

Project 166



Coding School



AI and Machine Learning

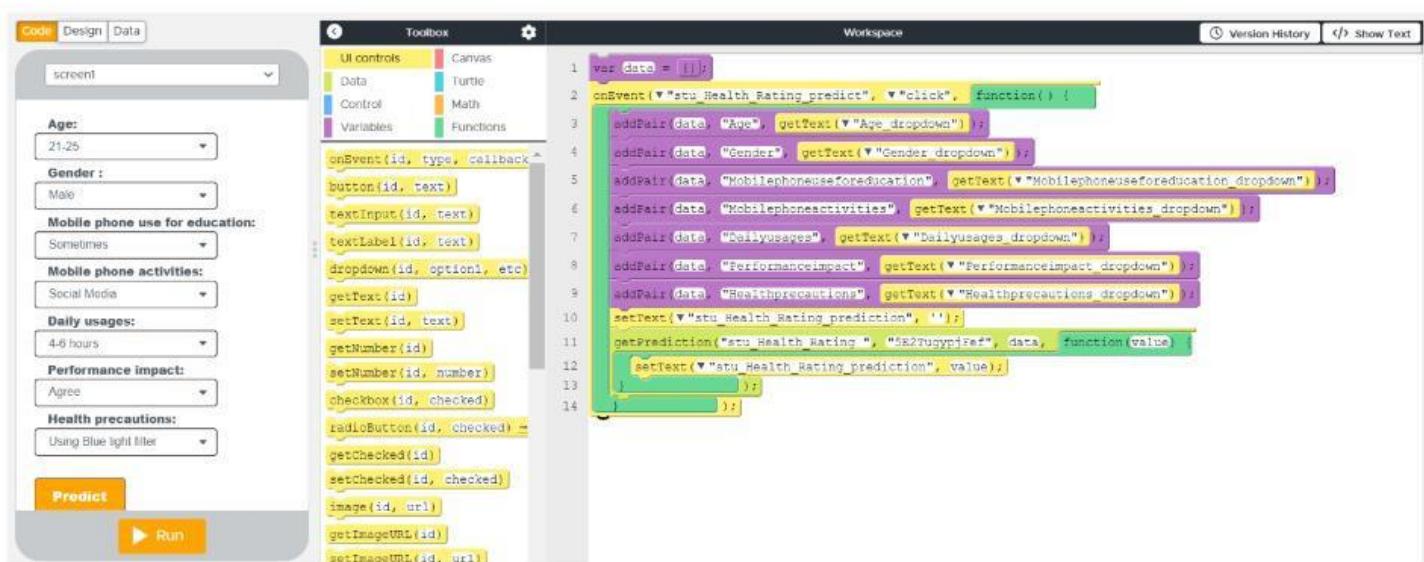


Start here

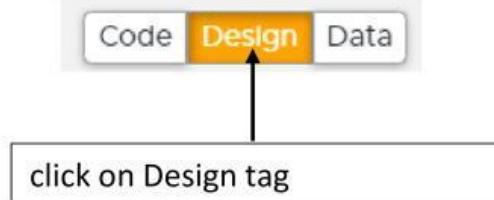
- ❖ Let's prepare the 166th project using the stu_Health_Rating model prepared to monitor the health rating prepared by the 165th project.
- ❖ In this project, the stu_Health_Rating model has been imported into the app lab and provided.
- ❖ Let's do this project using the link below..

https://studio.code.org/projects/applab/fOD_es74AYhElTrKyGa7Fw0OniKWYVTDWC7FzuPqvjM

- ❖ 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.



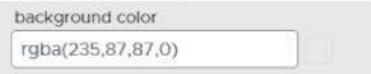
- ❖ Let us now prepare an app related to monitoring the health rating using the AI model.
- ❖ Here we have imported the AI model and given it. Now let's design and improve the app after importing the AI model.
- ❖ First of all let's design this App by clicking on the Design tag.



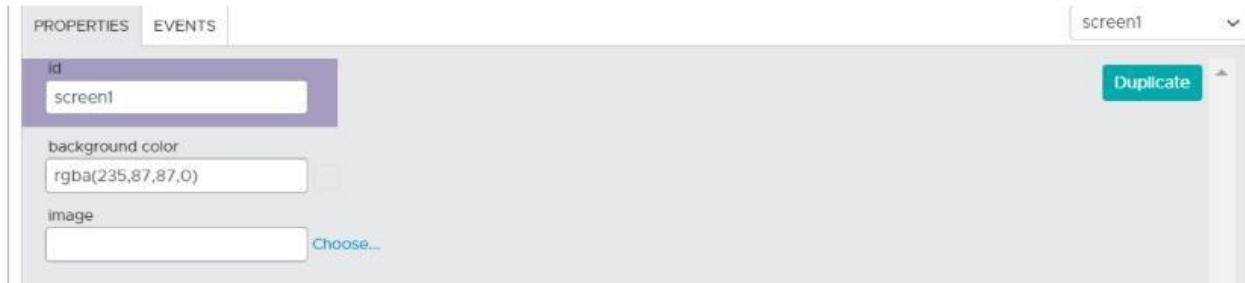
- ❖ Let's add a theme to this app first. For that click on default and select a theme of your choice. Here let's select the ketchup and mustard theme



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



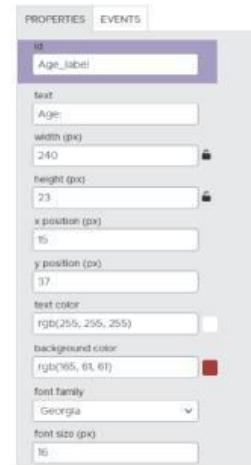
- ❖ Then you click on Duplicate in Screen1 and get another screen like screen1.



