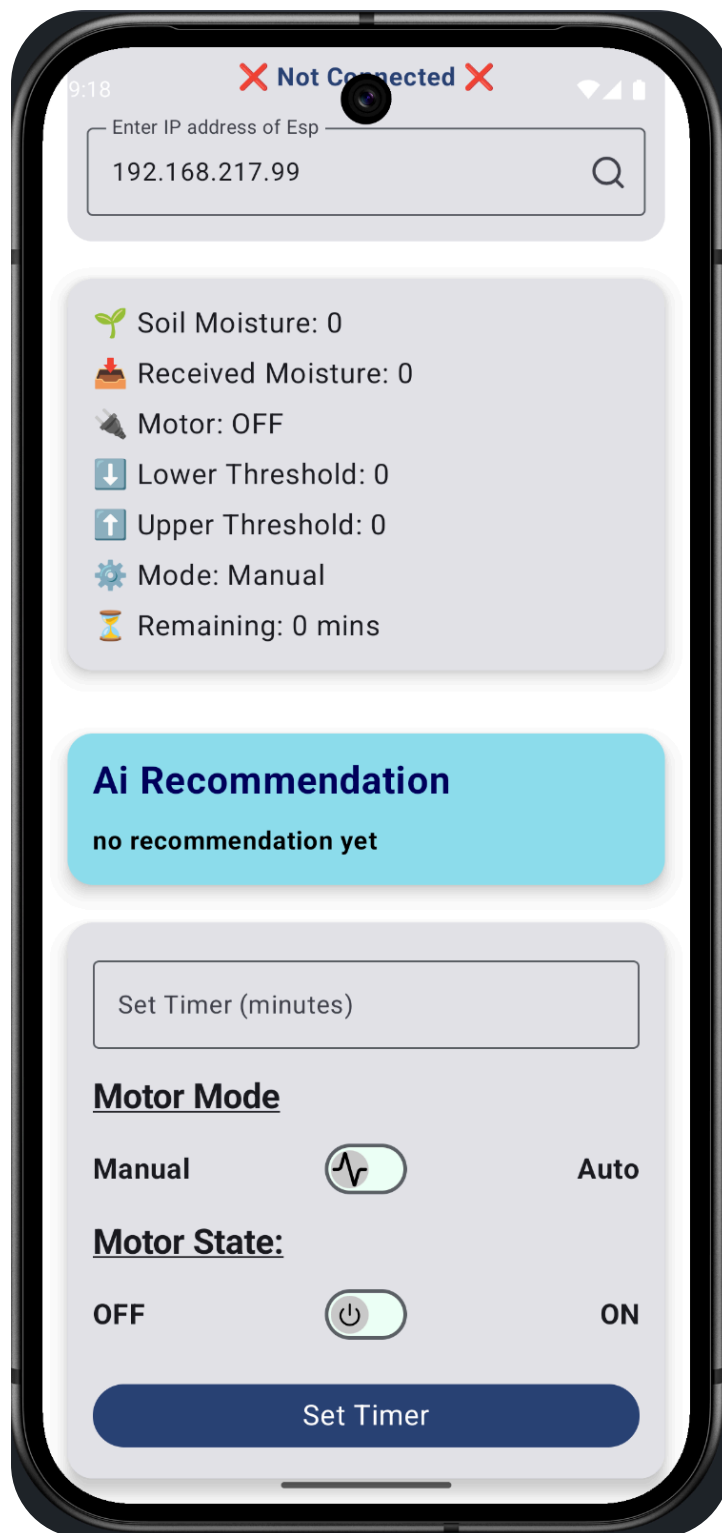
This is the Dashboard page which provides buttons to navigate to all different screens



