

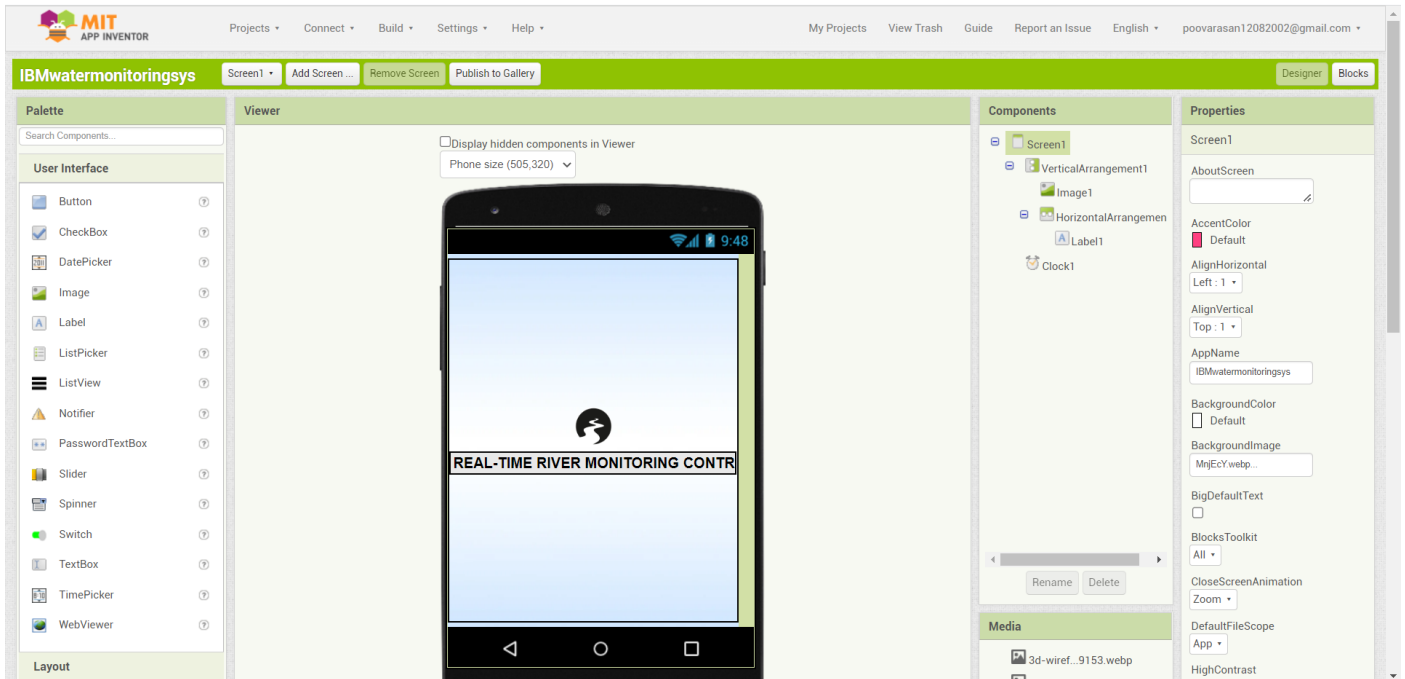
REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

