



KOLEJ PROFESIONAL MARA BERANANG

DIPLOMA IN COMPUTER SCIENCE

COURSE NAME	: MOBILE APPLICATION DEVELOPMENT
COURSE CODE	: CSC2813
ACADEMIC SESSION	: 1 2023 / 2024
TYPE OF ASSESSMENT	: FINAL PROJECT
DURATION	: 29/5/2023 – 26/6/2023

CLO 2: Build a mobile application for a specific platform or operating system. (C3,PLO6)

INSTRUCTION TO CANDIDATES:

1. Late submissions after given due date will not be accepted.
2. Report should be written using: Font type: Arial

Size: 11 pts

Line Spacing: 1.5

Personal Details	
Name	ALIF HILMY BIN ROSDI
I/D Number	BCS2111-023
Class	DCS5C
Lecturer	PUAN NOOR FAZLIANI

Section / Question No.	Marks
Task 1	
Task 2	
Task 3	
Task 4	
Task 5	
Total	/ 52
Total Percentage	/45

Scenario

Android apps are currently used in various devices such as mobiles, tablets, televisions, etc. It provides a rich application framework that allows us to build innovative apps and games for mobile devices in a Java language environment.

Mobile apps have the advantage of utilizing features of a mobile device like a camera, contact list, GPS, phone calls, accelerometer, compass, etc. Such device features, when used within an app, can make the user experience interactive and fun.

As an android developer you are required to build an android application of your choice based on below domain. Choose your domain and define your apps to be developed.

No	Domain
1	Services
2	Medical (Clinic/Hospital/Farmacy)
3	Traveling
4	Games
5	Education – Interactive learning

Remember - The application needs to be well-developed, interesting, and helpful in resolving users' present issues.

Task:

1. Describe the project overview (Documentation)
 - a. Project Name
 - b. Target Audience
 - c. Description of the project
2. Create your mobile application and include features/components to have a complete set of your design
 - a. User Interface
 - b. Layout
 - c. Media
 - d. Sensor
 - e. Storage
 - f. Common Intents
 - g. Use of block editor content
3. Include the honors software design custom for android application.
 - a. Complexity
 - b. User friendly
 - c. Functionality

- d. Graphics
 - e. Creativity
 - f. Information
 - g. Programming
4. Submit a runtime screen capture throughout the application. (Documentation)
 5. Demo your android application project.
 6. Evaluate group presentation team (Refer Appendix 1)

Turning in project:

Project should be saved as .apk file and upload to the teams group class. The project also needs to be published to gallery with clear description of the application. Share the link in your report. Print QR code of your android package kit(apk) file as a front page of your project.

Assessment Rubrics:

Task		1	2	3	4	Marks
1.	Describe the project overview (Documentation) ➤ Project Name ➤ Target Audience ➤ Description of the project	Provide one from the list below: ▪ Project Name ▪ Target Audience ▪ Description of the project	Provide two from the list below: ▪ Project Name ▪ Target Audience ▪ Description of the project	Provide ALL from the list below: ▪ Project Name ▪ Target Audience ▪ Description of the project		
2.	Create your mobile application and include features/components to have a complete set of your design a. User Interface	Include any one (1) the user interface components below by using button, checkbox, image, label, textbox, etc. ▪ Input control / Content Area ▪ Navigational components ▪ Informational components	Include any two (2) the user interface components below by using button, checkbox, image, label, textbox, etc. ▪ Input control / Content Area ▪ Navigational components ▪ Informational components	Include all the user interface components below by using button, checkbox, image, label, textbox, etc. ▪ Input control / Content Area ▪ Navigational components ▪ Informational components	Include all the user interface components below by using button, checkbox, image, label, textbox, etc. ▪ Input control / Content Area ▪ Navigational components ▪ Informational components ▪ All the user interface components are well identified its name.	

	b. Layout	Minimal use of layout tools.	Layout features are used with good arrangement of buttons, image, label, and other components.			
	c. Media	At least one (1) media such as sound, player, etc. is used in Application.	Multiple media are used in application but not relevant for the specific audience.	Multiple media are used in App for a reasonable and practical purposes for the specific audience.		
	d. Sensor	Attempted to use sensor in application. However, the sensor does not work as designed or does not add functionality to the application.	Sensors are used during application well coded.	Sensors are used during application and data from sensors is modeled and used to control functionality of application.		
	e. Storage	Attempted to use storage in application.	Storage is used during application and all the data are well stored.	All the data are well stored and data can be retrieved by displaying the desired output.	Able to modify data by updating/deleting from storage.	
	f. Common intents	Attempted to use other explicit intents such as alarm, map, camera, drawing, web browser, etc in application.	Perform the action for specific intents.	The intents created serve a reasonable and practical purpose for the application.		

	g. Use of block editor content	Include one (1) of the required components such as behaviors for the component, Event Handlers that use arguments, Variable(s)	Include two (2) of the required components such as behaviors for the component, Event Handlers that use arguments, Variable(s)	Include all of the required components such as behaviors for the component, Event Handlers that use arguments, Variable(s)		
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Task		1	2	3	4	Marks
3.	Include the honors software design custom for android application. a. Complexity	The application looks trivial and not relevant for specific audience.	The application looks trivial, but relevant for specific audience.	The application must be non-trivial and serve a reasonable, practical purpose for a specific audience.		
	b. User friendly	The application is not user friendly at all.	The application well userfriendly. Directions or explanatory messages is provided.			
	c. Functionality	Less than 60% of the app is working.	60-70% of the app is working.	80-90% of the app is working.	100% of the app is working.	
	d. Graphics	Photos are blurry or fuzzy; icons and clip art do not "fit" with the topic.	Photos, icons, and clip art are appropriate, of high quality.	Photos, icons, and clip art are used creatively and may follow a theme.		
	e. Creativity	Minimal effort. Poor layout/design. Did not incorporate required attributes, graphics, did not resize pictures, inappropriate graphics.	Well done and interesting to the audience. Added a few original touches to enhance the project; used a good variety of appropriate graphics.	Presented with originality. Excellent layout/design work incorporating all required attributes, great variety of appropriate graphics that enhanced the pages.		

	f. Information	Information is poorly written, inaccurate, or incomplete.	Information could be better written and too much information is given in each section.	Information is well written and interesting to read and is presented in short sections.		
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Task		1	2	3	4	Marks
	g. Programming	<ul style="list-style-type: none"> ▪ The application has a very basic programming that does not show the knowledge of control structure. 	<ul style="list-style-type: none"> ▪ The application has some minor error but works well for the most part. ▪ The application shows some understanding of programming control structure but can be better ▪ All the variables used are well initialized. 	<ul style="list-style-type: none"> ▪ Coding standards should be followed consistently and easy to read. ▪ The application works perfectly and very well designed. ▪ All instructions and commands have been optimized wisely. 		
4.	Submit a runtime screen capture throughout the application. (Documentation)	Provide partly screen capture from the application.	Provide all the screen capture throughout the application.			