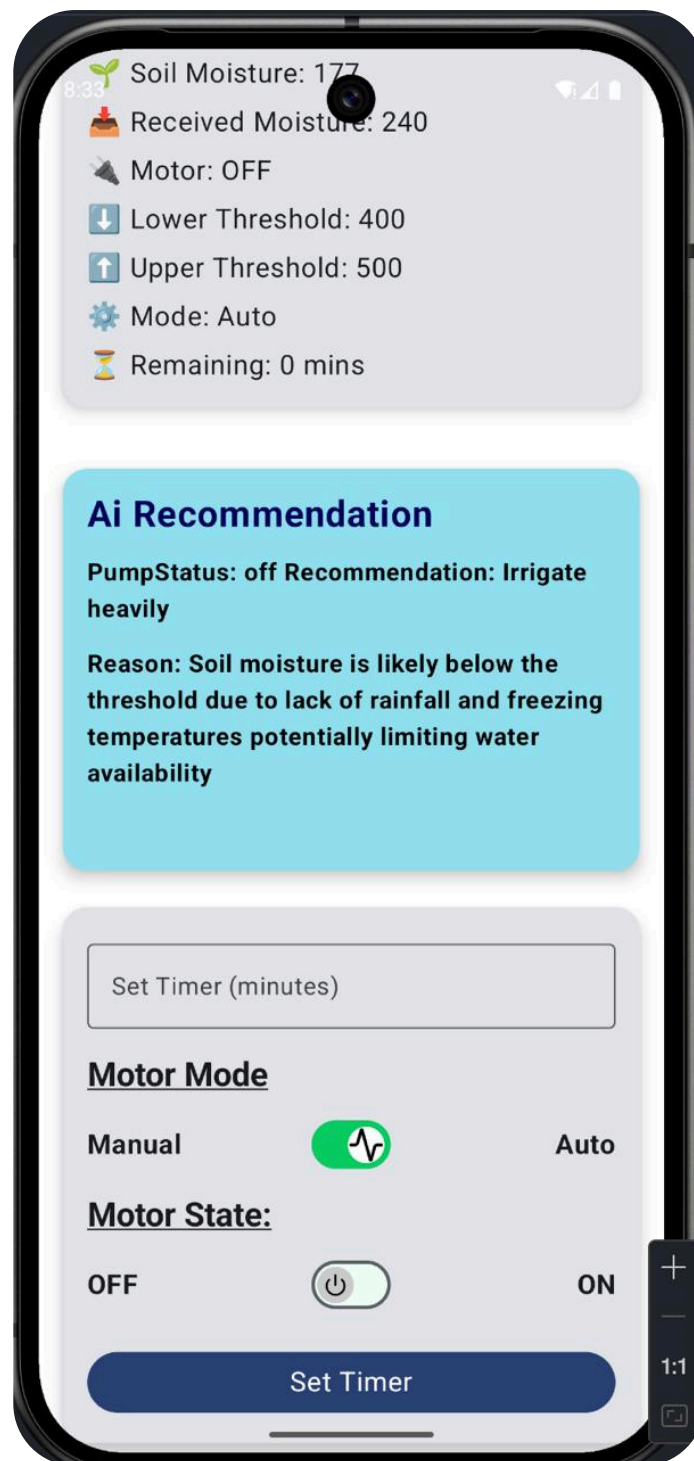
- **Field Control Screen**

This is the control screen from where the user can control the hardware by connecting to it through its ip address (which would later be changed with directly connecting through wifi).

One of the Important part of this page is the Ai recommendation for irrigation the hardware can directly suggest if the motor should be on to irrigation or not when in Auto mode



