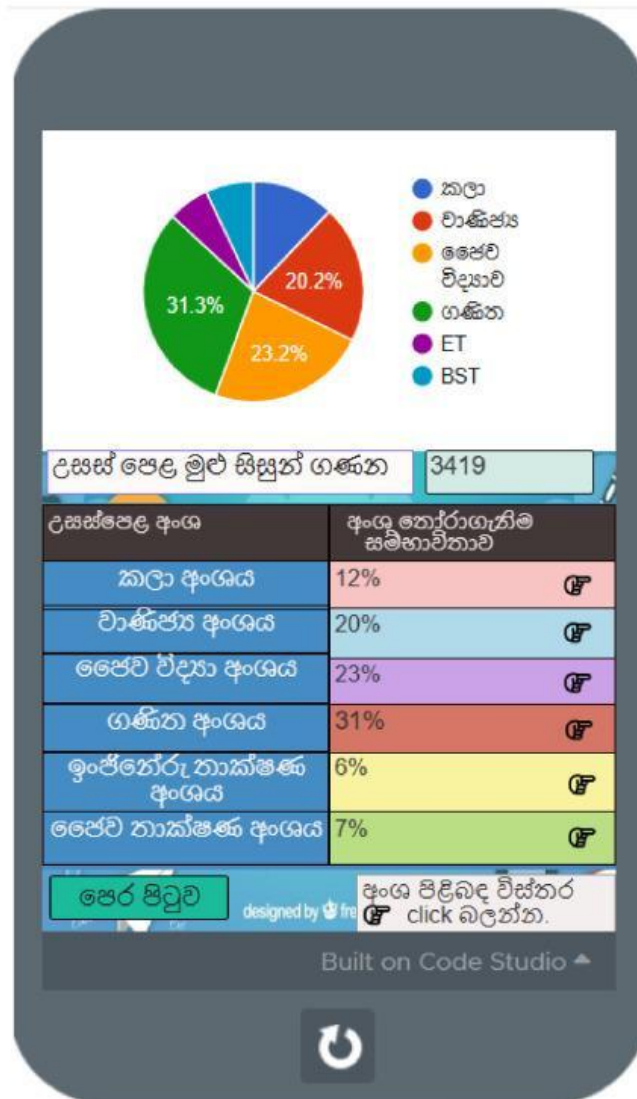


Creating an App about A/L sections of a school.

Method 1



H.A. Madhusa Nikethana



Start Here See the App



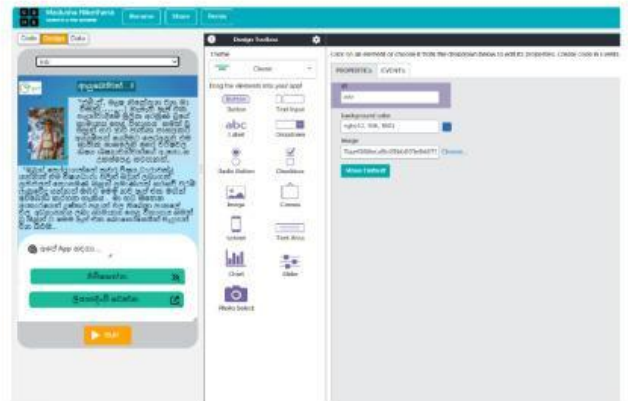
Coding School

• Let's design App

1). Let's create the first page.



2) Let's create second page (intro)



Create the code of the app. let's do

1). For the "Start here" Button, give the Button ID as "Str1".

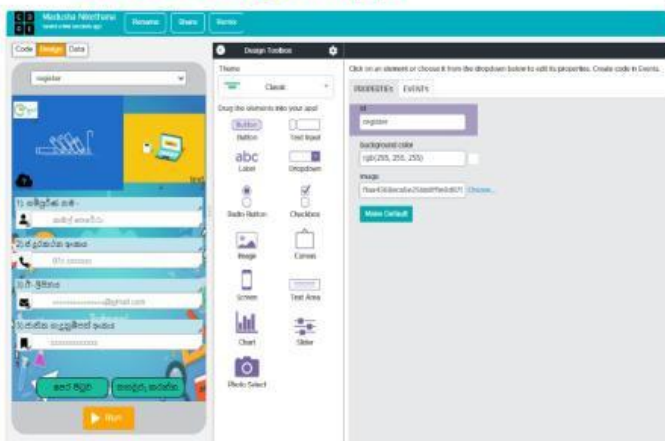
2). Give the Screen ID as "Openscreen" for the screen.

