

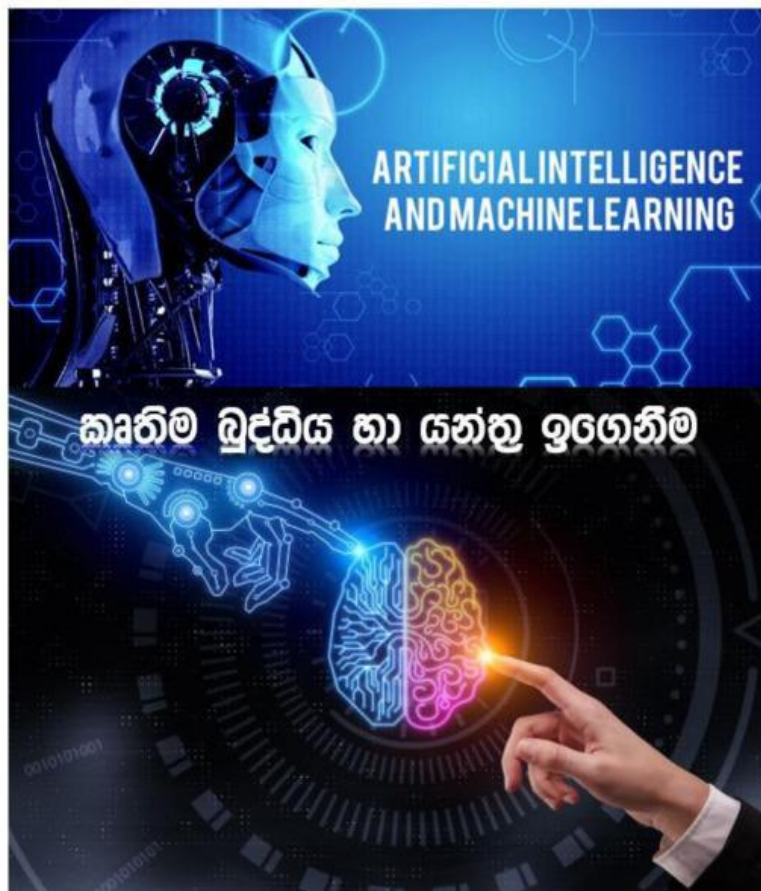
Project 166



**Coding
School**



AI and Machine Learning

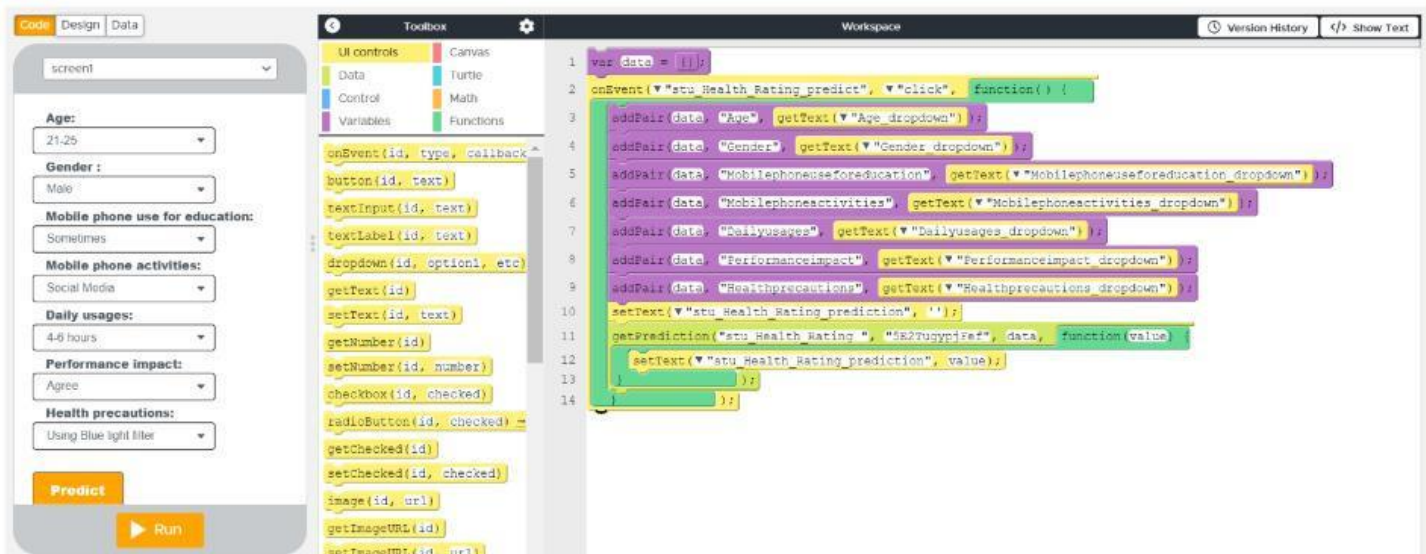


Start here

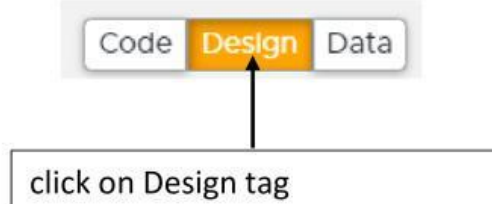
- ❖ Let's prepare the 166th project using the stu_Health_Rating model prepared to monitor the health rating prepared by the 165th project.
- ❖ In this project, the stu_Health_Rating model has been imported into the app lab and provided.
- ❖ Let's do this project using the link below..

https://studio.code.org/projects/applab/fOD_es74AYhEITrKyGa7Fw0OniK_WYVTDWC7FzuPqvjM

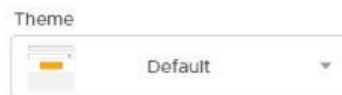
- ❖ When you click on that link, you will go to the App lab of code.org. Then you will see how the stu_Health_Rating model has been imported into the app lab as follows.



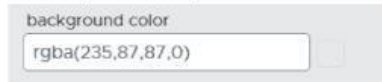
- ❖ Let us now prepare an app related to monitoring the health rating using the AI model.
- ❖ Here we have imported the AI model and given it. Now let's design and improve the app after importing the AI model.