- ❖ 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.

<p>Age_dropdown</p> <p>options: 21-25 16-20</p> <p>index: 0</p> <p>width (px): 200</p> <p>height (px): 28</p> <p>x position (px): 30</p> <p>y position (px): 62</p> <p>text color: #588520</p> <p>background color: #842121</p> <p>font family: Georgia</p>	<p>Gender_label</p> <p>text: Gender:</p> <p>width (px): 240</p> <p>height (px): 23</p> <p>x position (px): 15</p> <p>y position (px): 101</p> <p>text color: #fff</p> <p>background color: #666</p> <p>font family: Georgia</p> <p>font size (px): 15</p>	<p>Gender_dropdown</p> <p>options: Male Female</p> <p>index: 0</p> <p>width (px): 200</p> <p>height (px): 28</p> <p>x position (px): 30</p> <p>y position (px): 126</p> <p>text color: #588520</p> <p>background color: #842121</p> <p>font family: Georgia</p> <p>font size (px): 15</p>	<p>Mobilephoneuseforeducation_label</p> <p>text: Mobile phone use for education:</p> <p>width (px): 240</p> <p>height (px): 35</p> <p>x position (px): 15</p> <p>y position (px): 162</p> <p>text color: #fff</p> <p>background color: #666</p> <p>font family: Georgia</p> <p>font size (px): 15</p>
<p>Mobilephoneuseforeducation_dropdown</p> <p>options: Sometimes Frequently</p> <p>index: 0</p> <p>width (px): 200</p> <p>height (px): 28</p> <p>x position (px): 30</p> <p>y position (px): 199</p> <p>text color: #588520</p> <p>background color: #842121</p> <p>font family: Georgia</p>	<p>Mobilephoneactivities_label</p> <p>text: Mobile phone activities:</p> <p>width (px): 240</p> <p>height (px): 28</p> <p>x position (px): 15</p> <p>y position (px): 239</p> <p>text color: #fff</p> <p>background color: #666</p> <p>font family: Georgia</p> <p>font size (px): 15</p>	<p>Mobilephoneactivities_dropdown</p> <p>options: Social Media All of these</p> <p>index: 0</p> <p>width (px): 200</p> <p>height (px): 28</p> <p>x position (px): 30</p> <p>y position (px): 268</p> <p>text color: #588520</p> <p>background color: #842121</p> <p>font family: Georgia</p> <p>font size (px): 15</p>	<p>Dailyusages_label</p> <p>text: Daily usages:</p> <p>width (px): 240</p> <p>height (px): 28</p> <p>x position (px): 15</p> <p>y position (px): 305</p> <p>text color: #fff</p> <p>background color: #666</p> <p>font family: Georgia</p> <p>font size (px): 14</p>

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

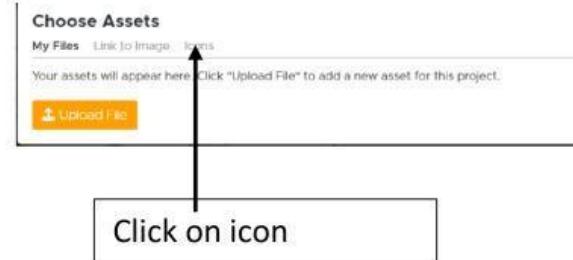
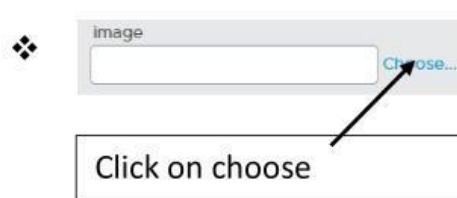
- ❖ Let's delete the two labels given text as Performance impact: and Health precautions: and the two dropdowns that have the answers related to those two labels from the screen1 screen.
- ❖ For that, click on the relevant label or dropdown and click on the delete button.



- ❖ 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_bnt
text	<input type="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.



Choose Assets

My Files Link to Image Icons

<input type="text" value="next"/>		
▶ forward (next)	▶ fast-forward (next)	▶ step-forward (next)
➢ chevron-right (next)	→ arrow-right (next)	➡ hand-o-right (next)
➔ arrow-circle-right (next)	▶ caret-right (next)	➢ angle-double-right (next)
➢ angle-right (next)	▶ chevron-circle-right (next)	▶ caret-square-o-right (next)
⊕ arrow-circle-o-right (next)		

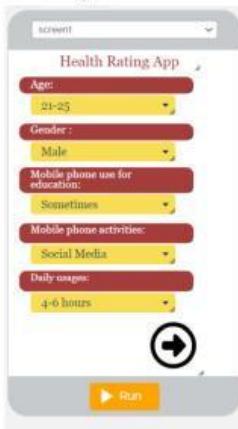
Select icon.

search as next

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



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



- ❖ 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.



- ❖ 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.

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)

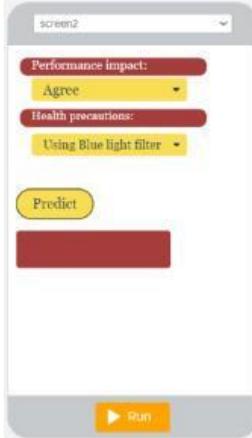
background color
rgb(249, 221, 84)

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.