

# Project 166



**Coding  
School**



## AI and Machine Learning

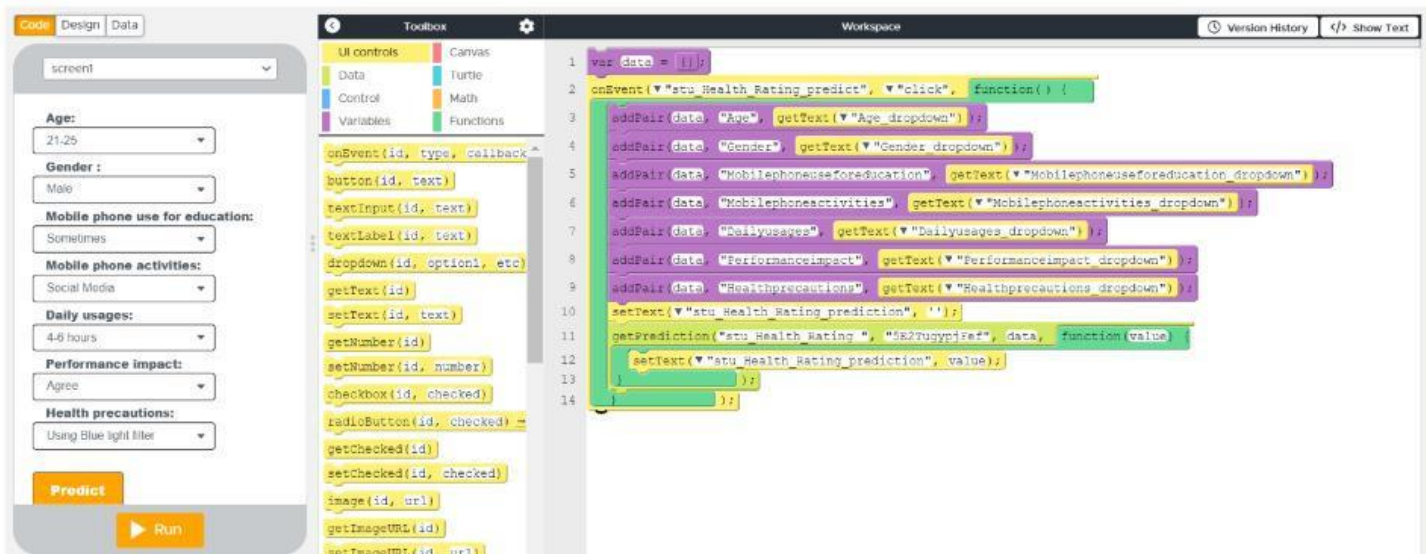


**Start here**

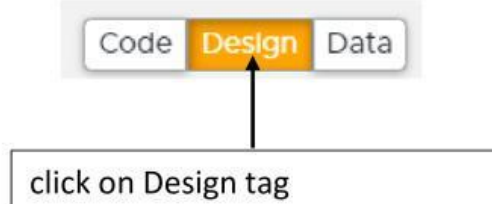
- ❖ Let's prepare the 166th project using the stu\_Health\_Rating model prepared to monitor the health rating prepared by the 165th project.
- ❖ In this project, the stu\_Health\_Rating model has been imported into the app lab and provided.
- ❖ Let's do this project using the link below..

[https://studio.code.org/projects/applab/fOD\\_es74AYhEITrKyGa7Fw0OniK\\_WYVTDWC7FzuPqvjM](https://studio.code.org/projects/applab/fOD_es74AYhEITrKyGa7Fw0OniK_WYVTDWC7FzuPqvjM)

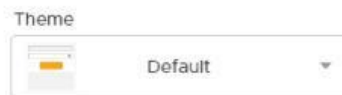
- ❖ When you click on that link, you will go to the App lab of code.org. Then you will see how the stu\_Health\_Rating model has been imported into the app lab as follows.



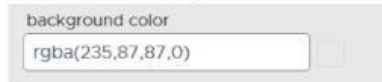
- ❖ Let us now prepare an app related to monitoring the health rating using the AI model.
- ❖ Here we have imported the AI model and given it. Now let's design and improve the app after importing the AI model.
- ❖ First of all let's design this App by clicking on the Design tag.



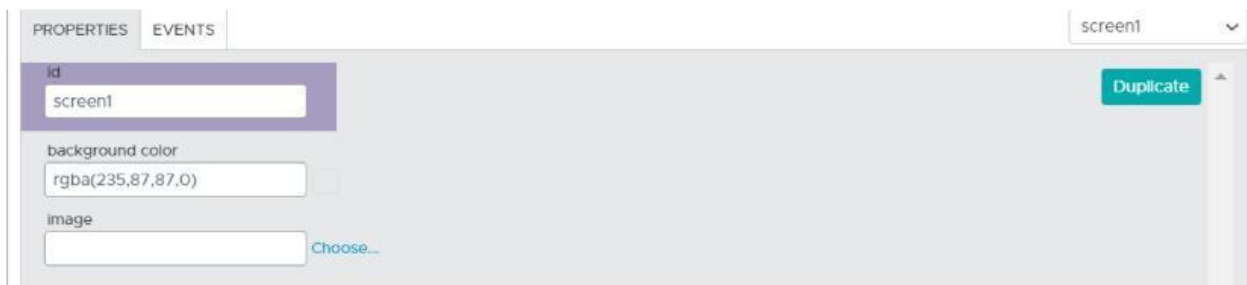
- ❖ Let's add a theme to this app first. For that click on default and select a theme of your choice. Here let's select the ketchup and mustard theme



- ❖ 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.

