

The IBM logo is displayed in white text on a blue arrow-shaped background. The arrow points to the right and is positioned to the left of the main title.

IBM

SPRINT 4 REPORT

SMARTFARMER – IOT ENABLED
SMART FARMING APPLICATION

TEAM ID – PNT2022TMID34458

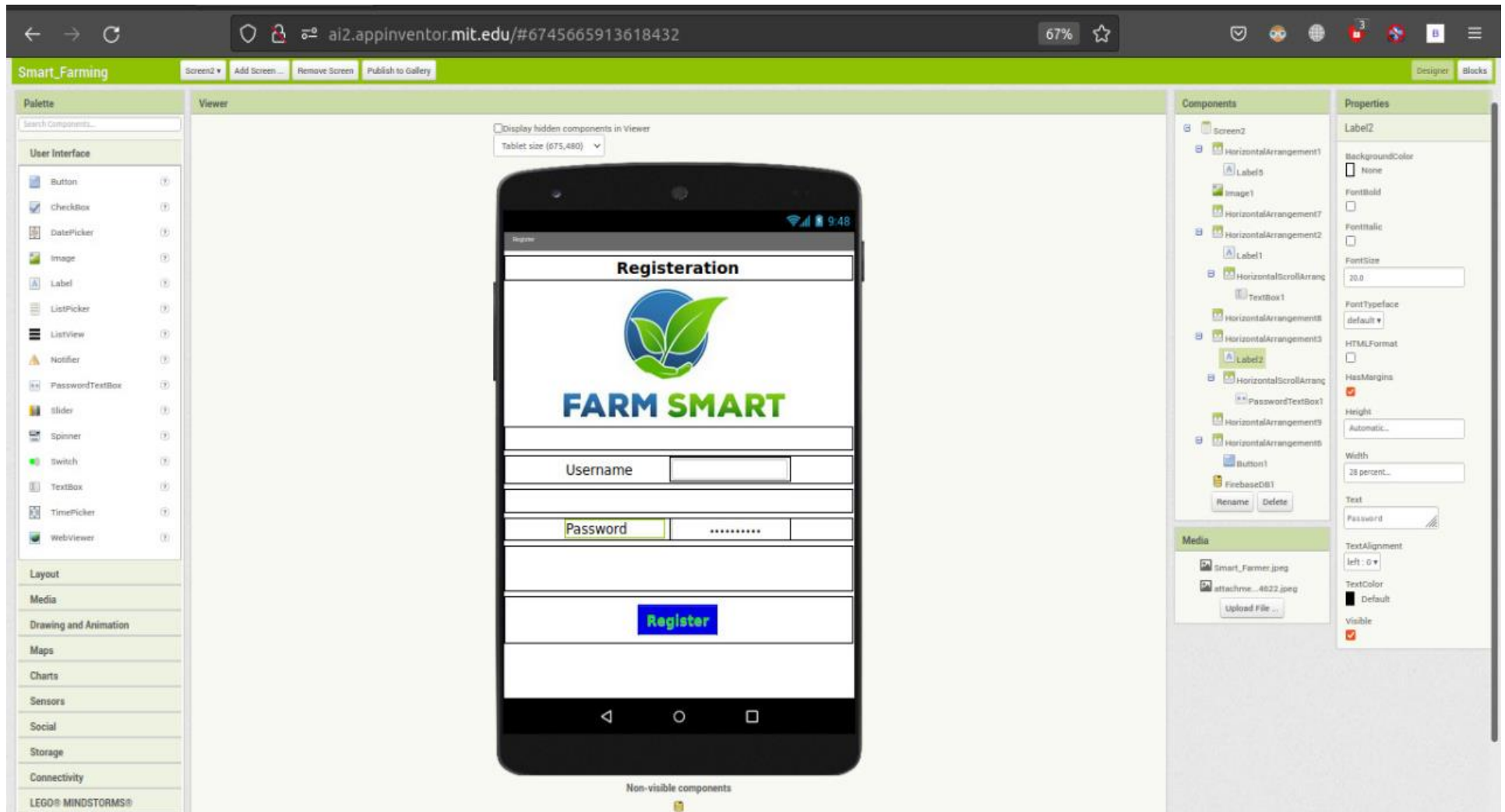
- **TEAM LEADER : MUGESHWARAN G**
- **TEAM MEMBER : ISRAVEL KEWIN CLINT P**
- **TEAM MEMBER : BLESSWIN.K.SAMUEL**
- **TEAM MEMBER : VIJAY S**