3). When you click the "Start" button, you can use the following code to connect to the intro screen.

```
1 onEvent(▼"str1", ▼"click", function() {
2     setScreen(▼"intr");
3 });
4 onEvent(▼"startid", ▼"click", function() {
5     setScreen(▼"registerfill");
6 });
7 onEvent(▼"registerid", ▼"click", function() {
8     setScreen(▼"register");
9 });
```

4). After connecting to the intro screen, there are 2 buttons for "Login" and "Register". When you click on it, use the following code to connect to the Register Screen and Registerfill Screen. For that, give different simple Button Id and Screen id.

• Let's design App



1). After that, design the Register Screen. For that, give Register as Screen id.

2). Below sections to enter data for registration create Take 4 labels for that

To name the parts and enter the related text

Give 4 text inputs.

3). To enter that information in a data table

Let's create a related data table.

4). For that, enter StudentDetails on Table name in Data and click Add.

DATA TABLES KEY/VALUE PAIRS

Create data tables to store rows of data with multiple columns for different fields.

Table name: Add

Table name	Actions
StudentDetails	Delete

5). After that the following Columns in the StudentDetails data table create.

id	Sname	TNumber	Email	NIC	Actions
#	enter text	enter text	enter text	enter text	Add Row

6). After that, set the button "Confirm", "Previous page". For that, give Button id to each other.



• Let's prepare the App Code

```

31
32 onEvent(▼"acstep", ▼"click", function( ) {
33     setScreen(▼"registerfill");
34     name = getText(▼"text_inputname");
35     tele = getNumber(▼"text_inputtele");
36     email = getText(▼"text_inputemail");
37     nic = getNumber(▼"text_inputNIC");
38     createRecord("StudentDetails", {Sname:name, TNumber:tele, Email:email, NIC:nic,});
39 });
40 onEvent(▼"again", ▼"click", function( ) {
41     setScreen(▼"intr");
42 });
  
```

7). create Variable for it



```

1 var name = "";
2 var tele = "";
3 var email = "";
4 var nic = "";
  
```

1 After that, create Variable as above to enter the data. Then the variables are given
Enter the values in the StudentDetails table. Use the above code to create it.

2). When you click the "Previous Page" button, move to the Intro Screen.
Create it using the above code.

• Let's design App



Code Design Data

registerfill

rocket

ඔබගේ App විකුණන පුවතරනය

විකුණන නිවැරදි නම

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විකුණන නිවැරදි නම

Run

1). Design the Registerfill Screen as above.

2). Click on the "Register" label and then return to the Register Screen

move on

3) Interface Screen and Intro Screen when you click on "Login" and "Previous Page" Button

Connect to. Give different Button ID and Screen ID for that.

• Let's prepare the App Code

```
43 onEvent(▼"nextbtn", ▼"click", function() {  
44   name = getText(▼"text_inputName");  
45   tele = getNumber(▼"text_inputTele");  
46   readRecords("StudentDetails", {}, function(records) {  
47     for (var i = 0; i < records.length; i++) {  
48       if (records[i].Sname == name && records[i].TNumber == tele) {  
49         setScreen(▼"interface");  
50       }  
51     }  
52   });  
53 }  
54 onEvent(▼"Registerletter", ▼"click", function() {  
55   setScreen(▼"register");  
56 }  
57 onEvent(▼"AgainInter", ▼"click", function() {  
58   setScreen(▼"registerfill");  
59 }  
60 onEvent(▼"backbtn", ▼"click", function() {  
61   setScreen(▼"intr");  
62 }  
63 onEvent(▼"alresult1", ▼"click", function() {  
64   setScreen(▼"firstbuttonscreen");  
65 }
```

1). Give the relevant Variable to enter the data

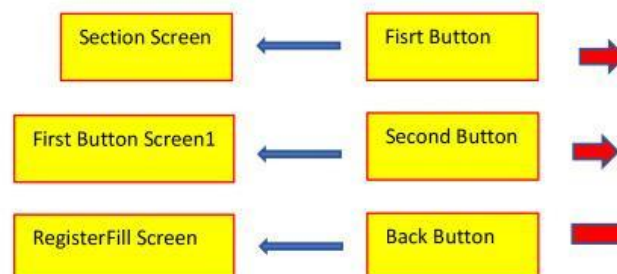
2). Check if the given values are the same with the data in the table and if correct, to connect to the Interface Screen above , Use the code.