PROPERTIES EVENTS

**id**  
Age\_label

text  
Age:

width (px)  
240

height (px)  
23

x position (px)  
15

y position (px)  
37

text color  
rgb(255, 255, 255)

background color  
rgb(165, 61, 61)

font family  
Georgia

font size (px)  
16

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

**id**  
Age\_dropdown

options  
21-25  
16-20

index  
0

width (px)  
200

height (px)  
28

x position (px)  
30

y position (px)  
62

text color  
rgb(25, 58, 85)

background color  
rgb(249, 221, 84)

font family  
Georgia

**id**  
Gender\_label

text  
Gender :

width (px)  
240

height (px)  
23

x position (px)  
15

y position (px)  
101

text color  
rgb(255, 255, 255)

background color  
rgb(165, 61, 61)

font family  
Georgia

font size (px)  
15

**id**  
Gender\_dropdown

options  
Male  
Female

index  
0

width (px)  
200

height (px)  
28

x position (px)  
30

y position (px)  
126

text color  
rgb(25, 58, 85)

background color  
rgb(249, 221, 84)

font family  
Georgia

**id**  
Mobilephoneuseforeducation\_

text  
Mobile phone use for education

width (px)  
240

height (px)  
35

x position (px)  
15

y position (px)  
162

text color  
rgb(255, 255, 255)

background color  
rgb(165, 61, 61)

font family  
Georgia

font size (px)  
15

**id**  
Mobilephoneuseforeducation\_

options  
Sometimes  
Frequently

index  
0

width (px)  
200

height (px)  
28

x position (px)  
30

y position (px)  
199

text color  
rgb(25, 58, 85)

background color  
rgb(249, 221, 84)

font family  
Georgia

**id**  
Mobilephoneactivities\_label

text  
Mobile phone activities:

width (px)  
240

height (px)  
28

x position (px)  
15

y position (px)  
239

text color  
rgb(255, 255, 255)

background color  
rgb(165, 61, 61)

font family  
Georgia

font size (px)  
15

**id**  
Mobilephoneactivities\_dropdown

options  
Social Media  
All of these

index  
0

width (px)  
200

height (px)  
28

x position (px)  
30

y position (px)  
268

text color  
rgb(25, 58, 85)

background color  
rgb(249, 221, 84)

font family  
Georgia

**id**  
Dailyusages\_label

text  
Daily usages:

width (px)  
240

height (px)  
28

x position (px)  
15

y position (px)  
305

text color  
rgb(255, 255, 255)

background color  
rgb(165, 61, 61)

font family  
Georgia

font size (px)  
14

text alignment

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

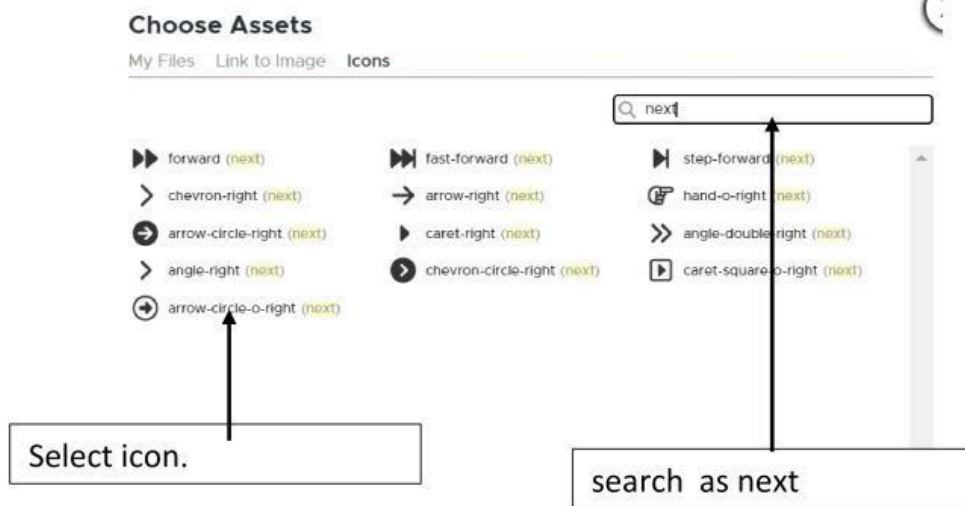
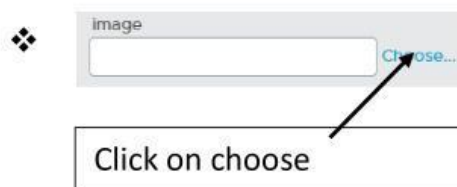
text color  
rgb(25, 58, 85)

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.

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 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

- ❖ 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.

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

- ❖ 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): 114

text color: rgb(25, 58, 85)

background color: rgb(249, 221, 84)

font family: Georgia

font size (px): 18



- ❖ 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.