

PROJECT: REAL TIME RIVER WATER
QUALITY MONITORING AND
CONTROL SYSTEM

TEAM SIZE: 4

TEAM ID: PNT2022TMID31860

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The main workspace is divided into four panels:

- Palette:** Contains a search bar and two sections: "User Interface" with various widgets like Button, CheckBox, DatePicker, Image, Label, ListPicker, ListView, Notifier, PasswordTextBox, Slider, Spinner, Switch, TextBox, and TimePicker; and "Layout" with a WebViewer.
- Viewer:** Displays a mobile phone simulation. At the top, there is a checkbox "Display hidden components in Viewer" and a dropdown menu showing "Phone size (505,320)". The phone screen shows a header "Screen1" with a status bar at the top displaying signal, battery, and time (9:48). Below the header are two text boxes: "Text for Label1" and "Text for Label2".
- Components:** A tree view showing the hierarchy of components on the screen: "Screen1" contains "HorizontalArrangement1" (which contains "Label1") and "HorizontalArrangement2" (which contains "Label2").
- Properties:** Shows the properties for the selected component, "HorizontalArrangement1". Properties include: "AlignHorizontal" (Left: 1), "AlignVertical" (Top: 1), "BackgroundColor" (Default), "Height" (50 pixels...), "Width" (Fill parent...), "Image" (None...), and "Visible" (checked).

← → ↺

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Maps

Charts

Sensors

AccelerometerSensor ⓘ

BarcodeScanner ⓘ

Barometer ⓘ

Clock ⓘ

GyroscopeSensor ⓘ

Hygrometer ⓘ

LightSensor ⓘ

LocationSensor ⓘ

MagneticFieldSensor ⓘ

NearField ⓘ

OrientationSensor ⓘ

Pedometer ⓘ

ProximitySensor ⓘ

Thermometer ⓘ

Social

Storage

Connectivity

LEGO® MINDSTORMS®

Experimental

Extension

Temperature

Humidity

PH Sensor

ON OFF

Label3

HorizontalArrangement4

Label4

Label5

Rename Delete

Media

Upload File ...

FontSize

14.0

FontTypeface

default ▾

HTMLFormat

☐

HasMargins

☒

Height

30 pixels...

Width

Automatic...

Text

ON

TextAlignment

left : 0 ▾

TextColor

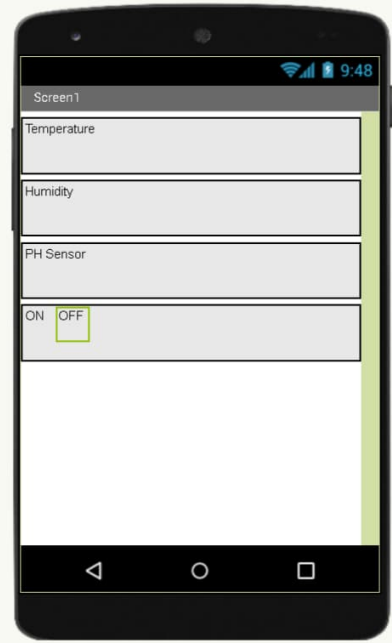
☒ Green

Visible

☒

- User Interface
- Button
 - CheckBox
 - DatePicker
 - Image
 - Label**
 - ListPicker
 - ListView
 - Notifier
 - PasswordTextBox
 - Slider
 - Spinner
 - Switch
 - TextBox
 - TimePicker
 - WebView
- Layout
- Media
- Drawing and Animation
- Maps
- Charts
- Sensors

Phone size (505,320)



HorizontalArrangement1
Label1

HorizontalArrangement2
Label2

HorizontalArrangement3
Label3

HorizontalArrangement4
Label4
Label5

BackgroundColor
☐ None

FontBold
☐

FontItalic
☐

FontSize
14.0

FontTypeface
default

HTMLFormat
☐

HasMargins
☒

Height
30 pixels...

Width
Automatic...