Activate Wir

• Let's design App

1). Design the interface screen as above.

2). Provide the Button ID.



• Let's design App



- 1). Interface Screen and First Button Screen as above Design it.
- 2). Provide the Button ID.

• Let's prepare the App Code

```
var schoolna = "";
var schooly = "";

onEvent(▼"Schoolbtn", ▼"click", function() {
    schoolna = getText(▼"Selectschool");
    schooly = getText(▼"Selectyear");
    readRecords("Scc", {}, function(records) {
        for (var i = 0; i < records.length; i++) {
            if (records[i].Schoolname == schoolna && records[i].Year == schooly) {
                setScreen(▼"Sectionscreen");
            }
        }
    });
});

onEvent(▼"schoolback", ▼"click", function() {
    setScreen(▼"interface");
});
```

- 3). Get 2 Dropdown Menu and give ID for it.
- 4). Provide the Button ID.
- 5). Create Variable as above to enter data. Then create the table named Scc and enter the values given for those variables. Then read the table and enter the data in the variable. Create it using the above code.

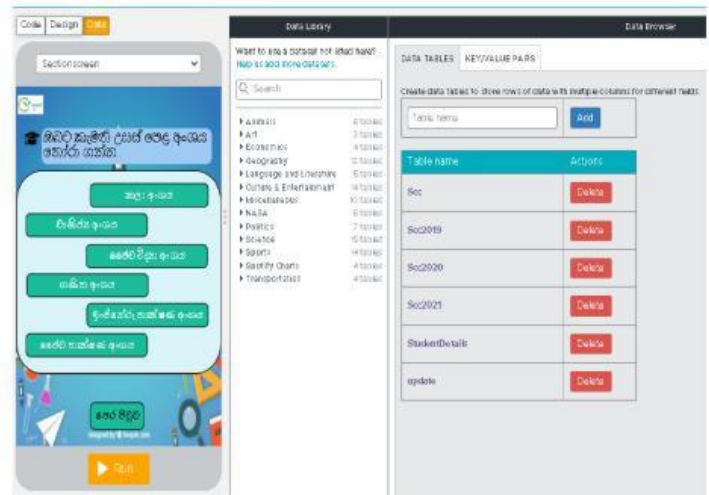
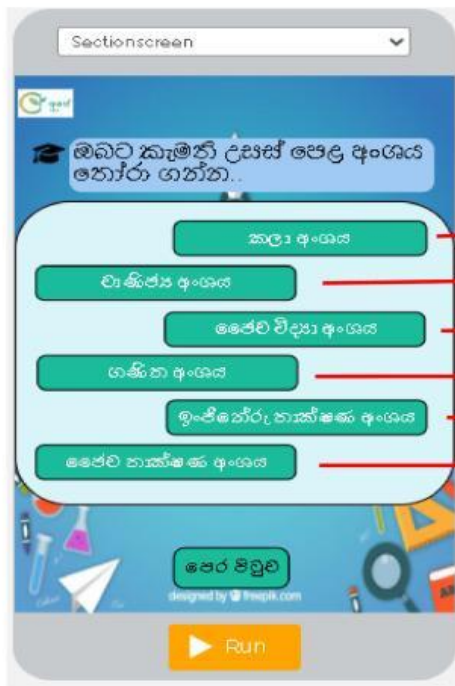


Table name	Actions
Scc	Delete

• Let's design App

- 1). Design the Section Screen as above.
- 2). Give the Button ID. When clicked on it connect to the following screen.
- 3). Design Screen 7 as above.
- 4). Provide the Button ID. When you click on it below Connect for Screen.



- Art Screen
- ComzScre
- Sciences Screen
- Mathz Screen
- ET Screen
- BT Screen

Prepare the App Code

```
onEvent(▼"Artid", ▼"click", function() {
  setScreen(▼"Artscreen");
  readRecords "Scc", {}, function(records) {
    for (var i=0; i < records.length; i++) {
      if (records[i].Schoolname == schoolnm && records[i].Year == schooly) {
        setText(▼"Artschool", getText(▼"Selectschool"));
        setText(▼"Artyear", getText(▼"Selectyear"));
        setText(▼"Artsection", getText(▼"Artid"));
      }
    }
  }
});
```



5). Design the Art Screen as follows

6). Make 2 Charts. Get Chart Id for them.