Project Tracker

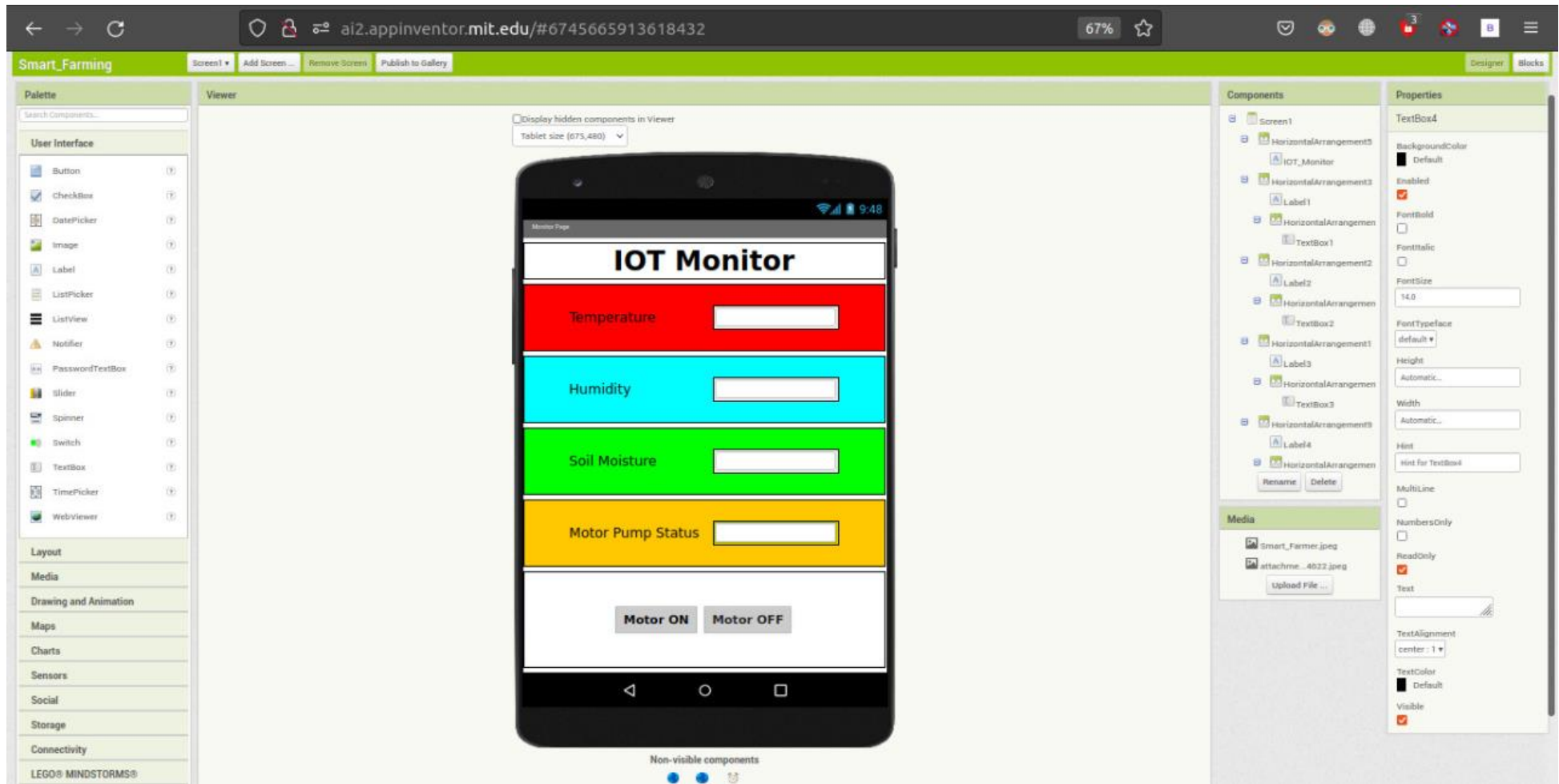
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	15	5 Days	26 Oct 2022	30 Oct 2022		30 Oct 2022
Sprint-2	15	7 Days	31 Oct 2022	06 Nov 2022		07 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022		13 Nov 2022
Sprint-4	15	6 Days	13 Nov 2022	18 Nov 2022	15	18 Nov 2022 – 19 Nov 2022