- ❖ First of all let's design this App by clicking on the Design tag.



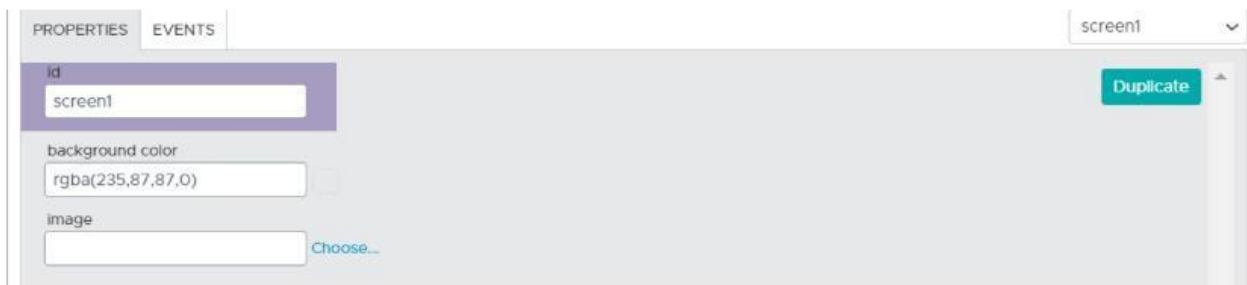
- ❖ Let's add a theme to this app first. For that click on default and select a theme of your choice. Here let's select the ketchup and mustard theme



- ❖ Then below you have got a theme with background color red, label dark red and dropdown yellow. Here select white color for background colour.



- ❖ Then you click on Duplicate in Screen1 and get another screen like screen1.



- ❖ Let's adjust the X,Y values of the label and input that appear on Screen1 as follows by changing the values given for width and height accordingly.



- ❖ First of all let's see how to change the X,Y values width and height of Age_label. Give the corresponding values for x y and width height and font size shown in the properties of Age_label as below.

- ❖ Give the following values for the remaining labels and dropdowns.