SPRINT-4

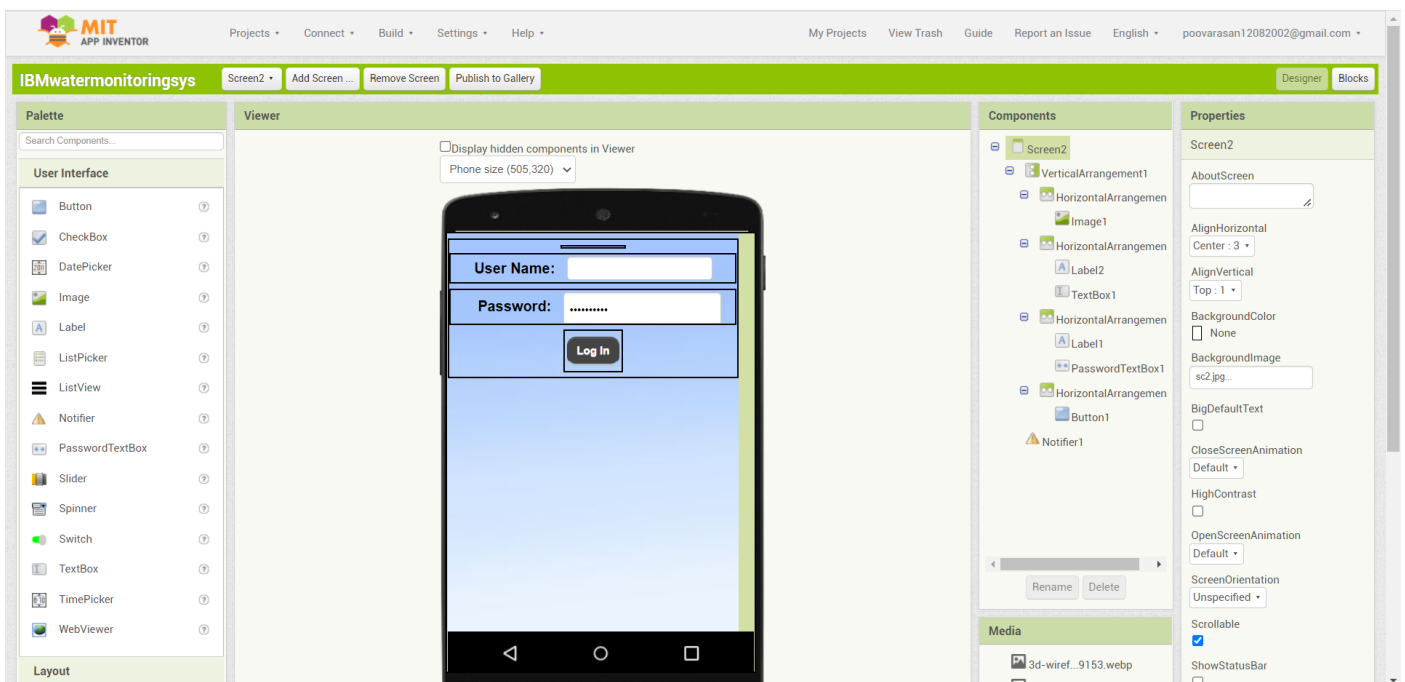
MIT APP INVENTOR:

FRONT END:

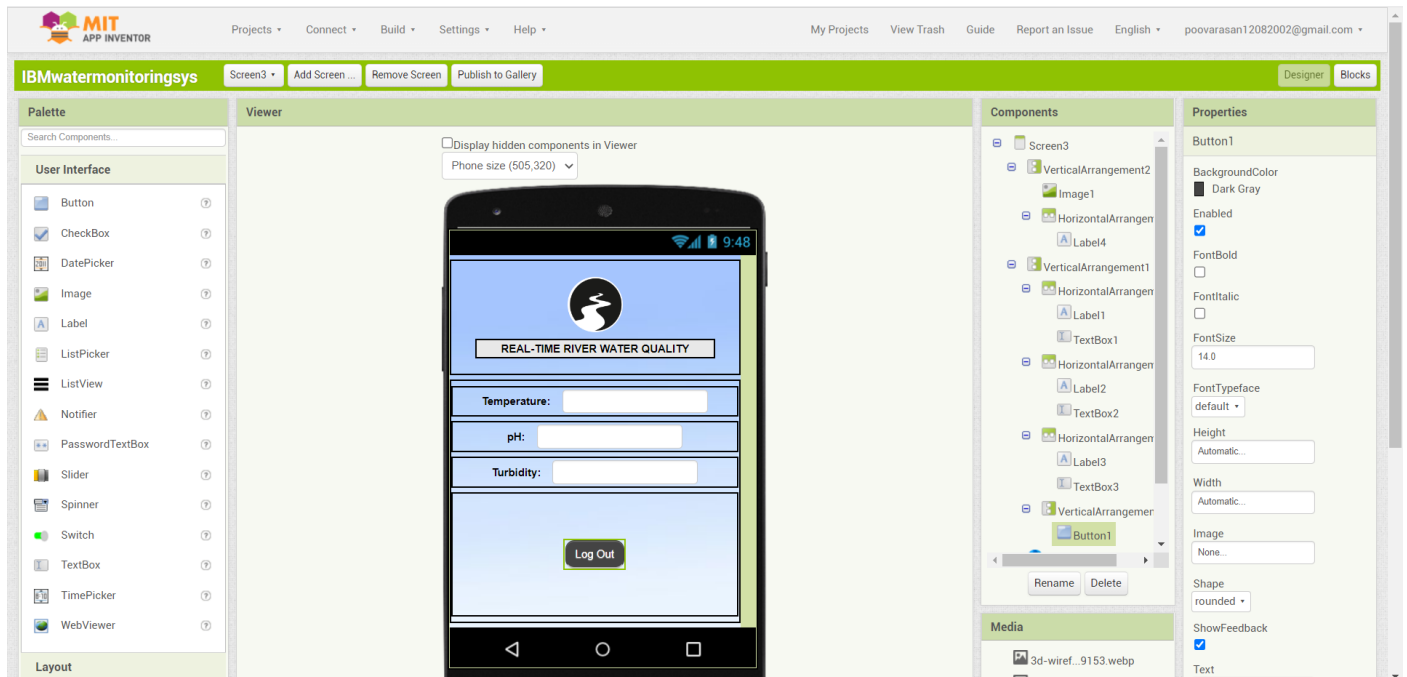
SCREEN-1:



SCREEN-2:

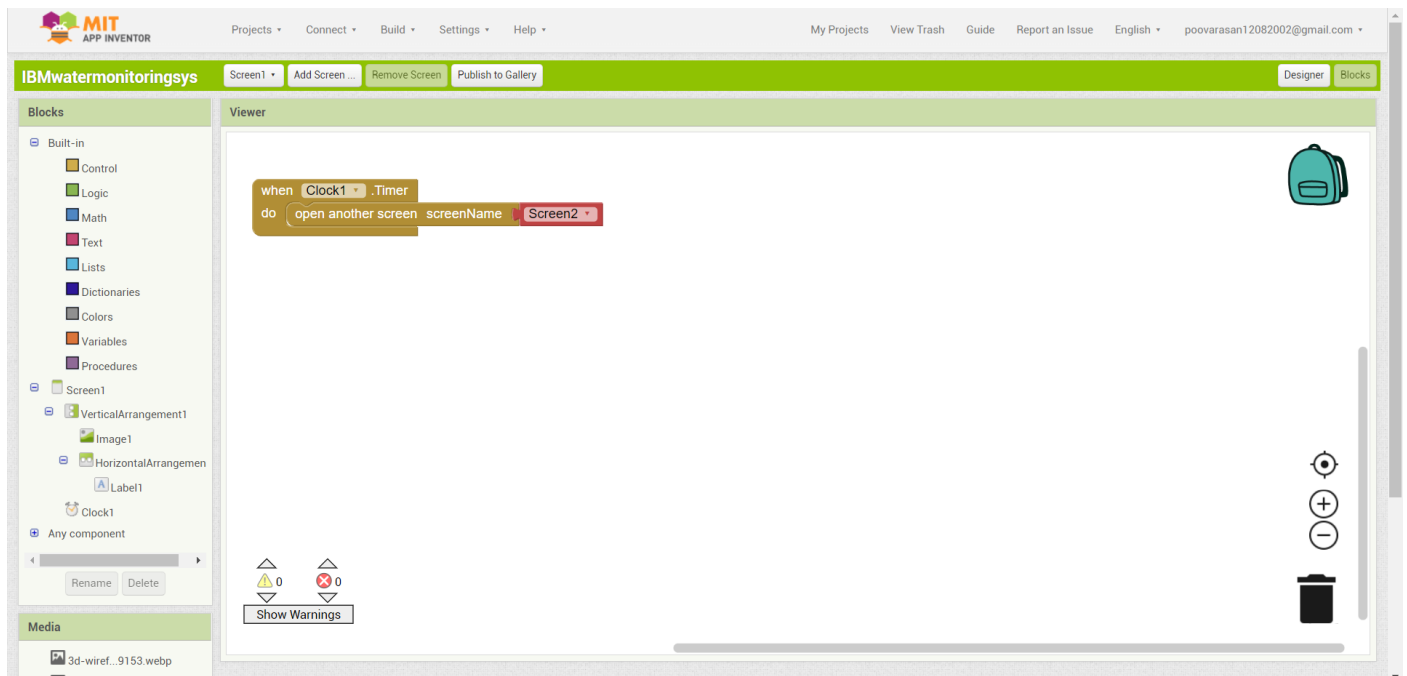


SCREEN-3:



BACK END:

SCREEN-1:



SCREEN-2:

MIT APP INVENTOR

Projects Connect Build Settings Help

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IBMwatermonitoringsys Screen2 Add Screen Remove Screen Publish to Gallery Designer Blocks

Blocks

- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen2
 - VerticalArrangement1
 - HorizontalArrangement1
 - Image1
 - HorizontalArrangement1
 - Label2
 - TextBox1

Media

- 3d-wiref...9153.webp
- ...

Viewer

when Button1 Click

do

if

TextBox1.Text = 'abcd' or TextBox1.Text = 'efgh' and PasswordTextBox1.Text = '1234'

then

open another screen screenName Screen3

else

call Notifier1 ShowAlert

notice 'User Name or Password is incorrect!'