5.	Demo your android application project.	<p>Provide at least one (1) from the list below:</p> <ul style="list-style-type: none"> ▪ Able to fully understand and respond to questions very well ▪ The visual aids (slides, props, etc.) were cleverly chosen and presented which improve understanding of the topic. 	<p>Provide at least two (2) from the list below:</p> <ul style="list-style-type: none"> ▪ Able to fully understand and respond to questions very well ▪ The visual aids (slides, props, etc.) were cleverly chosen and presented which improve understanding of the topic. ▪ The content was extremely organized in the delivery of this presentation. 	<p>Provide at least three (3) from the list below:</p> <ul style="list-style-type: none"> ▪ Able to fully understand and respond to questions very well ▪ The visual aids (slides, props, etc.) were cleverly chosen and presented which improve understanding of the topic. ▪ The content was extremely organized in the delivery of this 	<p>Provide ALL from the list below:</p> <ul style="list-style-type: none"> ▪ Able to fully understand and respond to questions very well ▪ The visual aids (slides, props, etc.) were cleverly chosen ▪ presented which improve understanding of the topic. ▪ The content was extremely 	
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Task	1	2	3	4	Marks
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		<ul style="list-style-type: none"> ▪ The content was extremely organized in the delivery of this presentation. Information was presented in a logical, interesting sequence that was easy to follow. ▪ Presenter is very fluent, and voice is easy to be heard clearly 	<p>Information was presented in a logical, interesting sequence that was easy to follow.</p> <ul style="list-style-type: none"> ▪ Presenter is very fluent, and voice is easy to be heard clearly 	<p>presentation. Information was presented in a logical, interesting sequence that was easy to follow.</p> <ul style="list-style-type: none"> ▪ Presenter is very fluent, and voice is easy to be heard clearly 	<p>organized in the delivery of this presentation. Information was presented in a logical, interesting sequence that was easy to follow.</p> <ul style="list-style-type: none"> ▪ Presenter is very fluent, and voice is easy to be heard clearly 	
Total Marks Earned						/52

Task:**1. Describe the project overview (Documentation)****1. Project Name**

- Follow Me

2. Target Audience

- This service caters to local tourists seeking assistance in obtaining information about various tourist destinations within their country. Additionally, it extends its support to individuals interested in acquiring weather updates for different locations featured in the application.

3. Description of the project

- The application primarily focuses on providing tourists with information about various locations available within the app. The app's initial page offers users the option to search for information about a particular place or access weather updates by clicking on the respective buttons. On the Start Travel page, users are presented with a map and instructions, with markers indicating different places. If a user long-presses on a place's marker, they are directed to a separate location page that displays the place's picture, title, and description. The app also features a gallery page where users can navigate through multiple pictures of the place, take pictures themselves, and save them in the gallery. Moving on to weather information, users can search for a specific place by entering its name in the search bar, and upon clicking the search button, the app will display relevant weather information in the result bar.

4. Create your mobile application and include features/components to have a complete set of your design
5. Include the honors software design custom for android application.

Cant publish gallery

Projects

Connect

Build

Settings

Help

Error sending project to the Gallery

My ProjectsView Trash

Start new projectMove To TrashView TrashLogin to GalleryPublish to Gallery

Projects

<input type="checkbox"/>	Name	Date Created	Date Modified
<input checked="" type="checkbox"/>	final_project	Jun 19, 2023, 8:52:05 PM	Jun 26, 2023, 12:56:50 AM
<input type="checkbox"/>	SendDataGoogleSheet	Jun 13, 2023, 9:23:42 AM	Jun 19, 2023, 8:50:47 PM
<input type="checkbox"/>	Google_sheet	Jun 13, 2023, 9:32:32 AM	Jun 13, 2023, 9:39:34 AM
<input type="checkbox"/>	ListPicker	Jun 13, 2023, 8:42:15 AM	Jun 13, 2023, 9:17:29 AM
<input type="checkbox"/>	gps	May 30, 2023, 8:53:18 AM	Jun 13, 2023, 8:41:50 AM
<input type="checkbox"/>	WOWOWOWOWOWO	Jun 6, 2023, 9:34:52 AM	Jun 13, 2023, 8:41:33 AM
<input type="checkbox"/>	FindTheGold_MS_VTemplate	May 15, 2023, 9:02:28 PM	May 30, 2023, 8:53:18 AM
<input type="checkbox"/>	Texting	May 16, 2023, 9:28:51 AM	May 16, 2023, 9:34:48 AM
<input type="checkbox"/>	PPPPROOJECT	May 16, 2023, 9:09:34 AM	May 16, 2023, 9:32:39 AM
<input type="checkbox"/>	AndroidMashStarter_1	May 2, 2023, 10:43:03 AM	May 15, 2023, 9:02:06 PM
<input type="checkbox"/>	Games	May 2, 2023, 10:36:06 AM	May 2, 2023, 10:36:06 AM
<input type="checkbox"/>	canvas	May 2, 2023, 8:44:16 AM	May 2, 2023, 9:53:11 AM
<input type="checkbox"/>	drawing	May 2, 2023, 8:45:56 AM	May 2, 2023, 8:47:08 AM
<input type="checkbox"/>	alphabet	Apr 13, 2023, 8:44:27 AM	May 2, 2023, 8:46:28 AM
<input type="checkbox"/>	Talk_To_Me	Apr 13, 2023, 8:25:57 AM	Apr 13, 2023, 8:43:32 AM