The following table summarizes the values set in each properties panel shown in the image:

Element ID	Text	Width (px)	Height (px)	X Position (px)	Y Position (px)	Text Color	Background Color	Font Family	Font Size (px)
Age_label	Age:	240	23	15	37	rgb(255, 255, 255)	rgb(165, 61, 61)	Georgia	15
Age_dropdown	Options: 21-25, 16-20	200	28	30	62	rgb(25, 58, 85)	rgb(249, 221, 84)	Georgia	-
Gender_label	Gender :	240	23	15	101	rgb(255, 255, 255)	rgb(165, 61, 61)	Georgia	15
Gender_dropdown	Options: Male, Female	200	28	30	126	rgb(25, 58, 85)	rgb(249, 221, 84)	Georgia	-
Mobilephoneuseforeducation_label	Mobile phone use for education	240	35	15	162	rgb(255, 255, 255)	rgb(165, 61, 61)	Georgia	15
Mobilephoneuseforeducation_dropdown	Options: Sometimes, Frequently	200	28	30	199	rgb(25, 58, 85)	rgb(249, 221, 84)	Georgia	-
Mobilephoneactivities_label	Mobile phone activities:	240	28	15	239	rgb(255, 255, 255)	rgb(165, 61, 61)	Georgia	15
Mobilephoneactivities_dropdown	Options: Social Media, All of these	200	28	30	268	rgb(25, 58, 85)	rgb(249, 221, 84)	Georgia	-
Dailyusages_label	Daily usages:	240	28	15	305	rgb(255, 255, 255)	rgb(165, 61, 61)	Georgia	14

id
Dailyusages_dropdown

options
4-6 hours
> 6 hours

index
0

width (px)
200

height (px)
28

x position (px)
30

y position (px)
335

text color
rgb(25, 58, 85)

background color
rgb(249, 221, 84)

font family
Georgia

- ❖ Let's delete the two labels given text as Performance impact: and Health precautions: and the two dropdowns that have the answers related to those two labels from the screen1 screen.
- ❖ For that, click on the relevant label or dropdown and click on the delete button.

id
PerformanceImpact_label

text
Performance Impact:

width (px)
300

height (px)
18

x position (px)
20

Delete

Duplicate

click on delete button

- ❖ Then add a button on the bottom right corner of this screen. Add white color for its background color. Add it as next_bnt for the id. Add 85 px for width and height. For properties, give the values shown in the diagram below.

id
next_btn

text

width (px)
85

height (px)
85

x position (px)
185

y position (px)
365

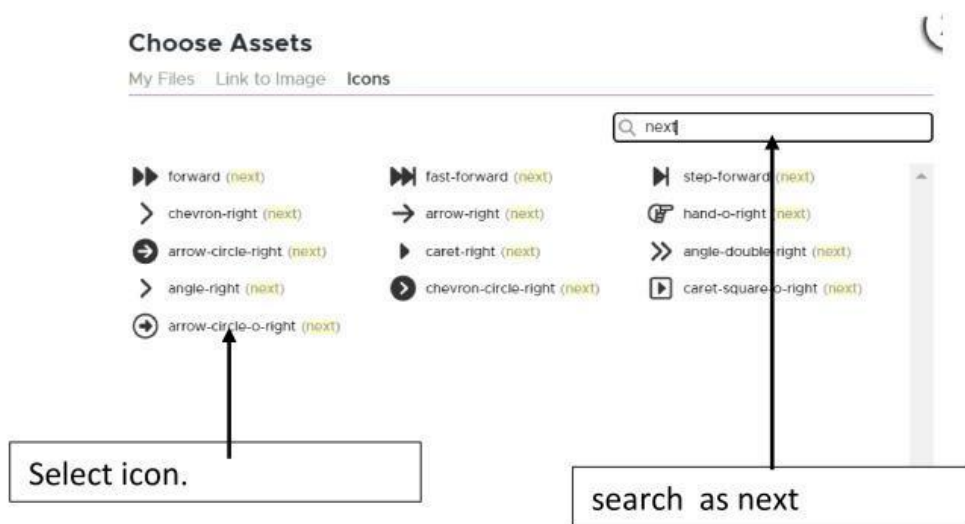
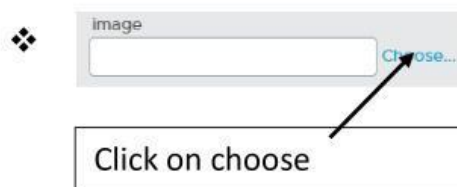
text color
rgb(25, 58, 85)

background color
rgba(127, 120, 85, 0)

font family
Georgia

font size (px)
15

- ❖ Let's add an icon for the button's image. Click on choose in front of the image. Then click on the icon shown there. Then select an icon by searching next in the search bar shown on that screen.



