Project 170

Coding School

DP EDUCATION

i70

AI and Machine Learning

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

කෘතිම බුද්ධිය හා යන්තු ඉගෙනීම

See the web page   **Start here**

❖ Here, using the machine learning modal we created in homework 169, let's create a mobile app to predict the rental price of apartments by app lab.

❖ Let's create the mobile app as follows.
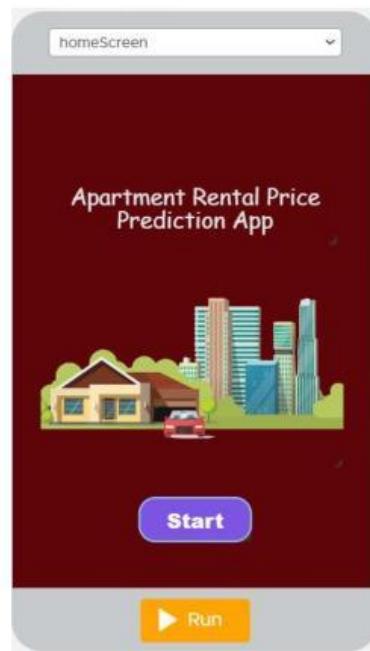
❖ First, import the "apartmentRentPriceModel" model you created for the app lab.

❖ Click on the setting button in the toolbox and click on Manage AI models.
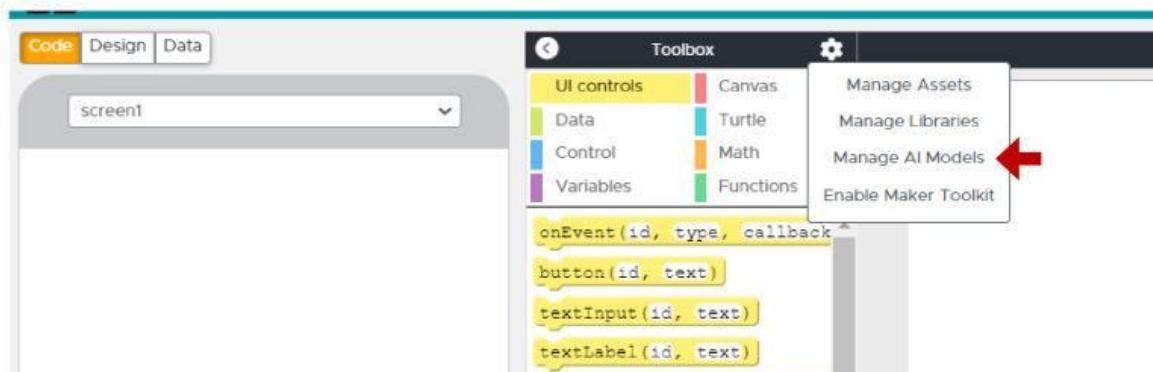
❖ Now select the "apartmentRentPriceModel" model and click on the import button.

AI Trained Models

apartmentRentPriceModel

Import   Delete

apartmentRentPriceModel

Id: OVPkHkYllwV8

Accuracy

98.23%

Intended Use

Warnings and Limitations

About the Data

Dataset size: 1124 rows

Features and Label

Predict Price based on Bedroom, Bathroom, Den, Lat, Long.