Show Warnings

SCREEN-3:

MIT APP INVENTOR

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IBMwatermonitoringsys Screen3 Add Screen Remove Screen Publish to Gallery Designer Blocks

Blocks

- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen3
 - VerticalArrangement2
 - Image1
 - HorizontalArrangement1
 - Label4
 - VerticalArrangement1
 - HorizontalArrangement1

Media

- 3d-wiref...9153.webp
- ...

Viewer

when Notifier1 AfterChoosing

choice

do

if

'Yes' = get choice

then

open another screen screenName Screen2

when Button1 Click

do

call Notifier1 ShowChooseDialog

message 'Are you sure to LOG OUT!'

title ALERT1

button1Text Yes

button2Text No

cancelable true

when Clock1 Timer

do

set Web1 Uri to http://199.51.206.144:30925/sensor

call Web1 Get

when Web1 GotText

uri responseCode responseType responseContent

do

set TextBox1 Text to look up in pairs key temp

call Web1 JsonTextDecode

jsonText get responseContent

Event indicating that a request has finished

notFound not found

set TextBox2 Text to look up in pairs key pH

call Web1 JsonTextDecode

jsonText get responseContent

notFound not found

set TextBox3 Text to look up in pairs key turbid

call Web1 JsonTextDecode

jsonText get responseContent

notFound not found

call Notifier1 ShowAlert

notice

if

1 = look up in pairs key alert

call Web1 JsonTextDecode

jsonText get responseContent

notFound not found

then

'The water quality is not good'

else

'Safe for usage'

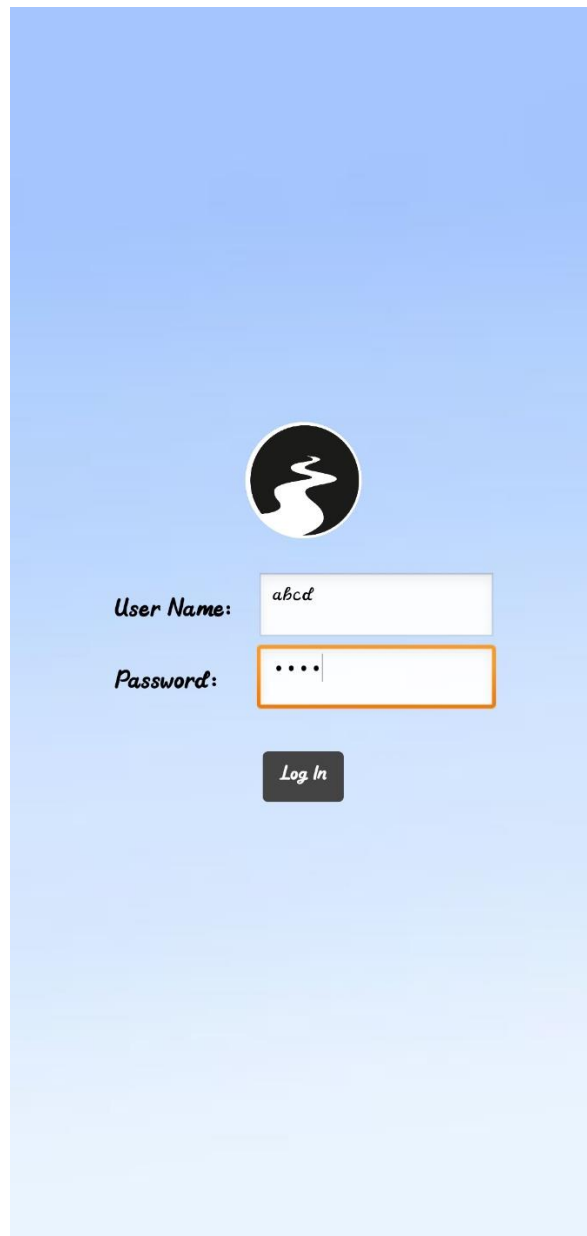
Show Warnings

MIT APP INVERTOR OUTPUT-MOBILE PHONE:

SCREEN-1:



SCREEN-2:



SCREEN-3:

If temperature > 120, pH > 6 and turbidity < 500.

The app shows “**SAFE FOR USAGE**”.

If temperature < 120, Ph < 6 and turbidity > 500.

The app shows “**THE WATER QUALITY IS NOT GOOD**”.




REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

Temperature:	<input type="text" value="71"/>
pH:	<input type="text" value="8"/>
Turbidity:	<input type="text" value="9"/>

Safe for usage

[Log Out](#)



REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

Temperature:	<input type="text" value="72"/>
pH:	<input type="text" value="10"/>
Turbidity:	<input type="text" value="385"/>

The water quality is not good

[Log Out](#)