- ❖ Then as follows. Set up a label giving values for the properties. Give the text of this label as Health Rating App.

id: label_health

text: Health Rating App

width (px): 210

height (px): 25

x position (px): 55

y position (px): 4

text color: rgb(165, 61, 61)

background color: rgba(165, 61, 61, 0)

font family: Georgia

font size (px): 20

- ❖ Now you will see the design on screen1 as below.

screen1

Health Rating App

Age: 21-25

Gender: Male

Mobile phone use for education: Sometimes

Mobile phone activities: Social Media

Daily usages: 4-6 hours

Run

- ❖ Now let's design the screen2 that we duplicated at the beginning. Select screen2 for that.
- ❖ Remove the label that contains the text Age: Gender: Mobile phone use for education: Mobile phone activities: Daily usages: and the dropdown containing the answers to those labels shown in screen2.
- ❖ Then let's prepare the design for the two labels given the text as Performance impact: and Health precautions: and the two dropdowns that have the answers related to those two labels as follows.

id: PerformanceImpact_label

text: Performance impact:

width (px): 240

height (px): 23

x position (px): 15

y position (px): 16

text color: rgb(255, 255, 255)

background color: rgb(165, 61, 61)

font family: Georgia

font size (px): 16

- ❖ Performance impact: Design as follows for the label that includes the text.
- ❖ Perform the design as below for the dropdown with answers related to the label that includes the text as Performance impact: Note the ID of that dropdown as Performanceimpact_dropdown.

- ❖ Make the design as follows for the label that includes the text Health precautions:

id: Healthprecautions_label

text: Health precautions:

width (px): 240

height (px): 23

x position (px): 15

y position (px): 82

text color: rgb(255, 255, 255)

background color: rgb(165, 61, 61)

font family: Georgia

font size (px): 15

id: Performanceimpact_dropdown

options: Agree, Neutral

index: 0

width (px): 200

height (px): 30

x position (px): 30

y position (px): 42

text color: rgb(25, 58, 85)

background color: rgb(249, 221, 84)

font family: Georgia

- ❖ Make the design as below for the dropdown with answers related to the label containing the text as Health precautions: Note the ID of the dropdown as Healthprecautions_dropdown.

- ❖ Let's add an id as stu_Health_Rating_predict to the button used for predicting. For that let's prepare the design as below.

PROPERTIES EVENTS

id: stu_Health_Rating_predict

text: Predict

width (px): 100

height (px): 40

x position (px): 10

y position (px): 184

text color: rgb(25, 58, 85)

background color: rgb(249, 221, 84)

font family: Georgia

font size (px): 18

id: Healthprecautions_dropdown

options: Using Blue light filter, Taking Break during

index: 0

width (px): 200

height (px): 28

x position (px): 30

y position (px): 114

text color: rgb(25, 58, 85)

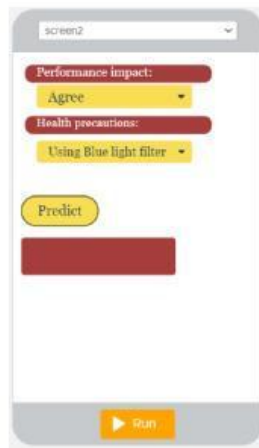
background color: rgb(249, 221, 84)

font family: Georgia

- ❖ Add the id as stu_Health_Rating_prediction to the label added to display the result when predicted. Make the design here as follows.



- ❖ Make the design related to Screen2 as follows.



- ❖ Now let's prepare the code related to the app that we have designed like this. For that, first click on the code. When you click on next_bnt, prepare the code as follows to move to screen2. Add the following code set to the 16th line.

```
onEvent (▼ "next_bnt", ▼ "click", function () {
  setScreen (▼ "screen2");
});
```

- ❖ Now run the app you have prepared.