Text
OFF

TextAlignment
left: 0

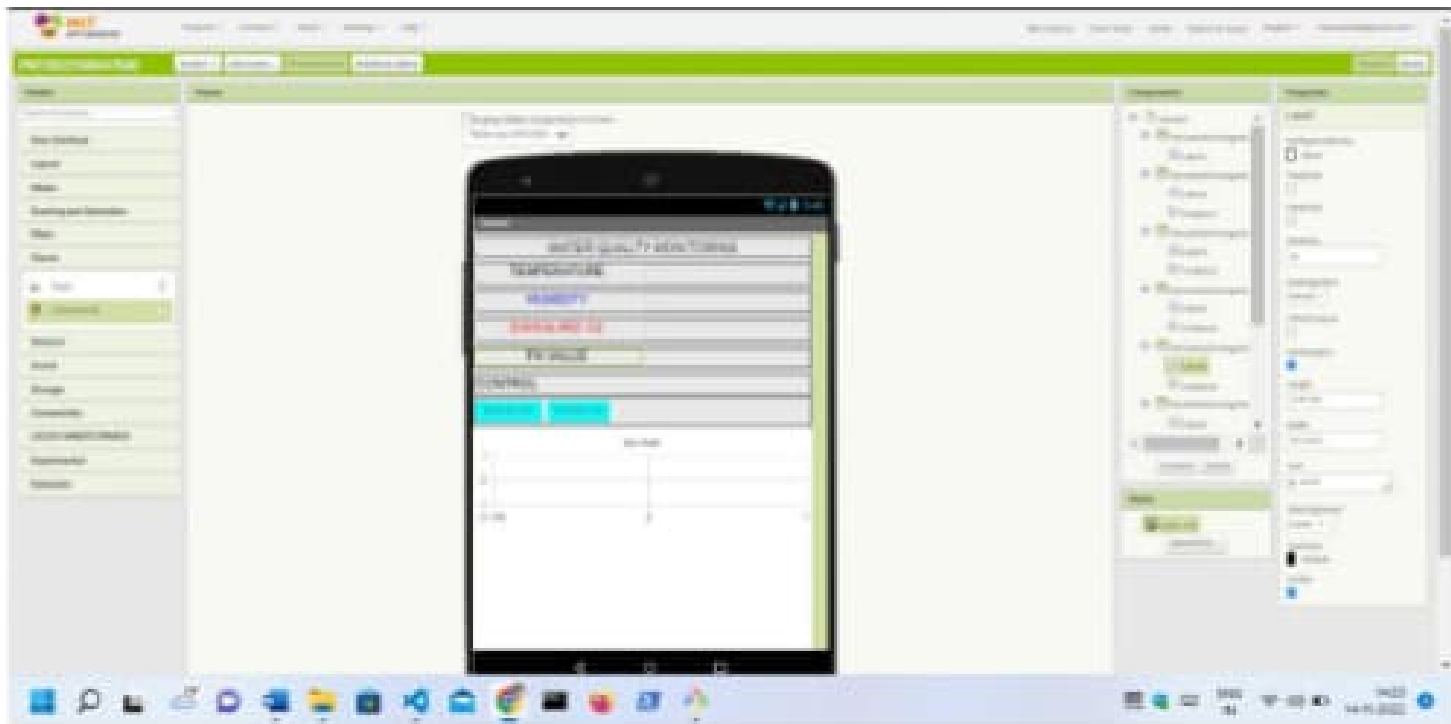
TextColor
Default

Visible
☒

Media

Upload File ...