Label

Price
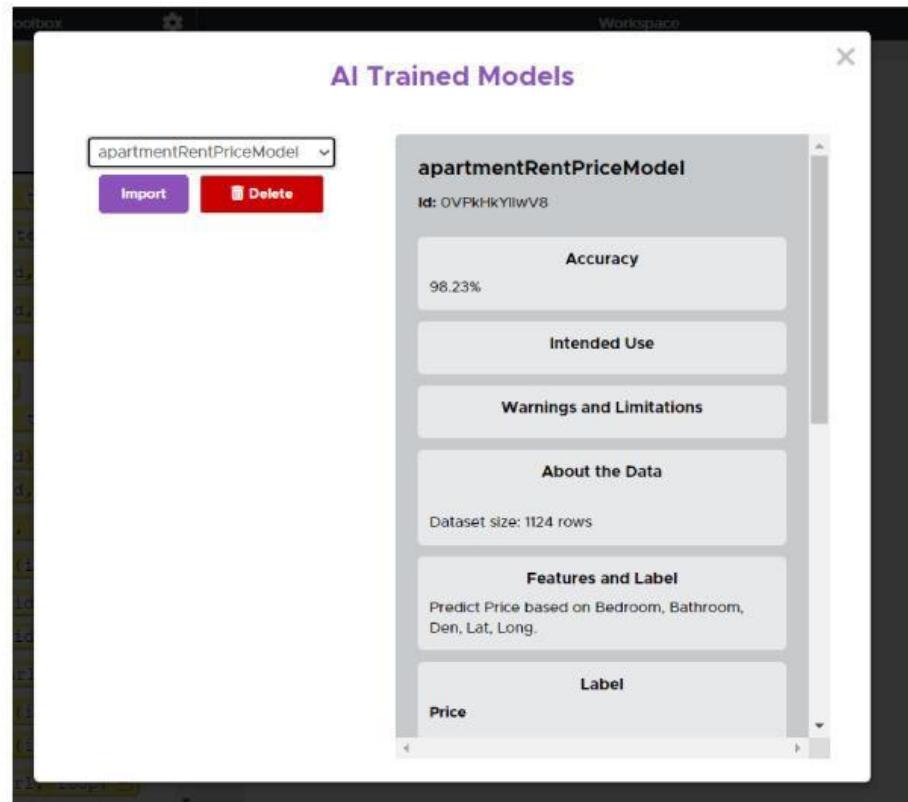
❖ Then the model is imported for the app lab as follows
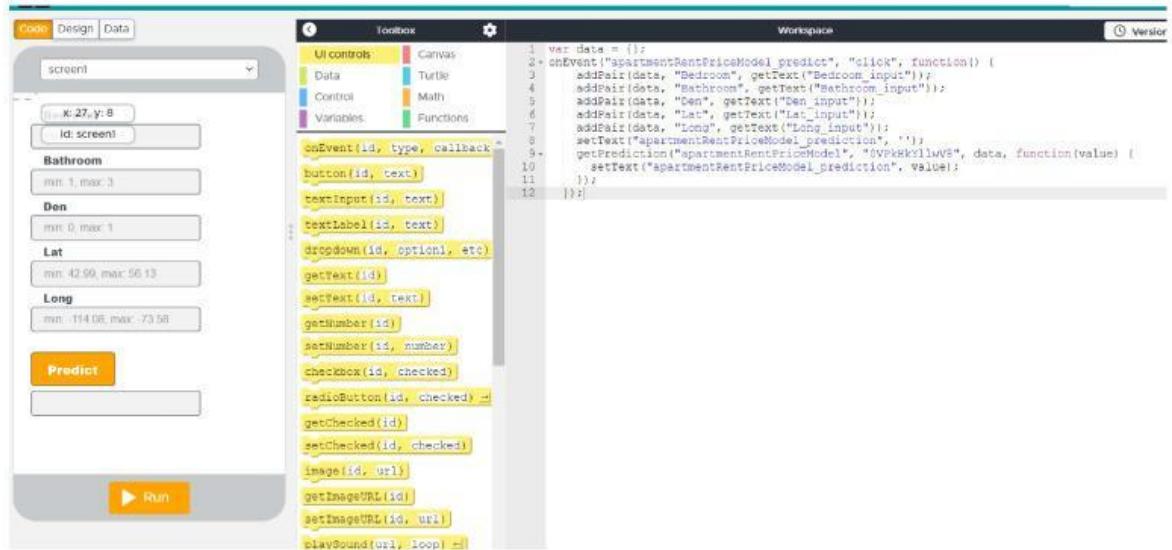
❖ Now let's add a home screen for this app.

❖ Set the id of that screen as "homeScreen" and the following background color and make that screen the default screen. For that, click on the Make Default button.

PROPERTIES   EVENTS

id
homeScreen

background color
#5d0508

image
                    Choose...

Make Default
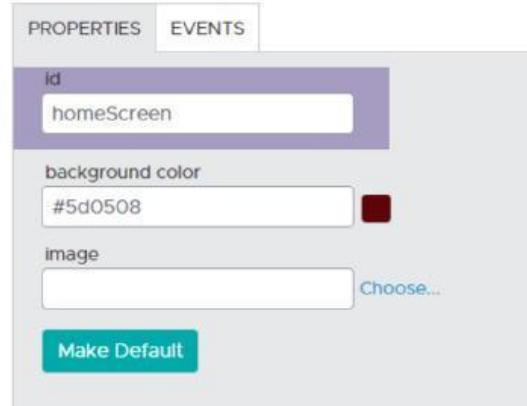
❖ Now add an image tag for the homeScreen.