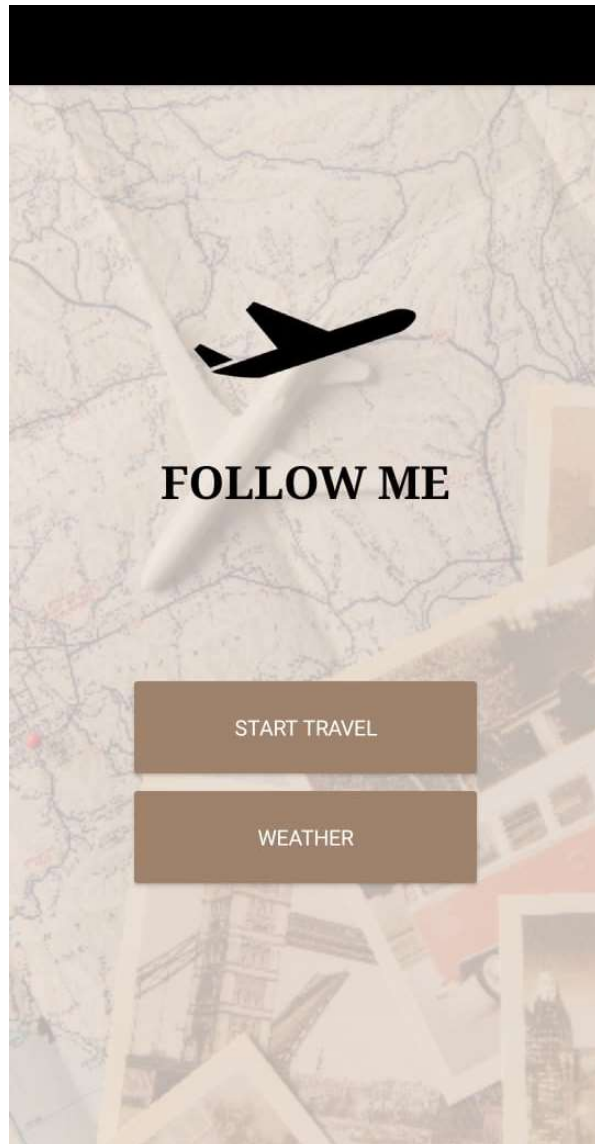
APK LINK

<http://ai2.appinventor.mit.edu/b/3jwo1>

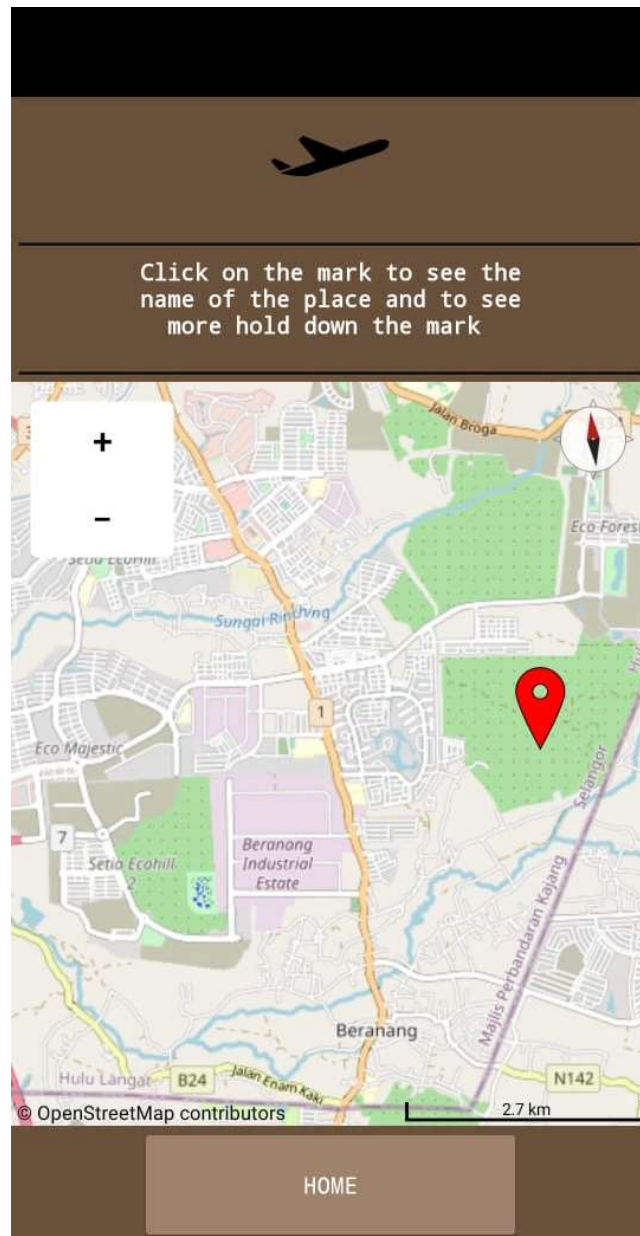
APK QR CODE



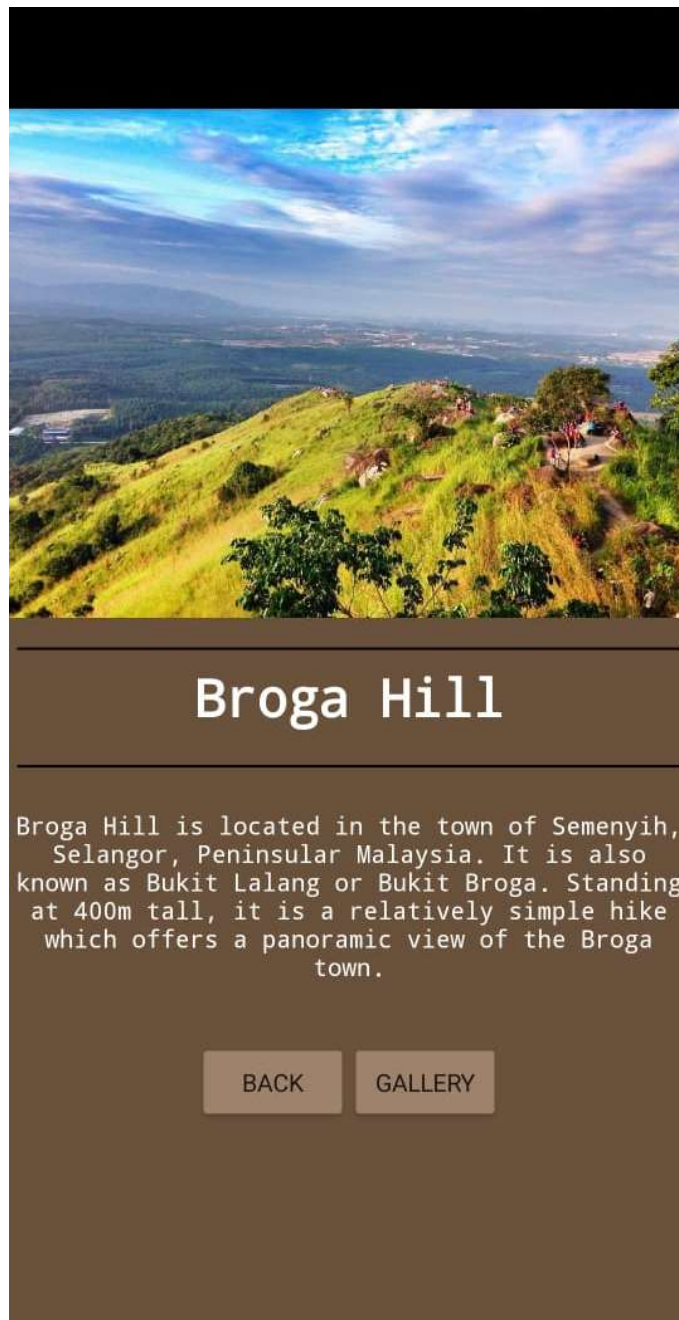
Home page:



Start Travel page:



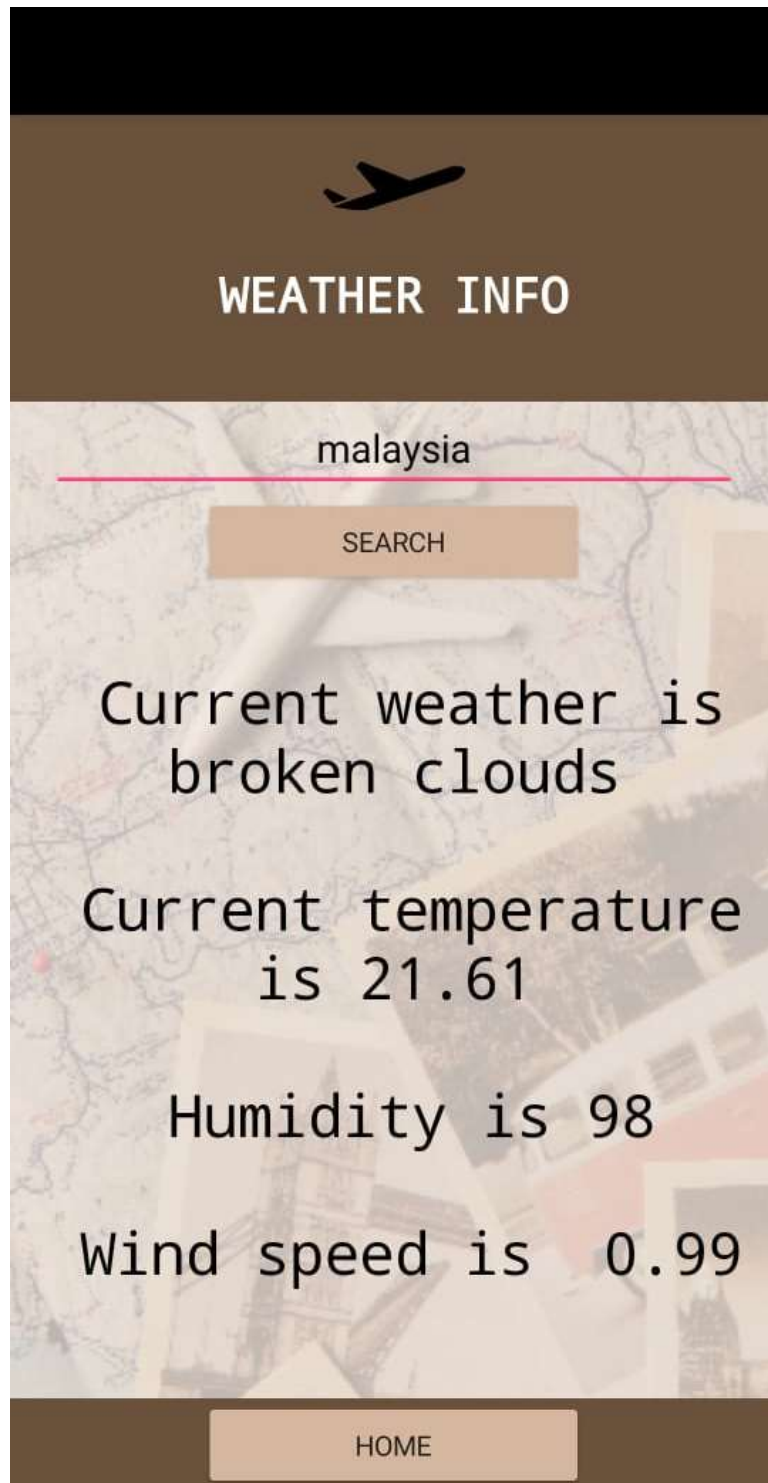
Information page:



Gallery page:

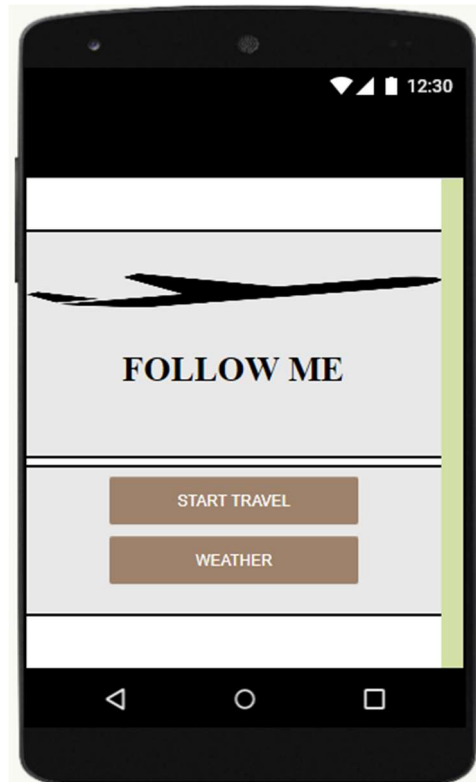


Weather Page:

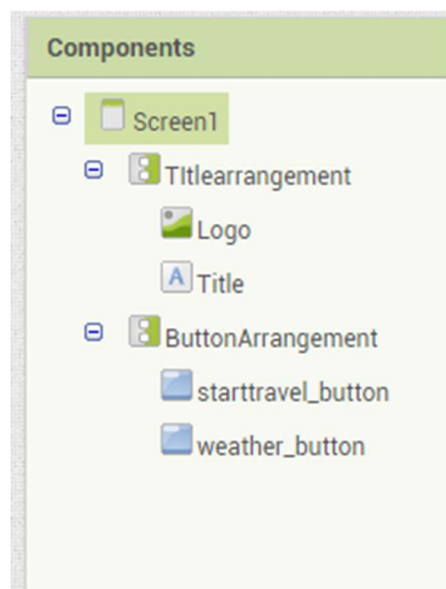


4. Submit a runtime screen capture throughout the application. (Documentation)

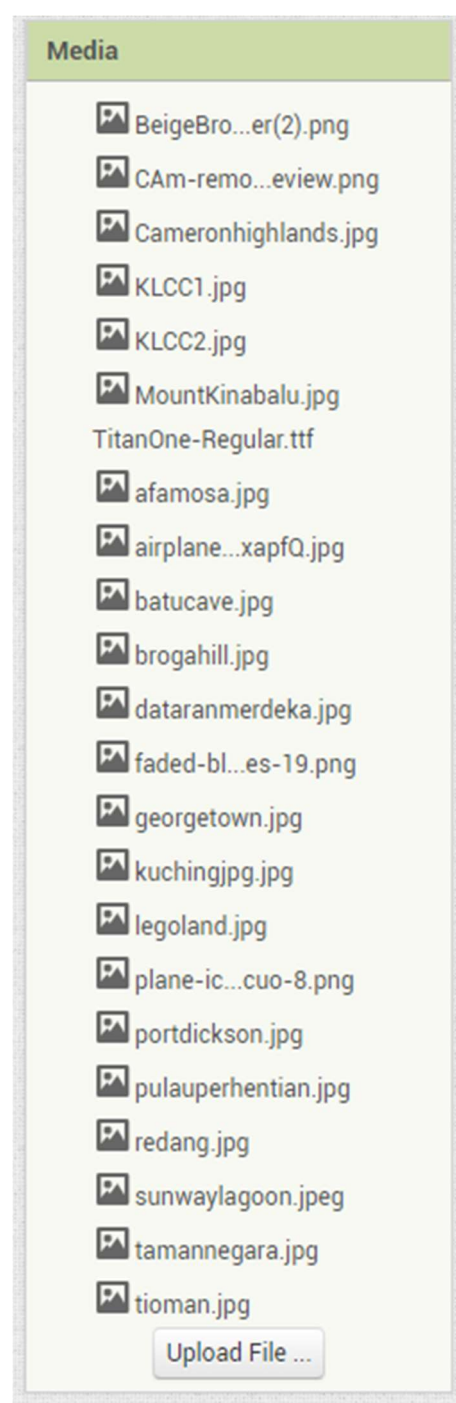
Homepage:



Homepage component:



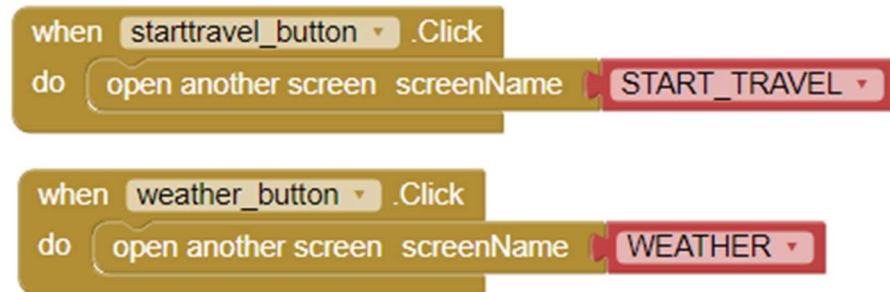
Media in this apps:



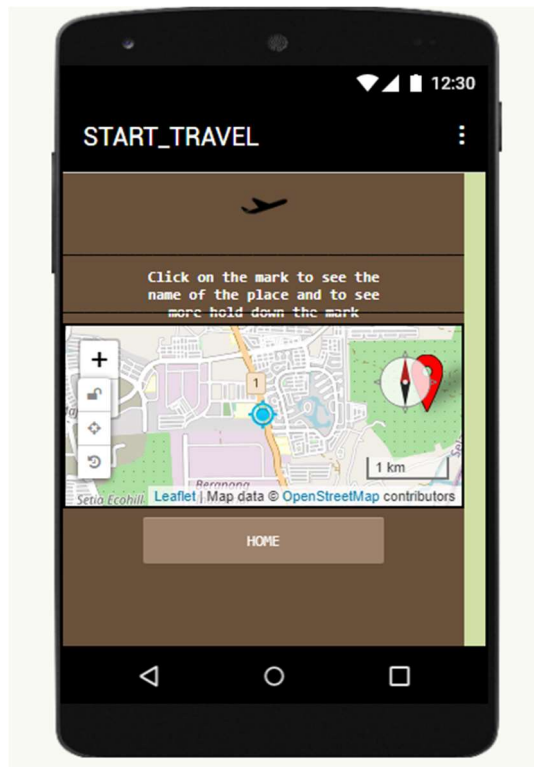
Homepage properties:

Properties	
Screen1	
AboutScreen	<input type="text"/>
AccentColor	<input type="checkbox"/> Default
AlignHorizontal	Center : 3 ▾
AlignVertical	Center : 2 ▾
AppName	<input type="text" value="final_project"/>
BackgroundColor	<input type="checkbox"/> Default
BackgroundImage	<input type="text" value="BeigeBrownCreativeTravelF"/>
BigDefaultText	<input type="checkbox"/>
BlocksToolkit	All ▾
CloseScreenAnimation	Default ▾
DefaultFileScope	App ▾
HighContrast	<input type="checkbox"/>
Icon	<input type="text" value="None..."/>
OpenScreenAnimation	Default ▾
PrimaryColor	<input type="checkbox"/> Black
PrimaryColorDark	<input type="checkbox"/> Black
ScreenOrientation	Portrait ▾
Scrollable	<input type="checkbox"/>
ShowListsAsJson	<input checked="" type="checkbox"/>
ShowStatusBar	<input checked="" type="checkbox"/>
Sizing	Responsive ▾
Theme	Black Title Text ▾
Title	<input type="text" value="Screen1"/>
TitleVisible	<input checked="" type="checkbox"/>
TutorialURL	<input type="text"/>
VersionCode	<input type="text" value="1"/>
VersionName	<input type="text" value="1.0"/>

