Project 100

DP EDUCATION Coding School

How It Works

Start Here

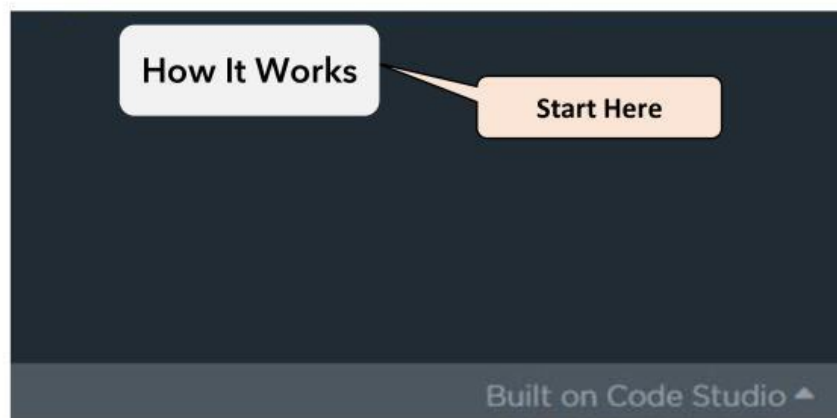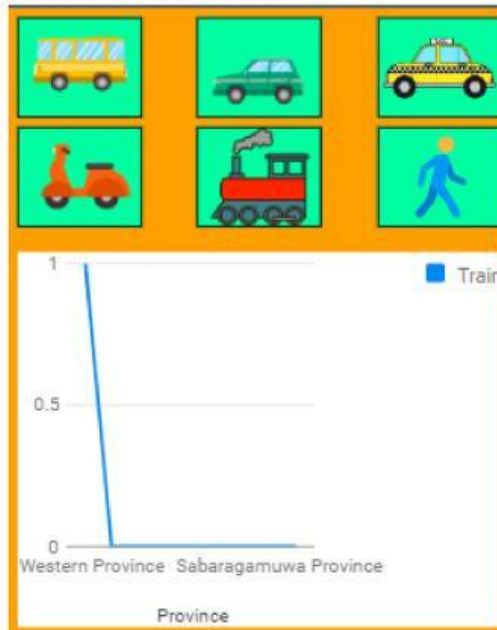Built on Code Studio ▲
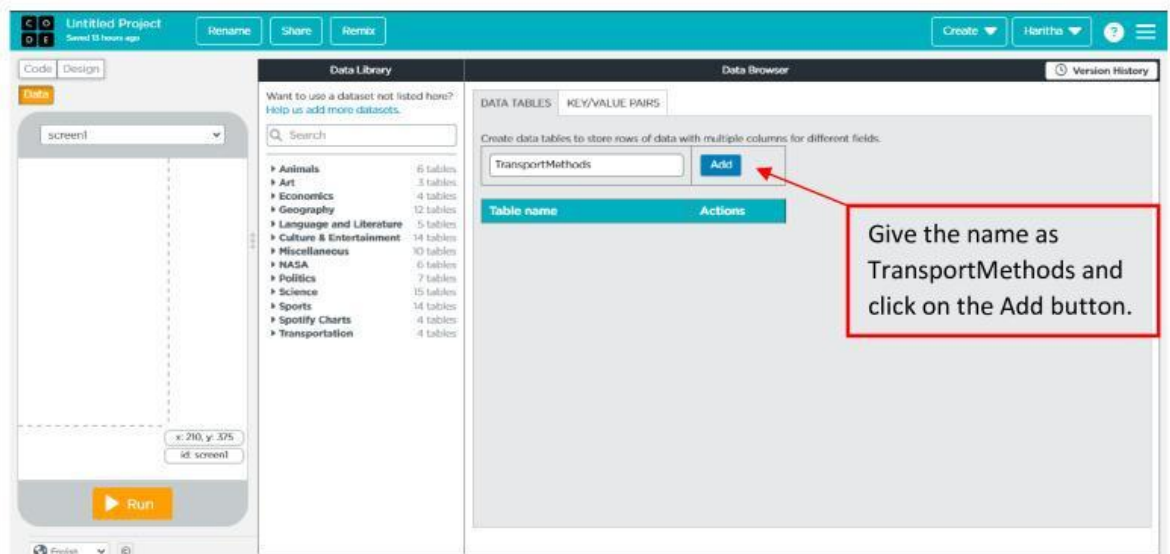