❖ Click on Choose and add a suitable image for the home screen.

❖ Adjust the properties of the image you have selected as follows.

PROPERTIES   EVENTS

id
Image1

width (px)
265

height (px)
190

x position (px)
25

y position (px)
190

image
1000_F_137892246_zOVWZ8I Choose...

fit image
contain

x position (px)
25

y position (px)
190

image
1000_F_137892246_zOVWZ8I Choose...

fit image
contain

border width (px)
0

border color
rgb(0, 0, 0)

border radius (px)
0

hidden
☐

depth
«   ‹   ›   »
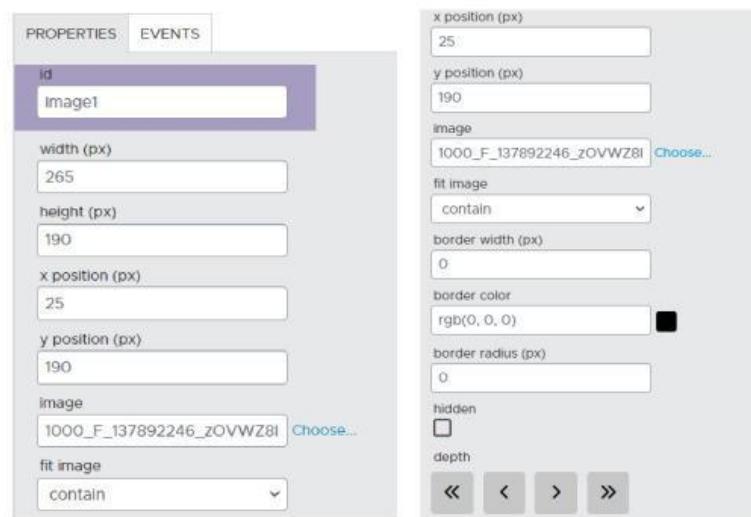
❖ Now add a label for that screen and adjust its properties as follows.