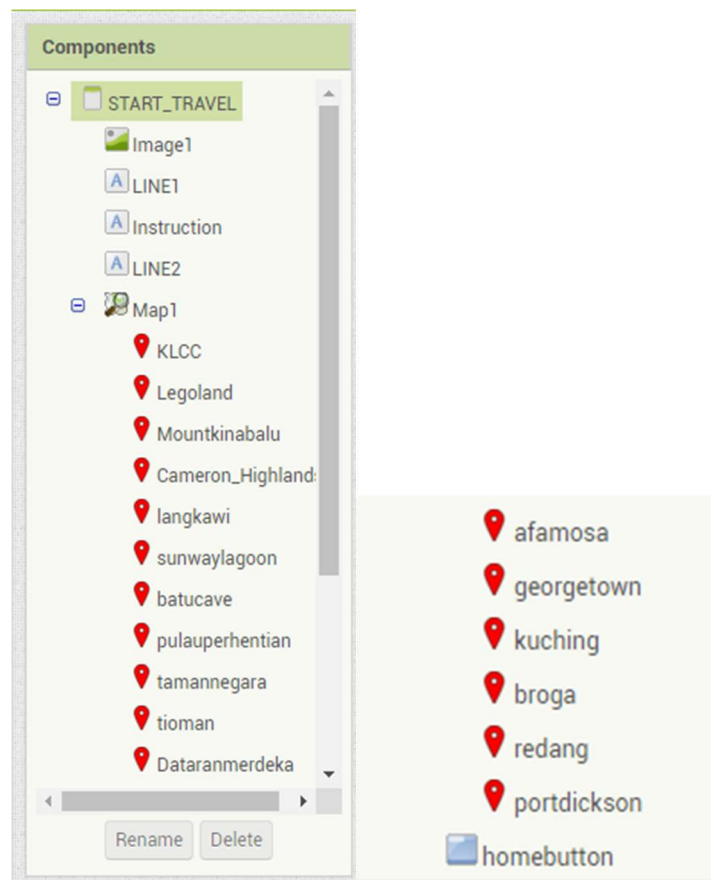
Block of Homepage:



Start Travel page:



Start Travel component:



Start Travel properties:


Properties

START_TRAVEL

AboutScreen

AlignHorizontal
Center : 3 ▾

AlignVertical
Top : 1 ▾

BackgroundColor
 Custom...

BackgroundImage

BigDefaultText
☐

CloseScreenAnimation
Default ▾

HighContrast
☐

OpenScreenAnimation
Fade ▾

ScreenOrientation
Portrait ▾

Scrollable
☒

ShowStatusBar
☒

Title

TitleVisible
☒

Start Travel block:

```
when homebutton .Click  
do open another screen screenName Screen1
```

```
when KLCC .LongClick  
do open another screen with start value screenName "LOCATION"  
startValue "KLCC"
```

```
when Legoland .LongClick  
do open another screen with start value screenName "LOCATION"  
startValue "Lego Land"
```

```
when Mountkinabalu .LongClick  
do open another screen with start value screenName "LOCATION"  
startValue "Mount Kinabalu"
```

```
when Cameron_Highlands .LongClick  
do open another screen with start value screenName "LOCATION"  
startValue "Cameron Highland"
```

```
when sunwaylagoon .LongClick  
do open another screen with start value screenName "LOCATION"  
startValue "Sunway lagoon"
```

```
when batucave .LongClick  
do open another screen with start value screenName "LOCATION"  
startValue "Batu Cave"
```

when **pulauperhentian** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Pulau Perhentian"

when **tamannegara** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Taman Negara"

when **tioman** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Tioman Island"

when **Dataranmerdeka** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Dataran Merdeka"

when **afamosa** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Afamosa"

when **georgetown** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Georgetown"

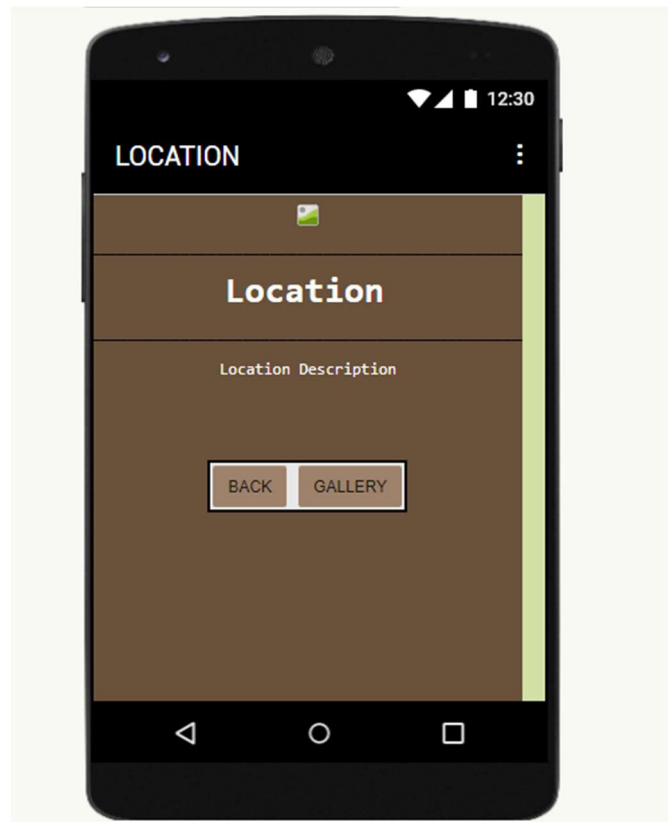
when **kuching** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Kuching"

when **broga** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Broga Hill"

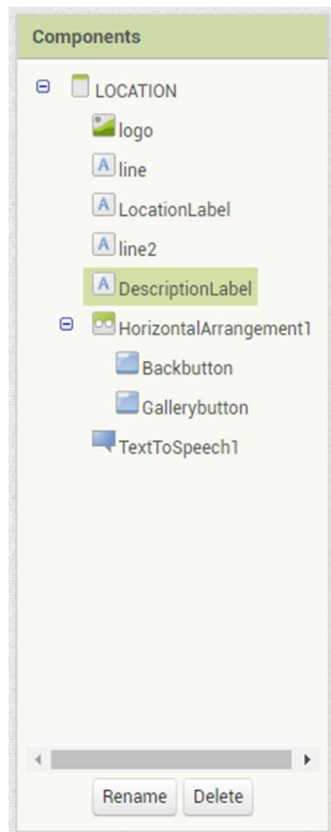
when **redang** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Redang Island"

when **portdickson** .LongClick
do open another screen with start value screenName "LOCATION"
startValue "Port Dickson"

Location page:



Location Component:



Location Properties:

Properties

DescriptionLabel

BackgroundColor

☐ None

FontBold

☐

FontItalic

☐

FontSize

14.0

FontTypeface

monospace...

