

## Develop A Mobile Application

Team ID	PNT2022TMID30270
Project Name	SmartFarmer - IoT Enabled Smart Farming Application

## Develop A Mobile Application

The screenshot displays the MIT App Inventor web interface in a browser window. The address bar shows the URL [ai2.appinventor.mit.edu/#6235390781292544](https://ai2.appinventor.mit.edu/#6235390781292544). The project name is "smart\_farming". The interface is divided into several sections:

- Blocks:** A sidebar on the left containing categories like Built-in, Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, Procedures, and farming. The farming category is expanded, showing components like HorizontalArranger, Label1, Label2, and TextBox1.
- Viewer:** The main workspace showing a visual programming canvas with several logic blocks:
  - Web1 GotText:** A block that triggers when the web component receives data. It contains a loop that sets TextBox1, TextBox2, and TextBox3 based on the response content (Temperature, Humidity, Moisture) using "look up in pairs" and "call Web1.JsonTextDecode" blocks.
  - Web1 Timer:** A block that triggers when the timer expires. It sets the Web1 Uri to "https://node-red-zixas-2022-11-04.eu-gb.mybluemix.net/" and calls the Web1 Get method.
  - Button1 Click:** A block that triggers when Button1 is clicked. It sets the Web2 Uri to "https://node-red-zixas-2022-11-04.eu-gb.mybluemix.net/" and calls the Web2 Get method, which then sets Label5 to "MOTOR ON".
  - Button2 Click:** A block that triggers when Button2 is clicked. It sets the Web2 Uri to "https://node-red-zixas-2022-11-04.eu-gb.mybluemix.net/" and calls the Web2 Get method, which then sets Label6 to "MOTOR OFF".
- Designer:** The right side of the interface shows a preview of the mobile app with a green header, a blue body, and a red footer. It includes a "Show Warnings" button and a "Designer" tab.

The bottom of the image shows the Windows taskbar with the search bar and various application icons, including the Start menu, File Explorer, and several web browsers.

IBM Cloud x IBM Watson IoT Platform x IBM x MIT App Inventor

Not secure | ai2.appinventor.mit.edu/#6235390781292544

IBM IBM-EPBL/IBM-Proj... IBM Cloud IBM Watson IoT Pla... Node-RED : node-r... Node-RED Dashbo... MIT App Inventor https://node-red-zi...

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smart\_farming Screen1 Add Screen ... Remove Screen Publish to Gallery Designer Blocks

Palette Search Components... User Interface Button CheckBox DatePicker Image Label ListPicker ListView Notifier PasswordTextBox Slider Spinner Switch TextBox TimePicker WebViewer

Viewer ☐ Display hidden components in Viewer Phone size (505,320) Phone size (505,320)

Components Screen1 HorizontalArrangement1 Label1 HorizontalArrangement3 Label2 User\_name Label3 PasswordTextBox1 HorizontalArrangement2 Button1 HorizontalArrangement4 Label4 Rename Delete Media

Properties Screen1 AboutScreen [Text Field] AccentColor Black AlignHorizontal Left : 1 AlignVertical Top : 1 AppName smart farming BackgroundColor Red BackgroundImage adele-payman-2oYMwuFgnTf BigDefaultText [Checkbox] BlocksToolkit All CloseScreenAnimation Default DefaultFileScope

Log in page

Login to your profile

Username [Text Field]

Password [Text Field]

Log in

Type here to search

09:11 PM 19-11-2022

Farming

## Weather Monitoring

Temperature - \*C

97

Humidity - %

99

Moisture - %

82

## Control

MOTOR ON

MOTOR OFF