7). Design one screen as below. Mention the other screen as above.

8). Since 2 years have been entered, create 2 related tables

Scc2019	Delete
Scc2020	Delete

9). Use the data in this way for 2 tables related to 2 years.

id	Section	Attendedstu	Passedstu	Uniselectstu	Actions
#	enter text	enter text	enter text	enter text	<button>Add Row</button>
1	"Art"	419	400	390	<button>Edit</button> <button>Delete</button>
2	"comz"	680	570	543	<button>Edit</button> <button>Delete</button>
3	"Sciences"	800	420	120	<button>Edit</button> <button>Delete</button>
4	"Mathz"	1050	410	200	<button>Edit</button> <button>Delete</button>
5	"Engineering Technology"	220	180	160	<button>Edit</button> <button>Delete</button>
6	"Bio Technology"	250	210	190	<button>Edit</button> <button>Delete</button>

• Let's prepare the App Code

```
var artper = 0;
var pass = 0;
var uni = 0;
var fail = 0;
var unino = 0;
```

1). Set the variable

```
if (getNumber ▼ "Selectyear" == 2019) {
  readRecords "Sec2019", {}, function records {
    for (var i = 0; i < records.length; i++) {
      if ( (records[i] == records[0]) && (records[i] == records[0]) && (records[i] == records[0]) ) {
        artper = ( (records[i].Passedstu * 100) / records[i].Attendedstu );
        pass = Math.round(artper);
        setText ▼ "Artyes", pass + "%";
        fail = 100 - pass;
        setText ▼ "Artno", fail + "%";
        artper = ( (records[i].Uniselectstu * 100) / records[i].Passedstu );
        uni = Math.round(artper);
        setText ▼ "Artuni", uni + "%";
        unino = 100 - uni;
        setText ▼ "Artunino", unino + "%";
        setNumber ▼ "Artattended", records[i].Attendedstu;
      }
    }
  }
  drawChart ▼ "Artchart1", ▼ "pie", [
    { label: "အတတ်", value: pass },
    { label: "အမတတ်", value: fail }
  ] == => ;
  drawChart ▼ "Artchart2", ▼ "pie", [
    { label: "အတတ်", value: uni },
    { label: "အမတတ်", value: unino }
  ] == => ;
}
```

5). Code the Art Screen prepared in that way as below.

6).Output the data according to the year 2019. IF Code for that
Enter the year in and read from the data table.

7).Prepare the data to be the output above and plot it in a graph.

8) Set the other screens in the same way.

```

    } else if (getNumber ▼ "Selectyear" == 2020) {
    readRecords "Scc2020", {}, function records {
    for (var i = 0; i < records.length; i++) {
    if ( (records[i]) == records[0] && (records[i]) == records[0] && (records[i]) == records[0] ) {
    artper = ( (records[i]).Passedstu * 100) / (records[i]).Attendedstu;
    pass = Math.round(artper);
    setText ▼ "Artyes", pass + "%";
    fail = 100 - pass;
    setText ▼ "Artno", fail + "%";
    artper = ( (records[i]).Uniselectstu * 100) / (records[i]).Passedstu;
    uni = Math.round(artper);
    setText ▼ "Artuni", uni + "%";
    unino = 100 - uni;
    setText ▼ "Artunino", unino + "%";
    setNumber ▼ "Artattended", (records[i]).Attendedstu;
    }
    }
    drawChart ▼ "Artchart1", ▼ "pie", [
    ({ label: "සමත්", value: pass }),
    ({ label: "අසමත්", value: fail })
    ] ==> ];
    drawChart ▼ "Artchart2", ▼ "pie", [
    ({ label: "සමත්", value: uni }),
    ({ label: "අසමත්", value: unino })
    ] ==> ];
    }
  }

```

6). Output the data according to the year 2020. For that, specify the year in the IF Code and read it from the data table.

7). Prepare the data to be the output above and plot it in a graph.

8) Set the other screens in the same way.



• Let's design app

1). Set First Button Screen1 as above.

2). Get 2 Dropdown Menu and give ID for it.

3). Provide the Button ID.

4). Create Variable as above to enter data. Then create the table named Scc and enter the values given for those variables. Then read the table and enter the data in the variable. Create it using the above code.