❖ Provide as "Apartment Rental Price Prediction App" for text.
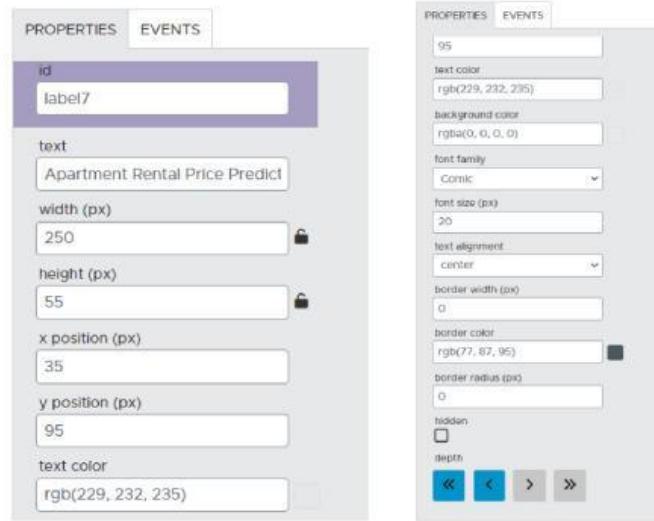
❖ Now provide the button for that screen. Give its id as stratBtn and text as start.
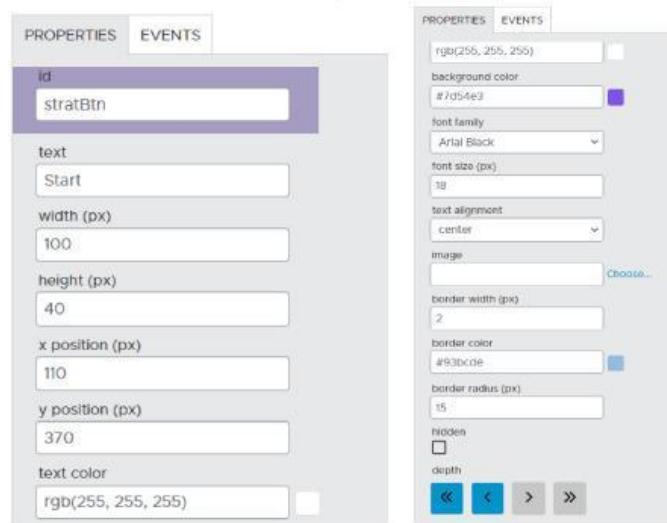
❖ Then the home screen will be created as follows.
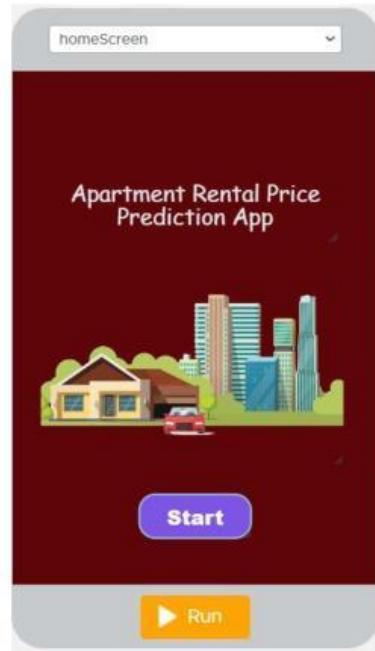
❖ Now let's set it to go to screen1 when the start button is clicked.

```
onEvent( ▼ "stratBtn", ▼ "click", function( ) {
    setScreen( ▼ "screen1");
}                          );
```
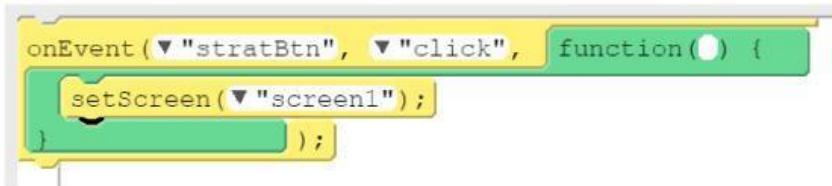
❖ Now let's design screen1.
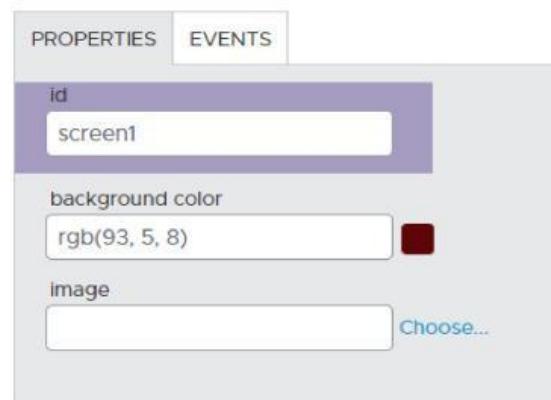
❖ Here we provide separate screen for each input to further improve the app.

❖ Let's prepare a separate screen for entering the number of bedrooms, number of bathrooms, number of storage rooms, and a screen for entering the location.

❖ Since four screens are needed here, let's duplicate the screen whose id is screen1 three times.

❖ Give the id of the duplicated screens as screen2, screen3 and screen4.

❖ Now in screen1 save only the label and text input related to the bedroom and delete other labels and text inputs.

❖ Here the minimum value of the text input is 1 and the maximum value is 3. So let's remove the text input and replace it with a dropdown. Because if there is an input text, it can be given a desired value.

❖ Here, delete the bedroom text input (Bedroom_input).

❖ Now add a dropdown. Give the id for that dropdown as Bedroom_dropdown. Give options 1, 2, and 3.

❖ Now adjust the Properties of that dropdown as follows.
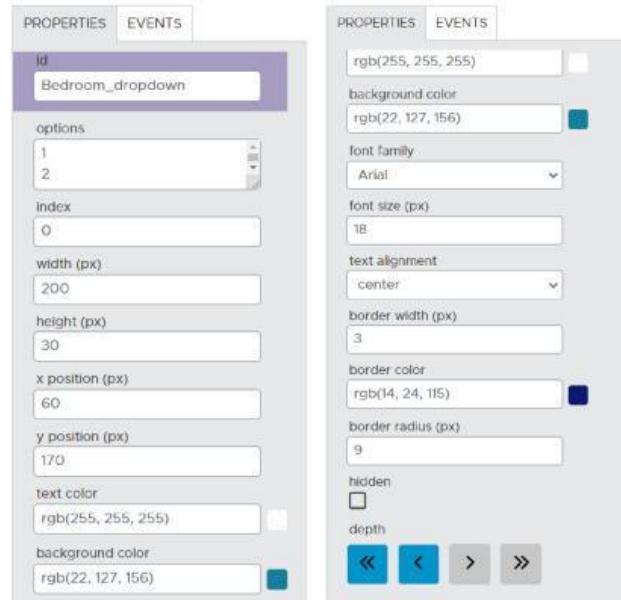
❖ Now change the Bedroom text on that screen to "Number of bedrooms:".

