

# PROJECT DEVELOPMENT PHASE

## SPRINT-3

Date	15 November 2022
Team ID	PNT2022TMID35368
Project Name	Smart Farmer-IoT Enabled smart farming application
Maximum Marks	8 Marks

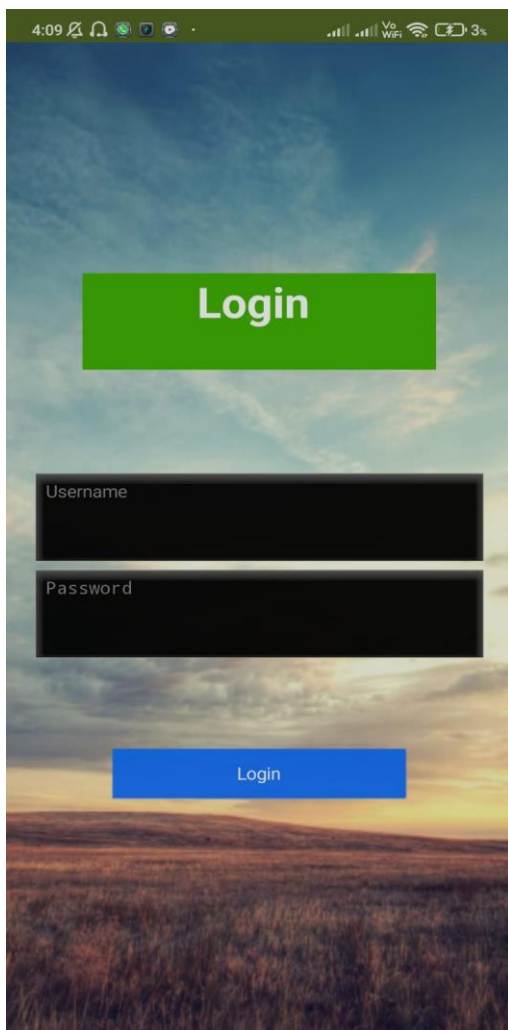
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Registration and login (Mobile)	USN-8	As a user, I can also login using mobile application	10	High	Deepika, Yogeshwari
Sprint-3	Dashboard (Mobile)	USN-9	As a user, I can also view dashboard and control motors using mobile application	10	High	Deepika, Yogeshwari

### Introduction:-

MIT App Inventor is used to create a mobile application from values available in Node-RED service

### Login:-

Login page is created in MIT App Inventor where username and password is verified with values stored in Node-RED credentials page.



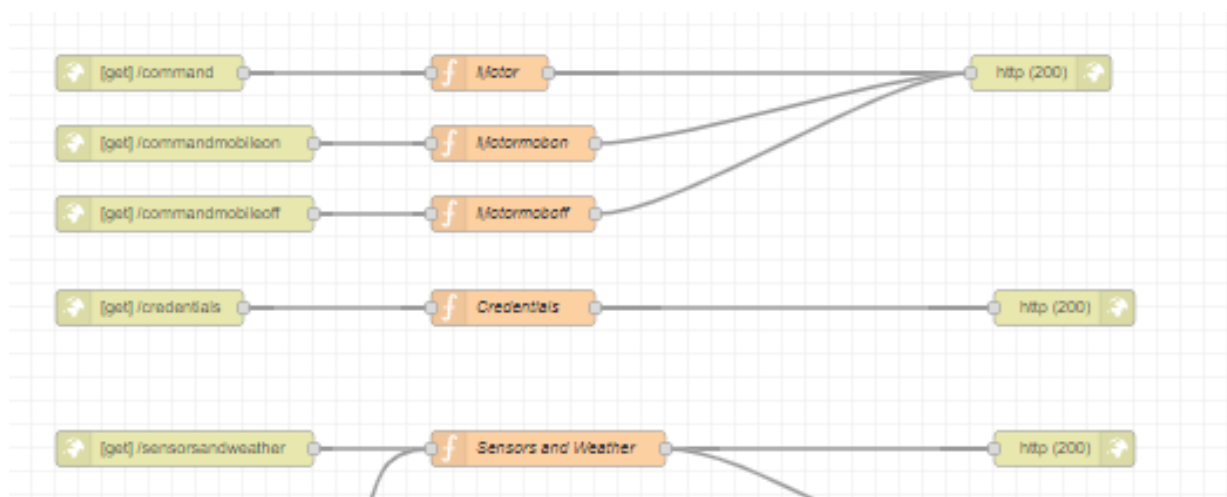
### Dashboard:-

Dashboard is created in MIT App Inventor with sensor and weather API values obtained from Node-RED sensors and weather page and motor is controlled using 2 separate additional command pages in Node-RED.