• Let's prepare the App Code

```
onEvent ▼ "facultyid", ▼ "click", function () {
  setScreen ▼ "firstbuttonscreen1";
};

onEvent ▼ "facbutton", ▼ "click", function () {
  Facultynm = getText ▼ "dropdownfac";
  Facultyyr = getText ▼ "dropdownfacyear";
  readRecords "Scs", {}, function records {
    for (var i = 0; i < records.length; i++) {
      if (records[i].Schoolname == Facultynm && records[i].Year == Facultyyr) {
        setScreen ▼ "facultychoose?";
      }
    }
  };
};
```

1). Set Variable

```
var Facultynm = "";
var Facultyyr = "";
```



• Let's design App

- 1). Create the screen as above.
- 2). According to the year given in data entry, set the relevant data and set the output input label.
- 3). Button with a handprint link to the pre-made Art,Comz,Sciences,Mathz,ET,BT Screen. Give different Button Id.
- 4). Create the "Previous Page" Button.

• Let's prepare the App Code

```
onEvent ▼ "facultyid", ▼ "click", function () {
  setScreen ▼ "firstbuttonscreen1";
};

onEvent ▼ "facbutton", ▼ "click", function () {
  Facultynm = getText ▼ "dropdownfac";
  Facultyyr = getText ▼ "dropdownfacyear";
  readRecords "Scs", {}, function records {
    for (var i = 0; i < records.length; i++) {
      if (records[i].Schoolname == Facultynm && records[i].Year == Facultyyr) {
        setScreen ▼ "facultychoose?";
      }
    }
  };
};
```

```

if (getText(▼"dropdownyear") == 2019) {
  readRecords("Sec2019", {}, function(records) {
    for (var i = 0; i < records.length; i++) {
      if (records[i] == records[0]) {
        total = (records[0]).Attendedstu + (records[1]).Attendedstu + (records[2]).Attendedstu + (records[3]).Attendedstu + (records[4]).Attendedstu + (records[5]).Attendedstu;
        percent = ((records[0]).Attendedstu * 100) / total;
        facart = Math.round(percent);
        setNumber(▼"Allfacultystu", total);
        setText(▼"artfac", facart + "%");
      }
    }
  });
}

onEvent(▼"artsheet", ▼"click", function() {
  setScreen(▼"Artscreen");
  hideElement(▼"artback");
  showElement(▼"artfacback");
  onEvent(▼"artfacback", ▼"click", function() {
    setScreen(▼"facultychoose");
  });
  readRecords("Sec", {}, function(records) {
    for (var i = 0; i < records.length; i++) {
      if ((records[i]).Schoolname == Facultyname && (records[i]).Text == Facultyyr) {
        setText(▼"Artschool", getText(▼"dropdownfac"));
        setText(▼"Artyear", getText(▼"dropdownyear"));
        setText(▼"Artsection", getProperty(▼"artname", ▼"text"));
      }
    }
  });
  readRecords("Sec2019", {}, function(records) {
    for (var i = 0; i < records.length; i++) {
      if ((records[i]) == records[0] && ((records[i]) == records[0] && (records[i]) == records[0])) {
        artper = ((records[i]).Passedstu * 100) / (records[i]).Attendedstu;
        pass = Math.round(artper);
        setText(▼"Artper", pass + "%");
        fail = 100 - pass;
        setText(▼"Artno", fail + "%");
        artper = ((records[i]).Uniselectst * 100) / (records[i]).Passedstu;
        uni = Math.round(artper);
        setText(▼"Artuni", uni + "%");
        unino = 100 - uni;
        setText(▼"Artunino", unino + "%");
        setNumber(▼"Artattended", (records[i]).Attendedstu);
      }
    }
  });
  drawChart(▼"Artchart1", ▼"pie", [
    ({label: "සමත්", value: pass}),
    ({label: "අසමත්", value: fail})
  ], true);
  drawChart(▼"Artchart2", ▼"pie", [
    ({label: "සමත්", value: uni}),
    ({label: "අසමත්", value: unino})
  ], true);
}

readRecords("Sec2020", {}, function(records) {
  for (var i = 0; i < records.length; i++) {
    drawChart(▼"facultychart", ▼"pie", [
      ({label: "සී", value: facart}),
      ({label: "පී", value: faccomm}),
      ({label: "සීසී", value: facsci}),
      ({label: "සීම", value: facmaths}),
      ({label: "ඊ", value: facet}),
      ({label: "සී", value: facbt})
    ], true);
  }
});

```

1). Create using the data table containing the details related to the year 2019.

