

## Sprint – 3

### Mobile App Creation

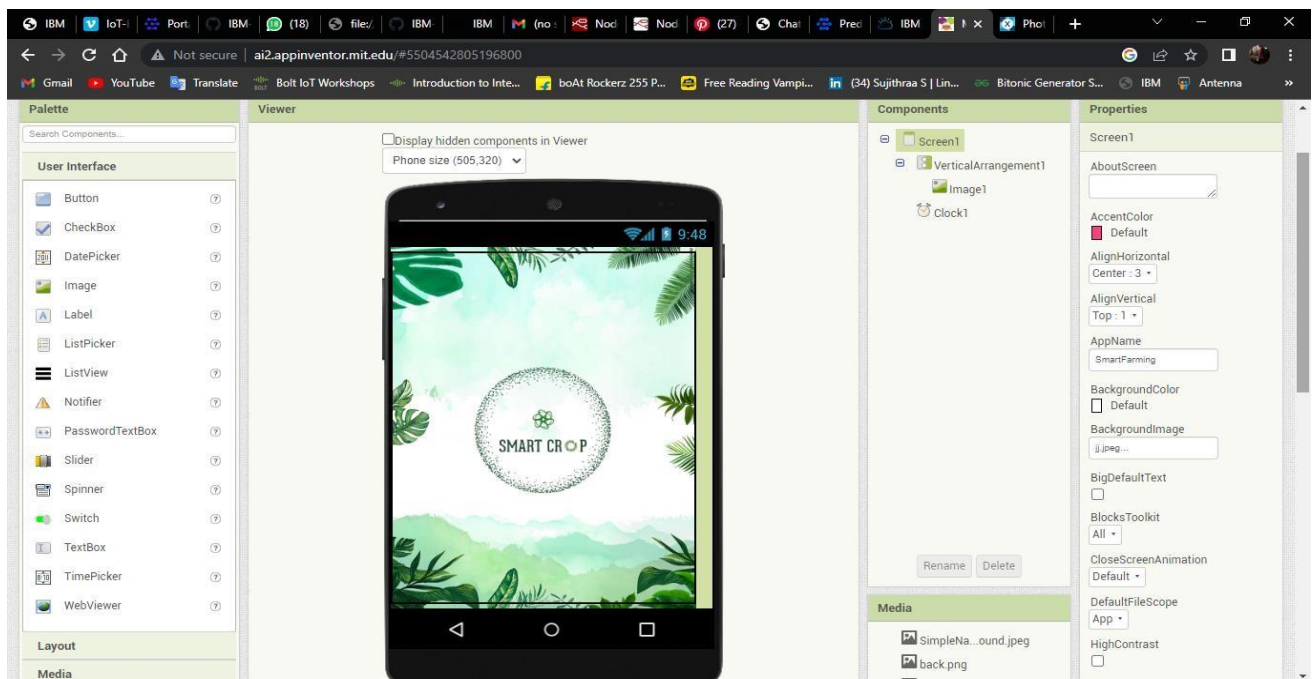
Date	17 November 2022
Team ID	PNT2022TMID30551
Project Name	IOT- BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