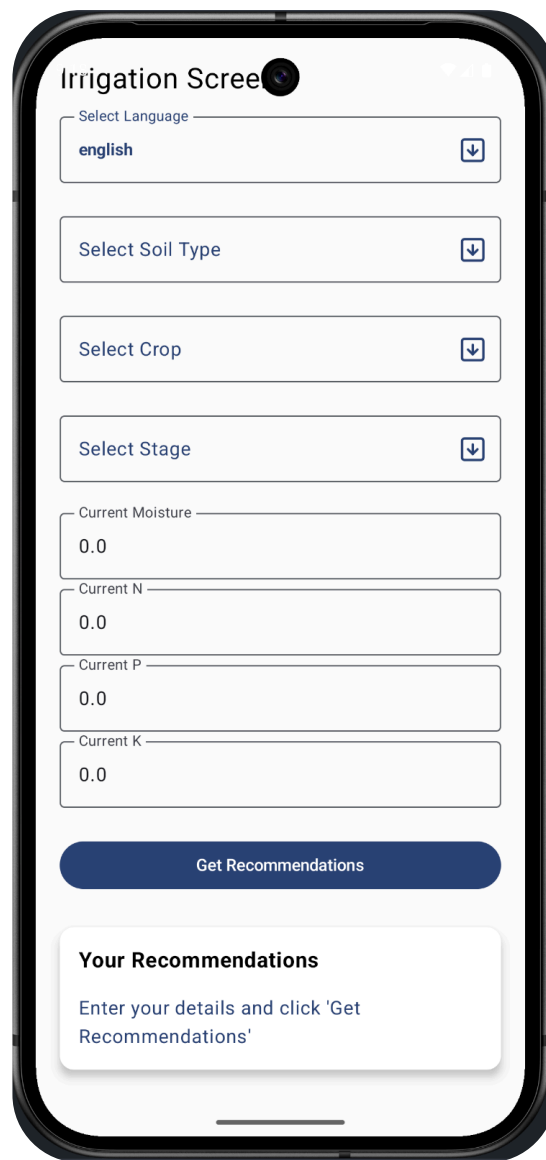
Screen: when not connected with device



Screen: when connected with device

- Irrigation Screen

This screen allows the user to get recommendation for your field according to the next 5 day weather forecast according to there soil , crop type and which stage it is in



The image shows a mobile application interface titled "Irrigation Screenshot". It features a series of input fields for user configuration. The first four are dropdown menus labeled "Select Language" (with "english" selected), "Select Soil Type", "Select Crop", and "Select Stage". Below these are four text input fields for "Current Moisture", "Current N", "Current P", and "Current K", each containing the value "0.0". A dark blue button labeled "Get Recommendations" is positioned below the input fields. At the bottom, a white box titled "Your Recommendations" contains the text: "Enter your details and click 'Get Recommendations'".

Irrigation Screenshot

Select Language
english

Select Soil Type

Select Crop

Select Stage

Current Moisture
0.0

Current N
0.0

Current P
0.0

Current K
0.0

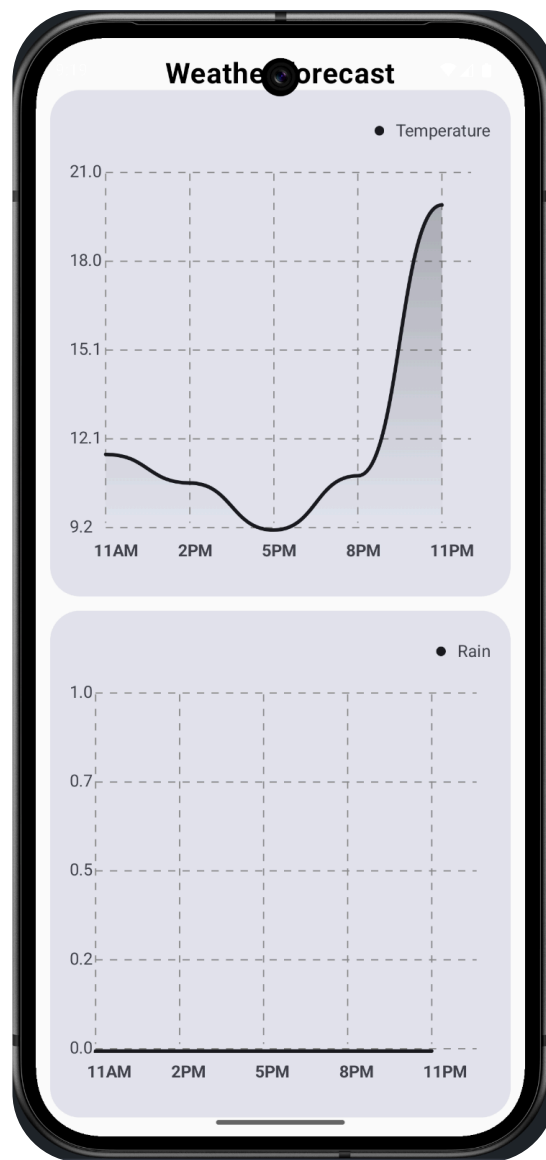
Get Recommendations

Your Recommendations

Enter your details and click 'Get Recommendations'

- **Forecast Screen**

This is the page to show the next 12hour weather forecast about the temperature and rain fall



Technical Details

Tech Stack used:

- Jetpack Compose with kotlin
- Retrofit for http handling
- Dagger hilt for Dependency injection
- Room database for local storage
- AAY-chart for charts