❖ Give the font color of the label as white and change its font size and font family.

❖ Adjust the properties of the label as follows.

PROPERTIES / EVENTS

id
Bedroom_label

text
Number of bedrooms :

width (px)
240

height (px)
35

x position (px)
10

y position (px)
140

text color
rgb(255, 255, 255)

background color
rgba(0, 0, 0, 0)

background color
rgba(0, 0, 0, 0)

font family
Palatino

font size (px)
18

text alignment
left

border width (px)
0

border color
rgb(77, 87, 95)

border radius (px)
0

hidden
☐

depth
« ‹ › »
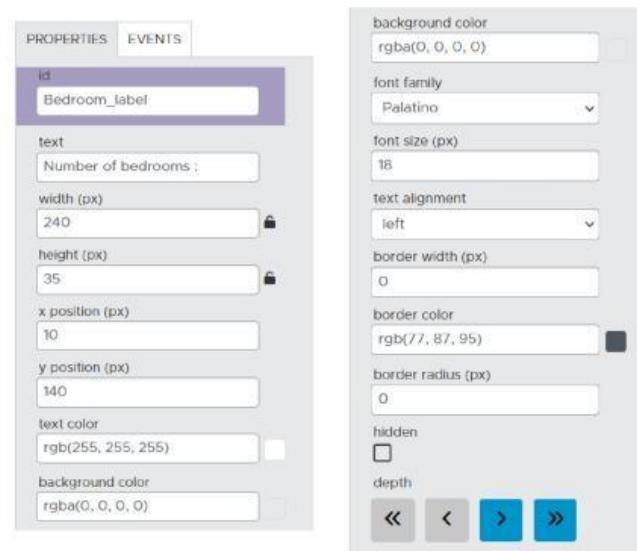
❖ Now add a button for this screen.

❖ Give screen1NextButton as id of Button.

❖ Adjust the properties of that button as follows.

PROPERTIES / EVENTS

id
screen1NextButton

text
Next

width (px)
100

height (px)
40

x position (px)
110

y position (px)
300

text color
rgb(255, 255, 255)

background color
rgb(125, 84, 227)

font family
Arial Black

font size (px)
18

text alignment
center

image
Choose...

border width (px)
2

border color
rgb(147, 188, 222)

border radius (px)
15

hidden
☐

depth
« ‹ › »
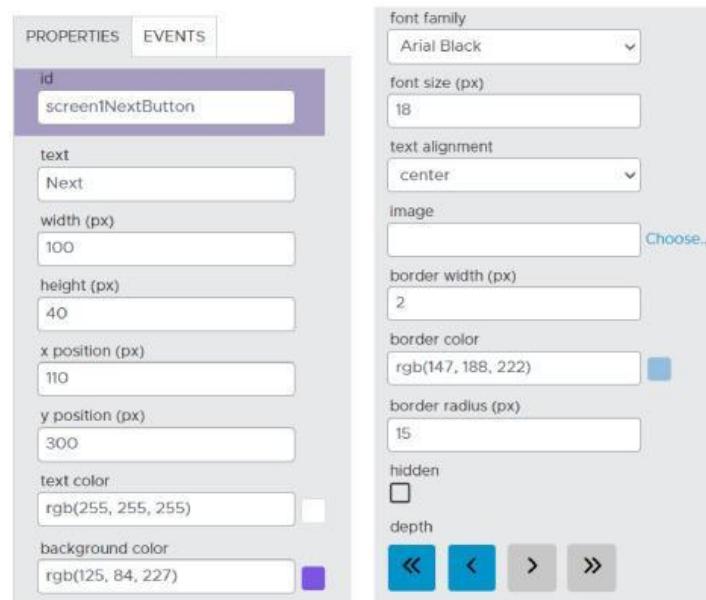
❖ Let's prepare the rest of this app in homework 171.