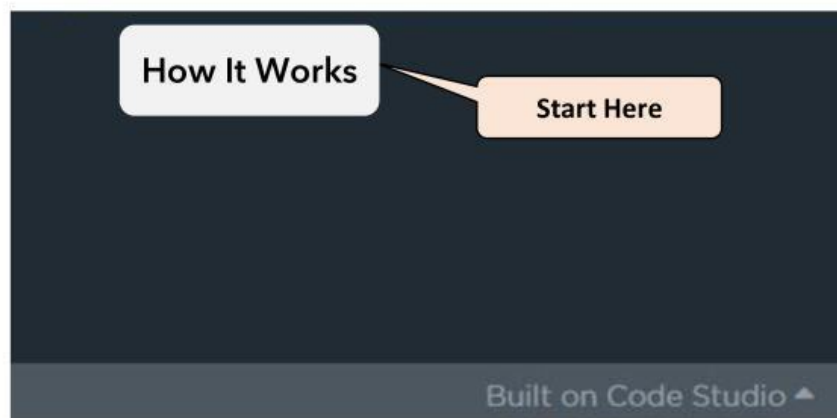


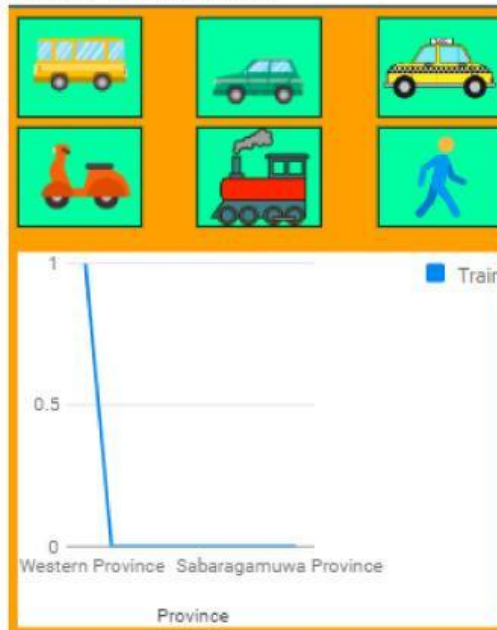
Project 100



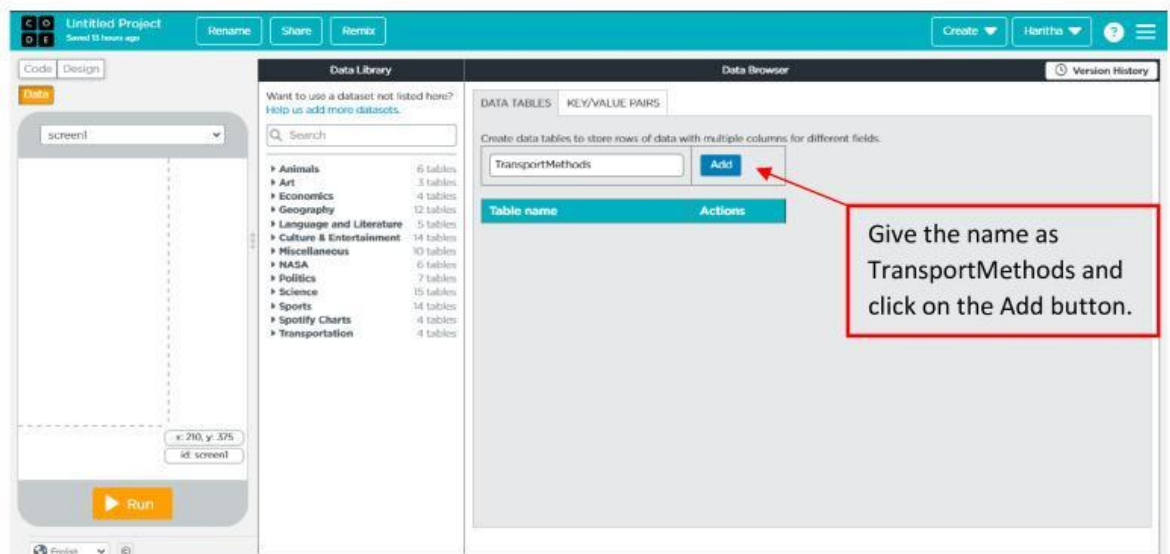
Coding School

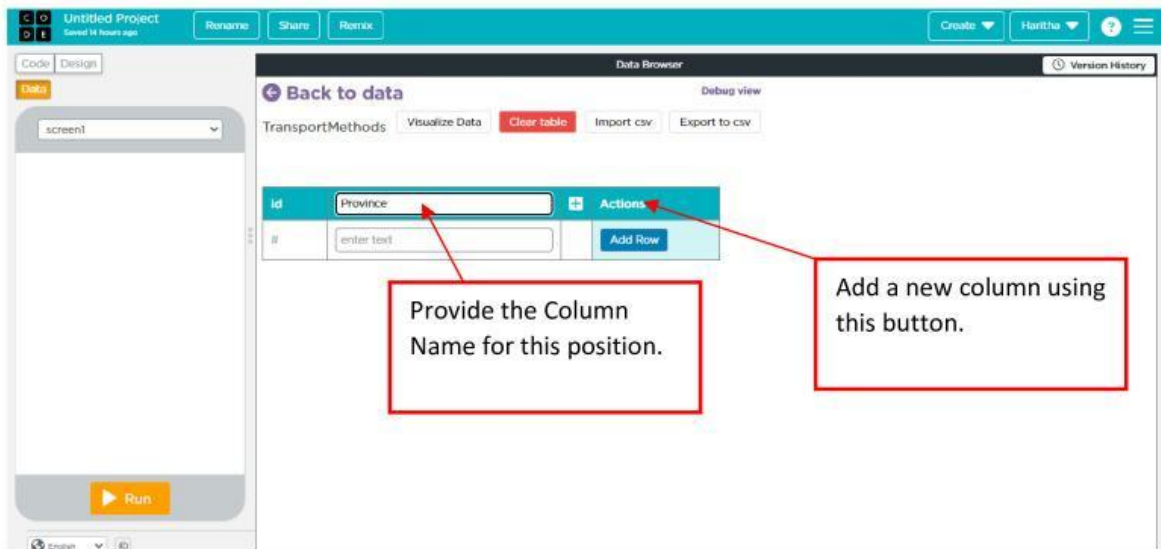


- ❖ Let's create an App that includes data about the modes of transportation used in each province of the country.

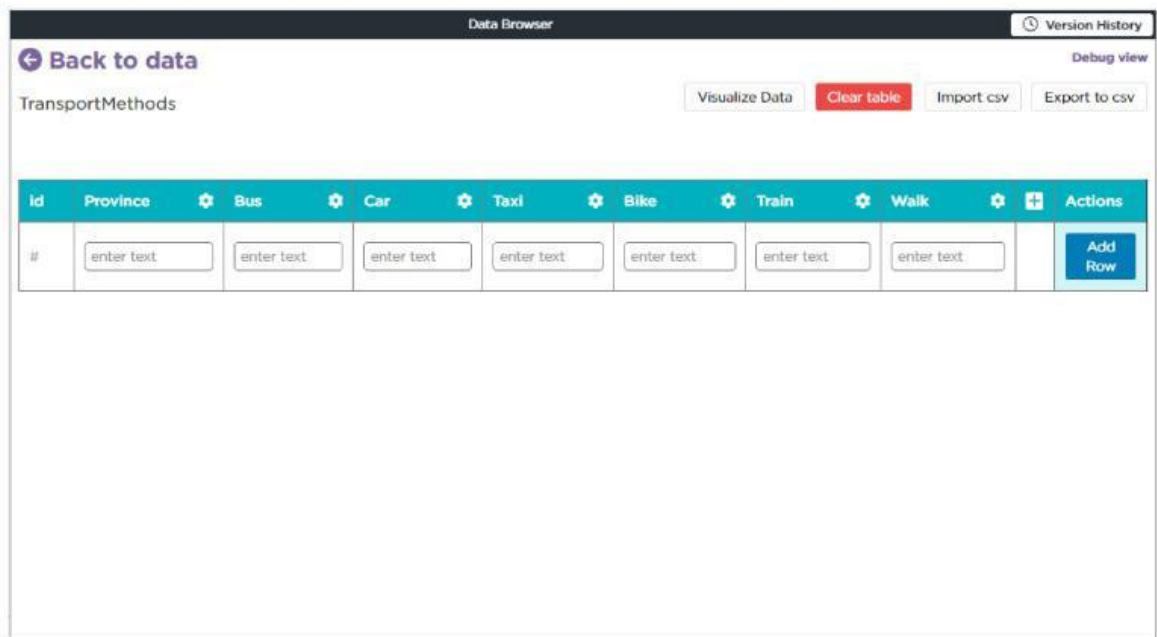


- ❖ All the designs related to the design of this App are included in the project given to you.
- ❖ First, let's see how to create the Data table related to the app.
- ❖ Go to the Data tab and create a new data table as "TransportMethods" as below.





❖ Create the data table as follows .



- ❖ Then add rows for the data table as follows.

Data Browser

Version History

Back to data

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");
});
```