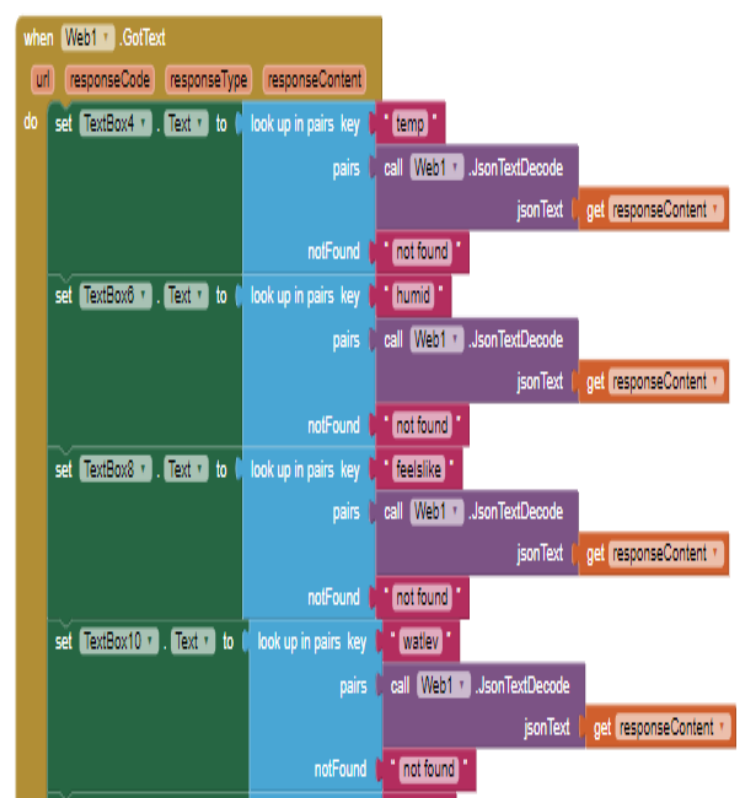
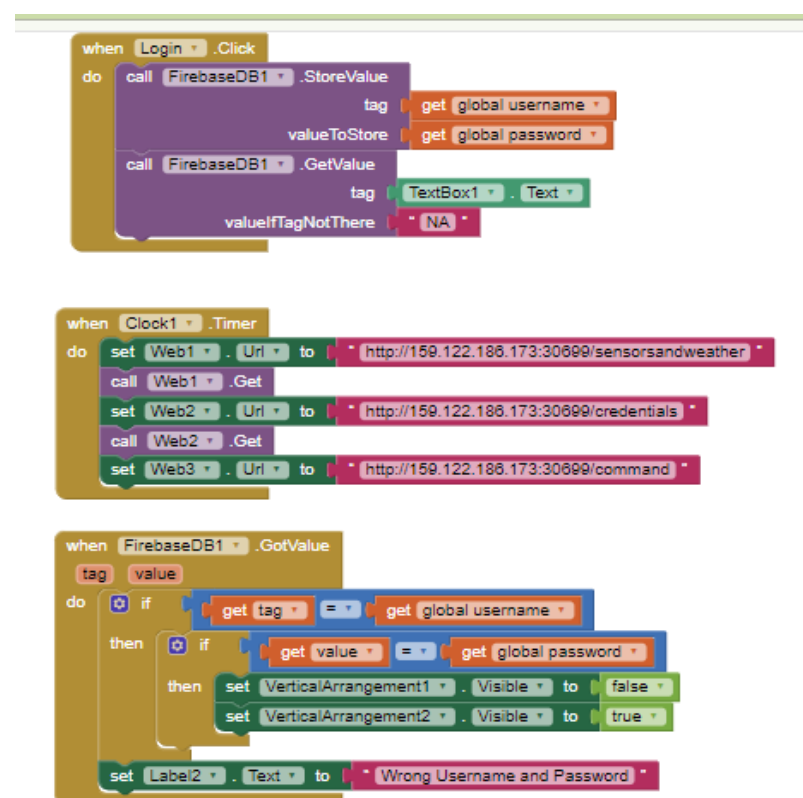
Sensor Values	
Temperature	24
Humidity	40
Feels Like	23.5
Water Level	1
pH Level	7.8
Gas Particles	53
Soil Moisture	14.76
Nitrogen	40
Phosphorous	469
Potassium	484
Open Weather API Values	
Longitude	80.1397
Latitude	12.948
City	Pallāvaram
Country	IN
Weather	Mist