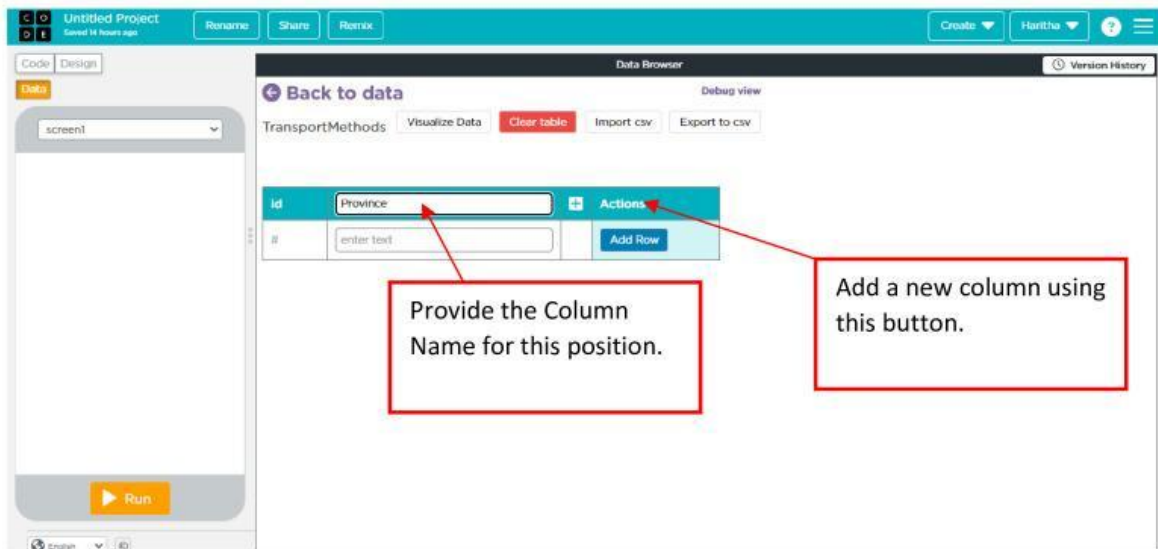
❖ Let's create an App that includes data about the modes of transportation used in each province of the country.
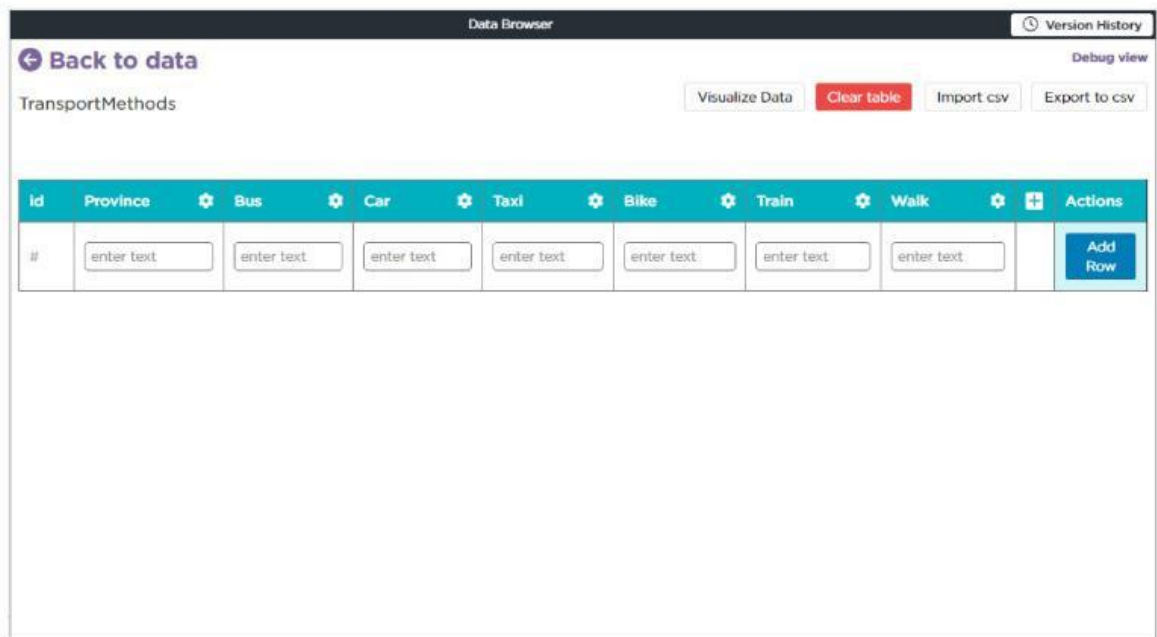

