

PROJECT DEVELOPMENT PHASE

SPRINT 3

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|---------------------|--|
| Date | 09 November 2022 |
| Team ID | PNT2022TMID35929 |
| Project Name | Real time river water quality monitoring and control system |
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APP LOGIC BLOCK DESIGN BY MIT APP INVENTOR:

SCREEN 1:

Water_quality

Screen1 ▾Add Screen ...Remove ScreenPublish to Gallery

Designer

Block

Blocks

Viewer

⊞ Built-in

Control

Logic

Math

Text

Lists

Dictionaries

Colors

Variables

Procedures

⊞ Screen1

VerticalArrangement1

Clock1

⊞ Any component





⚠ 0

✖ 0

Show Warnings

when Clock1 ▾.Timer

do open another screen screenName Screen2 ▾



SCREEN 2:

Viewer

```
graph TD
    subgraph "when Button1.Click"
        direction TB
        B1[when Button1.Click] --> C1[do call FirebaseDB1.GetValue]
        C1 --> T1[tag TextBox1.Text]
        C1 --> V1[value NA]
    end

    subgraph "when Button2.Click"
        direction TB
        B2[when Button2.Click] --> C2[do call FirebaseDB1.StoreValue]
        C2 --> T2[tag TextBox1.Text]
        C2 --> V2[value PasswordTextBox1.Text]
    end

    subgraph "when Clock1.Timer"
        direction TB
        C3[when Clock1.Timer] --> S1[do set Web1.Url to https://node-red-ecedb-2022-11-17.au-syd.mybluem... ]
        S1 --> C4[call Web1.Get]
    end

    subgraph "when FirebaseDB1.GetValue"
        direction TB
        C5[when FirebaseDB1.GetValue] --> T3[tag value]
        T3 --> I1[if get tag == TextBox1.Text]
        I1 --> I2[then if get value == PasswordTextBox1.Text]
        I2 --> S2[then set VerticalArrangement1.Visible to true]
        I2 --> S3[set HorizontalArrangement1.Visible to false]
    end
```

when Button1.Click

do call FirebaseDB1.GetValue

tag TextBox1.Text

value NA

when Button2.Click

do call FirebaseDB1.StoreValue

tag TextBox1.Text

valueToStore PasswordTextBox1.Text

when Clock1.Timer

do set Web1.Url to "https://node-red-ecedb-2022-11-17.au-syd.mybluem..."

call Web1.Get

when FirebaseDB1.GetValue

tag value

do if get tag == TextBox1.Text

then if get value == PasswordTextBox1.Text

then set VerticalArrangement1.Visible to true

set HorizontalArrangement1.Visible to false

Show Warnings

SCREEN 3:

