

**Project Development Phase**  
**Sprint 4**

Date	15 November 2022
Team ID	PNT2022TMID32996
Project Name	Project –IoT Based Smart Crop Protection System For Agriculture

**OBJECTIVE:**

Using the MIT app inventor to create the app application to ON/OFF the motor in the field with connecting the Bluetooth module.

**MIT APP INVENTOR : TO CONTROL MOTOR SYSTEM**



## CONTROLLER\_ON\_OFF

Screen1 ▾ Add Screen ... Remove Screen Publish to Gallery

Designer Blocks

### Palette

Search Components...

#### User Interface

##### Layout

- HorizontalArrangement ?
- HorizontalScrollArrangement ?
- TableArrangement ?
- VerticalArrangement ?
- VerticalScrollArrangement ?

##### Media

##### Drawing and Animation

##### Maps

##### Charts

##### Sensors

##### Social

##### Storage

##### Connectivity

##### LEGO® MINDSTORMS®

##### Experimental

##### Extension

### Viewer

☐ Display hidden components in Viewer

Phone size (505,320) ▾



### Components

- Screen1
  - VerticalArrangement1
    - Image1
    - Clock1

Rename Delete

#### Media

- 325-3250...ource.png
- 681c22\_1...a\_mv2.png
- OIP.jiff

### Properties

Screen1

AboutScreen

AccentColor

Magenta

AlignHorizontal

Left : 1 ▾

AlignVertical

Top : 1 ▾

AppName

CONTROLLER\_ON\_OFF

BackgroundColor

☐ Default

BackgroundImage

{2ehzdayvae9u2zemxxilbuc

BigDefaultText

☐

BlocksToolkit

All ▾

CloseScreenAnimation

Default ▾

DefaultFileScope

App ▾

HighContrast

☐

Icon



## CONTROLLER\_ON\_OFF

Screen1 • Add Screen ... Remove Screen Publish to Gallery

Designer Blocks

### Palette

Search Components...

#### User Interface

##### Layout

- HorizontalArrangement
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- TableArrangement
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- VerticalScrollArrangement

##### Media

##### Drawing and Animation

##### Maps

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##### Sensors

##### Social

##### Storage

##### Connectivity

##### LEGO® MINDSTORMS®

##### Experimental

##### Extension

### Viewer

☐ Display hidden components in Viewer

Phone size (505,320) ▾



### Components

- Screen1
  - VerticalArrangement1
    - Image1
    - Clock1

Rename Delete

### Properties

#### Clock1

TimerAlwaysFires



TimerEnabled



TimerInterval

2000

### Media

- 325-3250...ource.png
- 681c22\_1...a\_mv2.png
- OIPjiff



## CONTROLLER\_ON\_OFF

Screen1 ▾

Add Screen ...

Remove Screen

Publish to Gallery

Designer

Blocks

### Blocks

#### Built-in

Control

Logic

Math

Text

Lists

Dictionaries

Colors

Variables

Procedures

#### Screen1

VerticalArrangement1

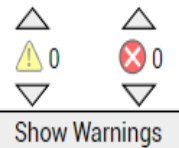
Image1

Clock1

#### Any component

### Viewer

```
when Clock1.Timer
do
  set Clock1.TimerEnabled to false
  open another screen screenName Screen2
```



CONTROLLER\_ON\_OFF

Screen2Add Screen ...Remove ScreenPublish to Gallery

DesignerBlocks

Search Components...

User Interface

Layout

HorizontalArrangement

HorizontalScrollArrangement

TableArrangement

VerticalArrangement

VerticalScrollArrangement

Media

Drawing and Animation

Maps

Charts

Sensors

Social

Storage

Connectivity

LEGO® MINDSTORMS®

Experimental

Extension

Viewer


Display hidden components in Viewer

Phone size (505,320)

SCAN

CONNECTDISCONNECT

NOT CONNECTED



Non-visible components

BluetoothClient1Clock2

Components

Screen2

ListPicker1

HorizontalArrangement1

CONNECT\_BTN

DISCONNECT\_BTN

Label1

BluetoothClient1

Clock2

RenameDelete

Media

325-3250...ource.png

681c22\_1...a\_mv2.png

OIP.jif

d9c5545a...d21f0.jpg

l2ehzday...y9ih-.jpg

Upload File ...

Properties

CONNECT\_BTN

BackgroundColor

Default

Enabled

FontBold

FontItalic

FontSize

19

FontTypeface

default

Height

Automatic...

Width

Automatic...

Image

None...