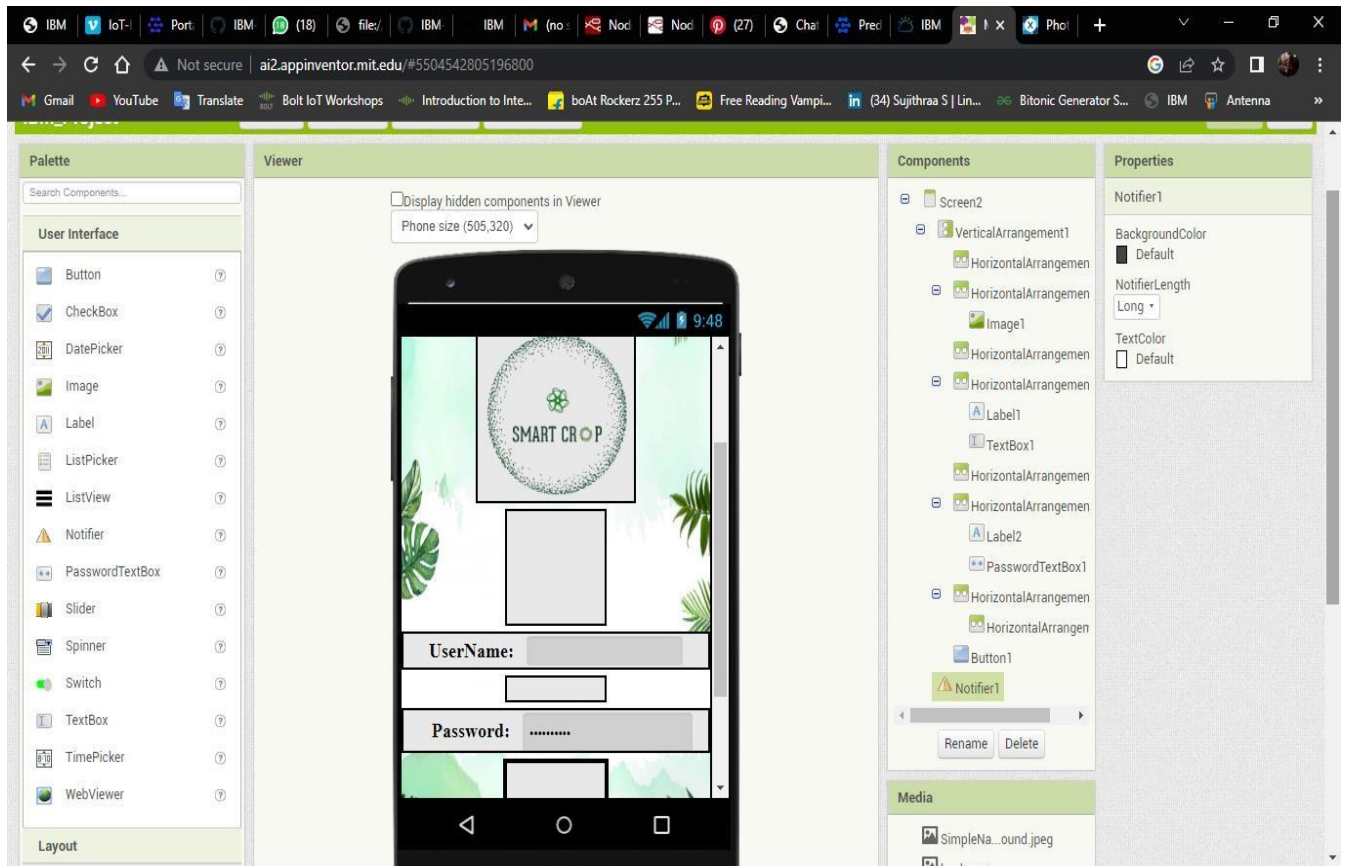
### Description:

According to our sprint-3 planning we've developed the mobile application to monitor the field and we've linked it with the python coding. This app consists of login credentials in which only the registered user can access. After logging in, the value of Temperature, Humidity, Moisture and Animal Invasion will be displayed in the mobile screen. We can also control the sprinkler using the controller.

Controller using mobile application for monitoring the field will be a more user friendly way for the farmers. This will reduce the work load of the farmers. The values generated from the python using random will be sent to the mobile application through the node-red.

### MIT App Inventor:





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IBM\_Project Screen3 Add Screen Remove Screen Publish to Gallery Designer Blocks

Blocks

- Built-in
  - Control
  - Logic
  - Math
  - Text
  - Lists
  - Dictionaries
  - Colors
  - Variables
  - Procedures
- Screen3
  - VerticalArrangement1
    - Image1
  - HorizontalArrangen
  - HorizontalArrangen
    - Label1
  - HorizontalArrangen

Rename Delete

Viewer

when Clock1.Timer

do

- set Web1.Url to "https://node-red-qimqt-2022-11-10.au-syd.mybluem..."
- call Web1.Get

when Web1.GoForText

url responseCode responseType responseContent

do

- set Label3.Text to look up in pairs key "temp" pairs call Web1.JsonTextDecode jsonText get responseContent
- notFound "not found"
- set Label5.Text to look up in pairs key "Humid" pairs call Web1.JsonTextDecode jsonText get responseContent
- notFound "not found"
- set Label8.Text to look up in pairs key "Humid" pairs call Web1.JsonTextDecode jsonText get responseContent
- notFound "not found"

Show Warnings

when Button2.Click



**Mobile App:**

7:42 PM 10.3KB/s



### IoT-based agriculture system

Temperature: 81

Humidity: 44

Moisture: 44

Animal Attack: No

### Controller

Sprinkler ON

Sprinkler OFF