2). Create the complete code below for Art Screen. It outputs the processing data by the label related to the art section and is connected to the related screen by the button.

3). Similarly, prepare the code for other sections in this way.

4). Set the above variable.

```

var total = 0;
var percent = 0;
var facart = 0;
var faccomm = 0;
var facsci = 0;
var facmaths = 0;
var facet = 0;
var facbt = 0;

```



```

else if ( (getNumber(▼"dropdownyear") == 1920) ) {
  readRecords( "Sec1920", {}, function( records ) {
    for ( var i = 0; i < records.length; i++ ) {
      if ( (records[i]) == records[0] ) {
        total = (records[0]).Attendedstu + (records[1]).Attendedstu + (records[2]).Attendedstu + (records[3]).Attendedstu + (records[4]).Attendedstu + (records[5]).Attendedstu;
        percent = ( (records[0]).Attendedstu * 100 ) / total;
        facart = Math.round( percent );
        setText( ▼"artfac", facart + "%" );
        setNumber( ▼"Allfacultystu", total );
      }
    }
  });
}

onEvent( ▼"artsheet", ▼"click", function() {
  setScreen( ▼"Artscreen" );
  hideElement( ▼"Artback" );
  showElement( ▼"artfacback" );
  onEvent( ▼"artfacback", ▼"click", function() {
    setScreen( ▼"facultychoose" );
  });
}

readRecords( "Sec", {}, function records {
  for ( var i = 0; i < records.length; i++ ) {
    if ( (records[i]).Schoolname == Facultyym && (records[i]).Year == Facultyyy ) {
      setText( ▼"ArtSchool", getText( ▼"dropdownfac" ) );
      setText( ▼"Artyear", getText( ▼"dropdownyear" ) );
      setText( ▼"Artsection", getProperty( ▼"artname", ▼"text" ) );
    }
  }
});

readRecords( "Sec2020", {}, function records {
  for ( var i = 0; i < records.length; i++ ) {
    if ( (records[i]) == records[0] && (records[i]) == records[0] && (records[i]) == records[0] ) {
      artper = ( (records[i]).Passedstu * 100 ) / (records[i]).Attendedstu;
      pass = Math.round( artper );
      setText( ▼"Artyes", pass + "%" );
      fail = 100 - pass;
      setText( ▼"Artno", fail + "%" );
      artper = ( (records[i]).Unselectstu * 100 ) / (records[i]).Passedstu;
      uni = Math.round( artper );
      setText( ▼"Artuni", uni + "%" );
      unino = 100 - uni;
      setText( ▼"Artunino", unino + "%" );
      setNumber( ▼"Artattended", (records[i]).Attendedstu );
    }
  }
});

drawChart( ▼"Artchart1", ▼"pie", [
  ((label: "ಪಾಸ", value: pass)),
  ((label: "ಫೇಲ", value: fail))
] );

drawChart( ▼"Artchart2", ▼"pie", [
  ((label: "ಏಕು", value: uni)),
  ((label: "ಏಕು", value: unino))
] );

readRecords( "Sec2020", {}, function records {
  drawChart( ▼"facultychart", ▼"pie", [
    ((label: "ಫಾಕ್", value: facart)),
    ((label: "ಫಾಕ್", value: faccom)),
    ((label: "ಫಾಕ್", value: facsc)),
    ((label: "ಫಾಕ್", value: facmath)),
    ((label: "ಫಾಕ್", value: facet)),
    ((label: "ಫಾಕ್", value: facet))
  ] );
});

```

1). Create using the data table containing the details related to the year 2020.

2). Create the complete code below for Art Screen. It outputs the processing data by the label related to the art section and is connected to the related screen by the button.

3). Similarly, prepare the code for other sections in this way.

4). Create labels related to all sections and show their percentage values in a chart.

5). Create all Back Button to connect to previous page.

```

onEvent( ▼"Facback", ▼"click", function() {
  setScreen( ▼"interface" );
});

onEvent( ▼"Facultyback", ▼"click", function() {
  setScreen( ▼"firstbuttonscreen1" );
});

onEvent( ▼"schoolback", ▼"click", function() {
  setScreen( ▼"interface" );
});

```

Send me the app you created