HTMLFormat

☐

HasMargins

☒

Height

18 percent...

Width

Automatic...

Text

Location Description

TextAlignment

center : 1 ▾

TextColor

☐ White

Visible

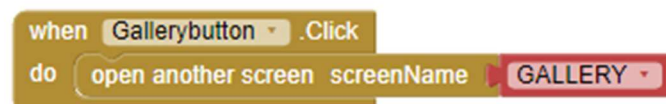
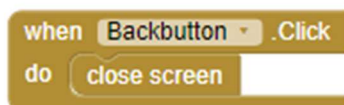
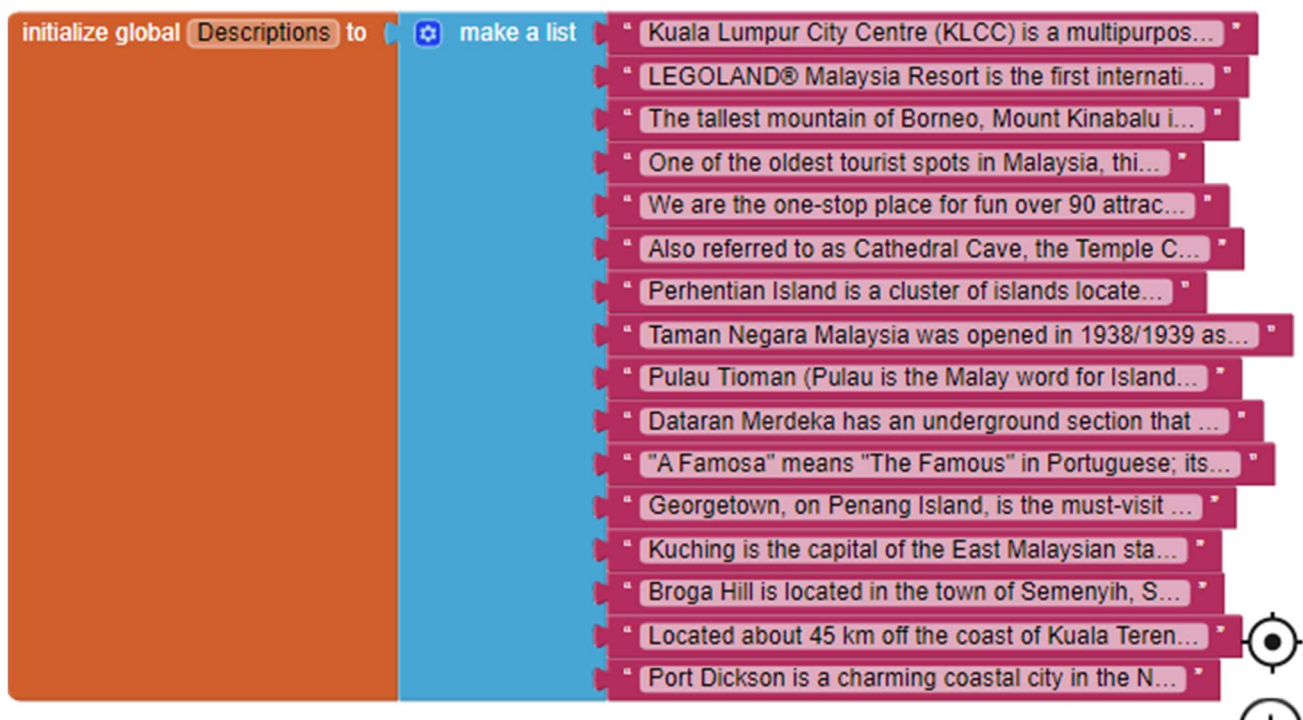
☒

Location Block:



initialize global **locationIndex** to 0

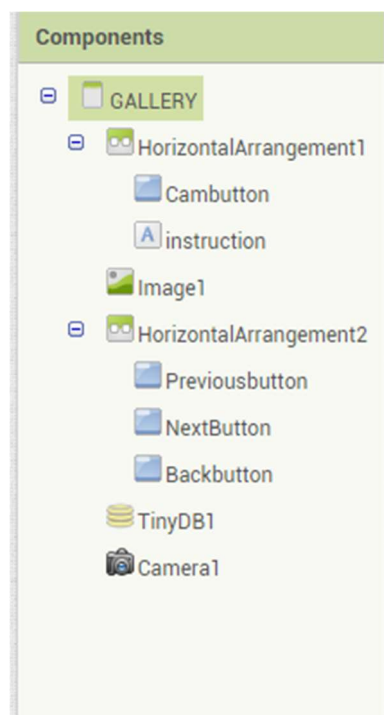




Gallery Page:



Gallery Component:



Gallery Properties:

Properties

GALLERY

AboutScreen

AlignHorizontal
Center : 3 ▾

AlignVertical
Top : 1 ▾

BackgroundColor
 Gray

BackgroundImage

BigDefaultText
☐

CloseScreenAnimation
Default ▾

HighContrast
☐

OpenScreenAnimation
Default ▾

ScreenOrientation
Portrait ▾

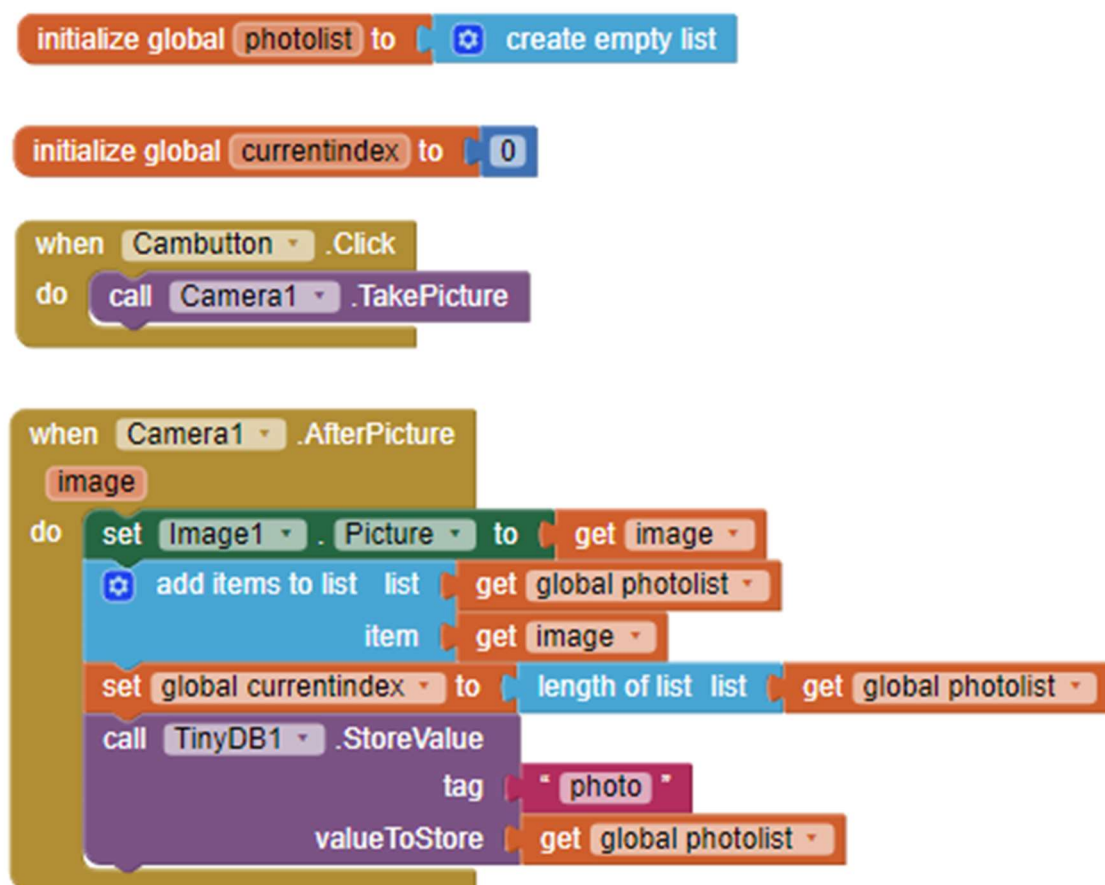
Scrollable
☒

ShowStatusBar
☒

Title

TitleVisible
☒

Gallery Block:



```

when GALLERY.Initialize
do
  set global currentindex to 0
  set global photolist to call TinyDB1.GetValue
                                tag "photolist"
                                valueIfTagNotThere create empty list
  if not is list empty? list get global photolist
  then
    set global currentindex to 1
    set Image1.Picture to select list item list get global photolist
                                index get global currentindex

```

```

when Previousbutton.Click
do
  if get global currentindex > 1
  then
    set global currentindex to get global currentindex - 1
    set Image1.Picture to select list item list get global photolist
                                index get global currentindex

```

```

when NextButton.Click
do
  if get global currentindex < length of list list get global photolist
  then
    set global currentindex to get global currentindex + 1
    set Image1.Picture to select list item list get global photolist
                                index get global currentindex

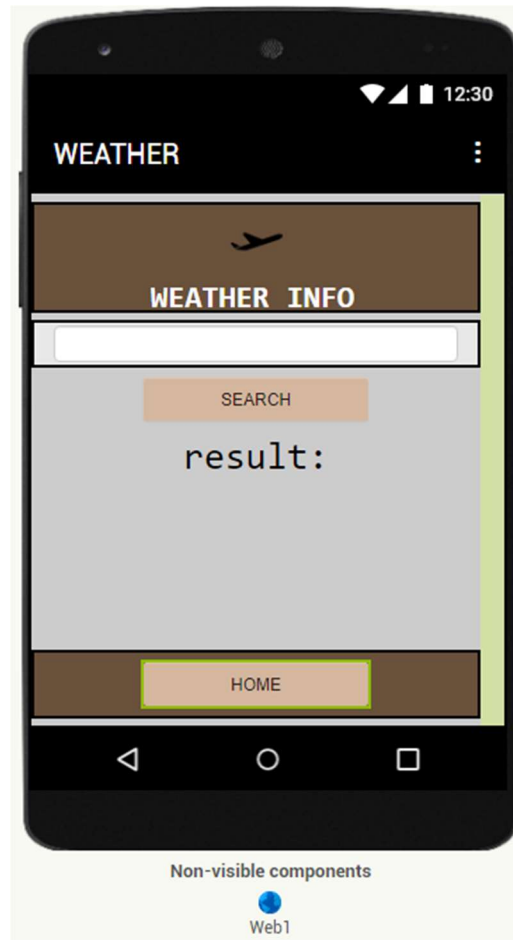
```

```

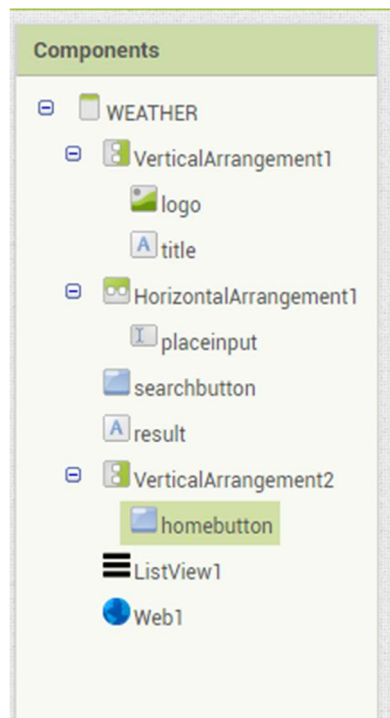
when Backbutton.Click
do
  open another screen screenName START_TRAVEL

```

Weather Page:



Weather Component:




Weather Properties:

Properties

homebutton

BackgroundColor

 Custom...

Enabled

☒

FontBold

☐

FontItalic

☐

FontSize

FontTypeface

Height

Width

Image

Shape


ShowFeedback

☒

Text

TextAlignment

TextColor

 Default

Visible

☒

Weather Block:

initialize global weather to " "

initialize global APIkey to " 379b7d1942ddd9b345286be5037fa277 "

when searchbutton .Click
do
set Web1 . Url to join (" https://api.openweathermap.org/data/2.5/weather?q= "
placeinput . Text
&units=metric&appid= "
get global APIkey
call Web1 .Get

when Web1 .GotText
url responseCode responseType responseContent
do
set global weather to call Web1 .JsonTextDecodeWithDictionaries
jsonText get responseContent
set ListView1 . Elements to get global weather
if
get value for key " weather " ≠ " not found "
in dictionary get global weather
or if not found " not found "
then
set result . Text to join (" \n Current weather is "
get value for key " description "
in dictionary select list item list get value for key " weather "
in dictionary get global weather
or if not found " not found "
index 1
" \n "