❖ All the designs related to the design of this App are included in the project given to you.
❖ First, let's see how to create the Data table related to the app.
❖ Go to the Data tab and create a new data table as "TransportMethods" as below.

id	Province		Actions
#	enter text		Add Row

Provide the Column Name for this position.

Add a new column using this button.

❖ Create the data table as follows .

id	Province		Bus		Car		Taxi		Bike		Train		Walk			Actions
#	enter text		enter text		enter text		enter text		enter text		enter text		enter text			Add Row

❖ Then add rows for the data table as follows.

Back to data   Debug view

TransportMethods   Visualize Data | Clear table | Import csv | Export to csv

Id	Province	Bus	Car	Taxi	Bike	Train	Walk		Actions
#	enter text	enter text	enter text	enter text	enter text	enter text	enter text		Add Row
1	"Western Province"	0	0	0	0	0	0		Edit Delete
2	"Northern Province"	0	0	0	0	0	0		Edit Delete
3	"Eastern Province"	0	0	0	0	0	0		Edit Delete
4	"Southern Province"	0	0	0	0	0	0		Edit Delete
5	"Central Province"	0	0	0	0	0	0		Edit Delete
6	"North Central Province"	0	0	0	0	0	0		Edit Delete
7	"North Western Province"	0	0	0	0	0	0		Edit Delete
8	"Sabaragamuwa Province"	0	0	0	0	0	0		Edit Delete
9	"Uva Province"	0	0	0	0	0	0		Edit Delete

❖ Now let's create the required variables.

```
var options = {};
var option = {};
option.colors = "blue";
```

❖ After that, when you click on the two buttons on the Home Screen, let's create to go to each screen.

❖ When you click on Add Your Transport Method, code as follows to go to the select screen.

```
onEvent("btnAddMethod", "click", function() {
  setScreen("Select");
});
```

❖ When you click on View Transport Methods, code as follows to move to the View screen.

```
onEvent("btnViewMethods", "click", function() {
  setScreen("View");
});
```

❖ The method selected by the user in the Select Screen should be stored in the options object. For that, code what should happen when each button is clicked as follows.

```
onEvent(▼"btnSelectBike", ▼"click", function() {
    options.method = "Bike";
});

onEvent(▼"btnSelectBus", ▼"click", function() {
    options.method = "Bus";
});

onEvent(▼"btnSelectCar", ▼"click", function() {
    options.method = "Car";
});

onEvent(▼"btnSelectTaxi", ▼"click", function() {
    options.method = "Taxi";
});

onEvent(▼"btnSelectWalk", ▼"click", function() {
    options.method = "Walk";
});

onEvent(▼"btnSelectTrain", ▼"click", function() {
    options.method = "Train";
});
```

❖ If you choose Bike, code as below

```
onEvent( ▼ "btnSubmit", ▼ "click", function ( ) {
    var province = getProperty( ▼ "dropdown1", ▼ "text");
    readRecords("TransportMethods", {Province : province}, function(records) {
        if( options.method == "Bike" )
        {
            var temp = {};
            temp.id = records[0].id;
            temp.Province = records[0].Province;
            records[0].Bike = records[0].Bike + 1;
            temp.Bike = records[0].Bike;
            temp.Bus = records[0].Bus;
            temp.Car = records[0].Car;
            temp.Taxi = records[0].Taxi;
            temp.Train = records[0].Train;
            temp.Walk = records[0].Walk;
            updateRecord("TransportMethods",temp, function(record, success) {
            });
        }
    }
}
```

❖ If Bus is selected, code as follows in the same block.

```
if( options.method == "Bus" )
{
    var temp = {};
    temp.id = records[0].id;
    temp.Province = records[0].Province;
    records[0].Bus = records[0].Bus + 1;
    temp.Bike = records[0].Bike;
    temp.Bus = records[0].Bus;
    temp.Car = records[0].Car;
    temp.Taxi = records[0].Taxi;
    temp.Train = records[0].Train;
    temp.Walk = records[0].Walk;
    updateRecord("TransportMethods",temp, function(record, success) {
    });
}
```

❖ In this way, code to update the data table for the rest of the choices.

❖ Finally, after submitting, enter the code to go back to the Home screen

❖ Now let's see how to create a graph based on the data table to show how much they are used in each province according to the mode of transportation selected in the View screen.

❖ If the selected method is Bus, code as follows to create the chart

```
onEvent(▼"btnViewBus", ▼"click", function() {
    drawChartFromRecords(▼"chart1", ▼"line", "TransportMethods", ["Province", "Bus"] ⊟ ⊟); →
}    );
```

❖ If the selected method is Car, code as follows to create the chart.

```
onEvent(▼"btnViewCar", ▼"click", function() {
    drawChartFromRecords(▼"chart1", ▼"line", "TransportMethods", ["Province", "Car"] ⊟ ⊟);
}    );
```

❖ In this way, read the data in the data table for other modes of transportation and create the graph for them

❖ At the end, code as follows to create what should happen when the Home button is clicked to return to the home screen.

```
onEvent(▼"btnViewHome", ▼"click", function() {
    setScreen(▼"Home");
}    );
onEvent(▼"btnSelectHome", ▼"click", function() {
    setScreen(▼"Home");
}    );
```