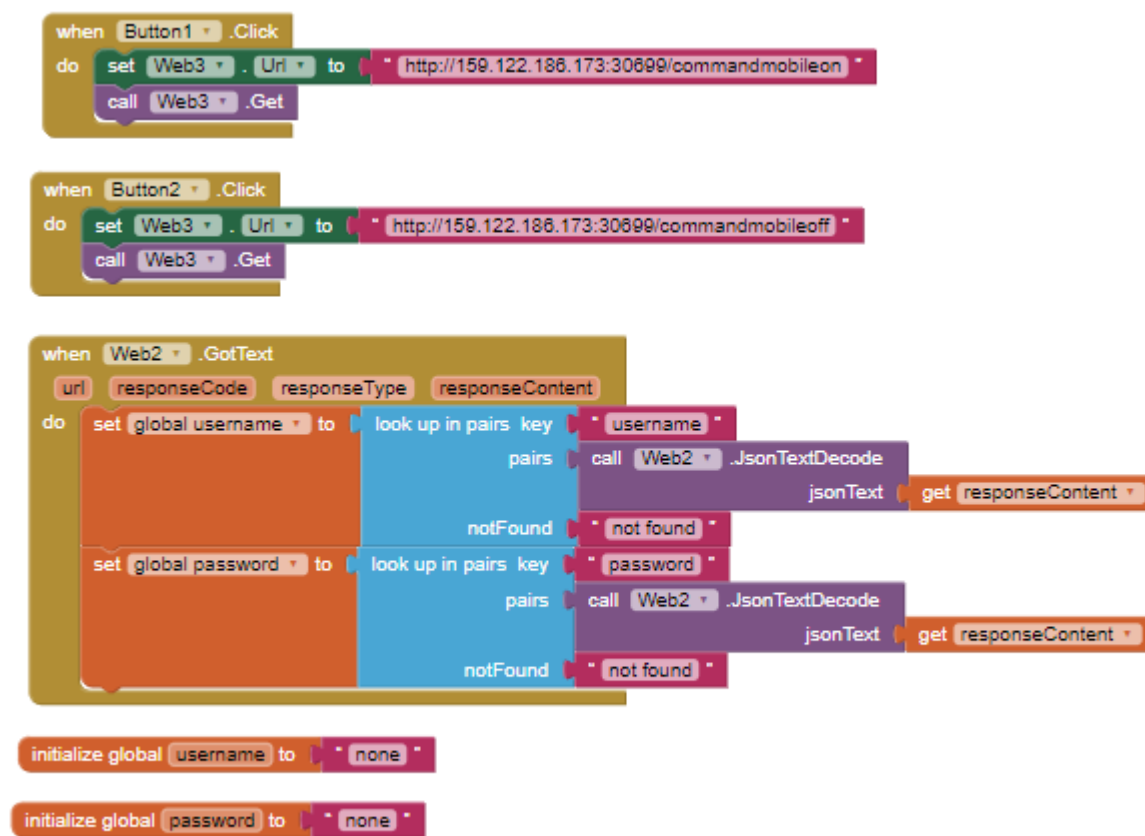
City	Pallāvaram
Country	IN
Weather	Mist
Weather Details	mist
Weather Icon	50n
Atmospheric Pressure	1008
Wind Speed	1.03
Wind Angle	0
Clouds	75
Sunrise	Thu, 24 Nov 2022 06:11
Sunset	Thu, 24 Nov 2022 17:40
Last Measured Time	Thu, 24 Nov 2022 04:01
Rain 1 hour	0
Rain 3 hour	0
Timezone	19800
Motor	
Motor ON	
Motor OFF	

## Flows:-



## MIT App Inventor Backend:-





## Further Works:-

Final works of database creation for sensor values and alert SMS for critical scenarios only remain.