S.NO	Tools & Technology Used
1	MIT App Inventor-For Creating Application
2	Firebase – Used as a Database for user credentials
3	Manual Testing – Apps are tested manually

MIT App Login Page



MIT App Monitor Page



← → ↻ ai2.appinventor.mit.edu/#6745665913618432 67% ☆

MIT APP INVENTOR Projects Connect Build Settings Help My Projects View Trash Guide Report an Issue English mugheshwaran27@gmail.com

Smart_Farming Screen1 Add Screen ... Remove Screen Publish to Gallery Designer Blocks

Blocks

- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen1
 - HorizontalArrangement1
 - IoT_Monitor
 - HorizontalArrangement3
 - Label1
 - HorizontalArrangement1
 - TextBox1
 - HorizontalArrangement2

Media

- Smart_Farmer.jpeg
- attachme...4022.jpeg
- Upload File ...

Viewer

```
when Clock1.Timer
do
  set Web1.Url to "http://192.168.20.148:1880/sensor data "
  call Web1.Get

when Web1.GetText
do
  set TextBox1.Text to look up in pairs key "Temperature" pairs call Web1.JsonTextDecode jsonText get responseContent
  set TextBox2.Text to look up in pairs key "Humidity" pairs call Web1.JsonTextDecode jsonText get responseContent
  set TextBox3.Text to look up in pairs key "Soil Moisture" pairs call Web1.JsonTextDecode jsonText get responseContent
  set TextBox4.Text to look up in pairs key "Motor Pump Status" pairs call Web1.JsonTextDecode jsonText get responseContent

when Button1.Click
do
  set Web2.Url to "http://192.168.20.148:1880/motor control?Motor C..."
  call Web2.Get

when Button2.Click
do
  set Web2.Url to "http://192.168.20.148:1880/motor control?Motor C..."
  call Web2.Get
```

Show Warnings

Application in Mobile

12:36

VoLTE LTE 55%

Register

Registration



FARM SMART

Username

Username

Password

Password

Register

IOT Monitor

Temperature in C

10

Humidity %

26

Soil Moisture %

24

Motor Pump
Status

OFF

Motor ON

Motor OFF

Firebase Real-time Database

The screenshot shows the Firebase Realtime Database console for a project named 'Smart Farmer'. The left sidebar contains navigation options: Project Overview, Realtime Database, Build, Release & Monitor, Analytics, Engage, and All products. The main content area displays the 'Data' tab with a tree view of the database structure. The root node is 'Smart_Farmers', which contains four child nodes: 'Blesswin: "B12345"', 'Kevin: "K12345"', 'Mugesh: "m12345"', and 'Vijay: "V12345"'. The database location is specified as 'United States (us-central1)'.

Activities Firefox Web Browser Nov 17 12:50 PM

WhatsApp MIT App In Terrific Wa IBM IBM Cloud IBM Watson W esp32-dht2 Login Page Node-RED Firebase x

https://console.firebase.google.com/u/0/project/smart-farmer-fa22a/database/smart-farmer-fa22a

Smart Farmer Go to docs

Realtime Database

Data Rules Backups Usage

https://smart-farmer-fa22a-default-rtdb.firebaseio.com

```
https://smart-farmer-fa22a-default-rtdb.firebaseio.com/  
└─ Smart_Farmers  
  └─ Blesswin: "B12345"  
  └─ Kevin: "K12345"  
  └─ Mugesh: "m12345"  
  └─ Vijay: "V12345"
```

Database location: United States (us-central1)