Rename Delete

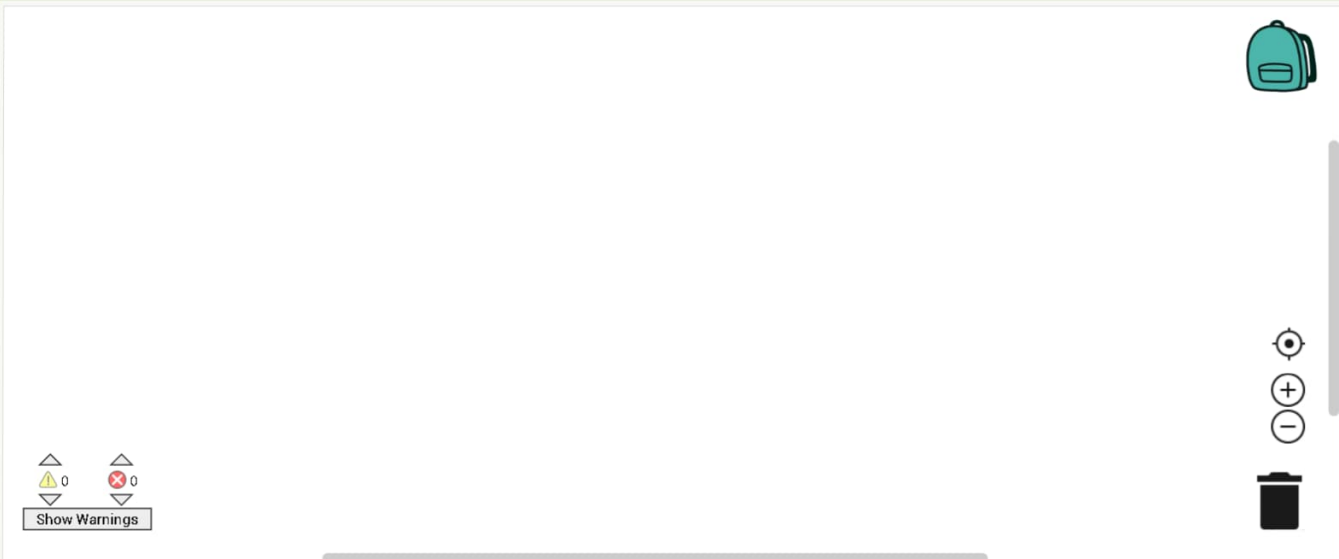


Blocks

- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen1
 - HorizontalArranger
 - Label1
 - HorizontalArranger
 - Label2
 - HorizontalArranger
 - Label3

Rename Delete

Viewer



Blocks

- Built-in
 - Control
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 - Colors
 - Variables
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- Screen1
 - HorizontalArranger
 - Label1
 - HorizontalArranger
 - Label2
 - HorizontalArranger
 - Label3

Rename Delete

Viewer

Blocks

Built-in

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

Screen1

- HorizontalArranger
- Label1
- HorizontalArranger
- Label2
- HorizontalArranger
- Label3

Rename Delete

Viewer

set Label1 . Height to

set Label1 . HeightPercent to

Label1 . Text

set Label1 . Text to

Label1 . TextColor

set Label1 . TextColor to

Label1 . Visible

set Label1 . Visible to

Label1 . Width

set Label1 . Width to

set Label1 . WidthPercent to

Show Warnings

Label1

Blocks

- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen1
 - HorizontalArrangem...
 - Label1
 - HorizontalArrangem...
 - Label2
 - HorizontalArrangem...
 - Label3

Rename Delete

Media

Viewer

```
set HorizontalArrangement2 . HeightPercent to  
HorizontalArrangement2 . Image  
set HorizontalArrangement2 . Image to No available assets  
HorizontalArrangement2 . Visible  
set HorizontalArrangement2 . Visible to  
HorizontalArrangement2 . Width  
set HorizontalArrangement2 . Width to  
set HorizontalArrangement2 . WidthPercent to  
HorizontalAlignment Left  
VerticalAlignment Top  
No available assets  
Show Warnings  
HorizontalArrangement2
```

Blocks

Built-in

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

Screen1

- HorizontalArranger
- Label1
- HorizontalArranger
- Label2
- HorizontalArranger
- Label3

Rename Delete

Viewer

set HorizontalArrangement3 . Height to

set HorizontalArrangement3 . HeightPercent to

HorizontalArrangement3 . Image

set HorizontalArrangement3 . Image to No available assets

HorizontalArrangement3 . Visible

set HorizontalArrangement3 . Visible to

HorizontalArrangement3 . Width

set HorizontalArrangement3 . Width to

set HorizontalArrangement3 . WidthPercent to

HorizontalAlignment Left

VerticalAlignment Top

No available assets



RiverWater

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

Designer

Blocks

Blocks

Viewer

- Built-in
 - Control
 - Buttons
 - Labels
 - Math
 - Text
 - Lists
 - Systemaries
 - Colors
 - Variables
 - Procedures
 - Screen2
 - VerticalManager1
 - VerticalManager
 - Label4
 - Textbox1
 - Textbox2
 - Label5



Real Time Water Quality Monitoring

MONITORING WINDOW

pH Value : 59

Turbidity : 63

Temperature: 47



START

LEFT

FORWARD

RIGHT

STOP

Motor controller

Log OUT