Shape

default

ShowFeedback

Text

CONNECT

TextAlignment

center: 1

TextColor

CONTROLLER\_ON\_OFF

00:19:09:03:25:1E HC-05

E8:07:BF:00:76:3A boAt Airdopes 201

1F:57:1C:44:CB:41 I13

AD:FO:FO:OF:46:FF ZEB-BT6790RUCF

FF:21:84:44:4B:9A SKE

00:00:AB:CD:9D:62 Shots Ergo



## CONTROLLER\_ON\_OFF

Screen2 ▾ Add Screen ... Remove Screen Publish to Gallery

Designer Blocks

## Blocks

## Built-in

- Control
- Logic
- Math
- Text
- Lists
- Dictionaries
- Colors
- Variables
- Procedures

## Screen2

- ListPicker1
- HorizontalArrangement
- CONNECT\_BTN
- DISCONNECT\_BTN
- Label1
- BluetoothClient1

## Clock2

Rename Delete

## Media

- 325-3250...ource.png
- 681c22\_1...a\_mv2.png

## Viewer

```
when ListPicker1 .BeforePicking
do set ListPicker1 . Elements to BluetoothClient1 . AddressesAndNames

when ListPicker1 .AfterPicking
do set Label1 . Text to "CONNECT YOUR DEVICE"

when CONNECT_BTN .Click
do set ListPicker1 . Selection to call BluetoothClient1 .Connect
address ListPicker1 . Selection
set Label1 . Text to "CONNECT"

when DISCONNECT_BTN .Click
do call BluetoothClient1 .Disconnect
set Label1 . Text to "DISCONNECT"

when Clock2 .Timer
do set Clock2 . TimerEnabled to false
open another screen screenName Screen3
```

⚠ 0 ✖ 0

Show Warnings



Palette

Search Components...

User Interface

Layout

- HorizontalArrangement
- HorizontalScrollArrangement
- TableArrangement
- VerticalArrangement
- VerticalScrollArrangement

Media

Drawing and Animation

Maps

Charts

Sensors

Social

Storage

Connectivity

LEGO® MINDSTORMS®

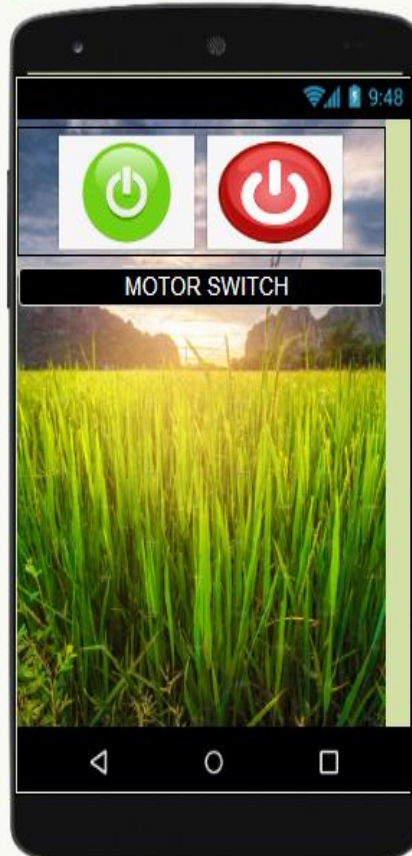
Experimental

Extension

Viewer

☐ Display hidden components in Viewer

Phone size (505,320)



Non-visible components

BluetoothClient1

Components

- Screen3
  - HorizontalArrangement1
    - Button1
    - Button2
  - TextBox1
  - BluetoothClient1

Rename Delete

Media

- 325-3250...ource.png
- 681c22\_1...a\_mv2.png
- OIP.jfif
- d9c5545a...d21f0.jpg
- t2ehzday...y9lh-.jpg

Properties

Screen3

AboutScreen

AlignHorizontal

Left: 1

AlignVertical

Top: 1

BackgroundColor

☐ Default

BackgroundImage

t2ehzdayvse9u2zxmoxilbuc

BigDefaultText

☐

CloseScreenAnimation

Default

HighContrast

☐

OpenScreenAnimation

Default

ScreenOrientation

Unspecified

Scrollable

☐

ShowStatusBar

☒

Title

Screen3

TitleVisible

☐



Blocks

Built-in

- Control
- Logic
- Math
- Text
- Lists
- Dictionaries
- Colors
- Variables
- Procedures

Screen3

- HorizontalArrangement1
  - Button1
  - Button2
  - TextBox1
  - BluetoothClient1

Any component

Rename

Delete

Media

325-3250...ource.png

Viewer

```

when Button1 .Click
do call BluetoothClient1 .SendText
    text "1"
    
```

```

when Button2 .Click
do call BluetoothClient1 .SendText
    text "0"
    
```

⚠ 0    ✖ 0  
 Show Warnings

