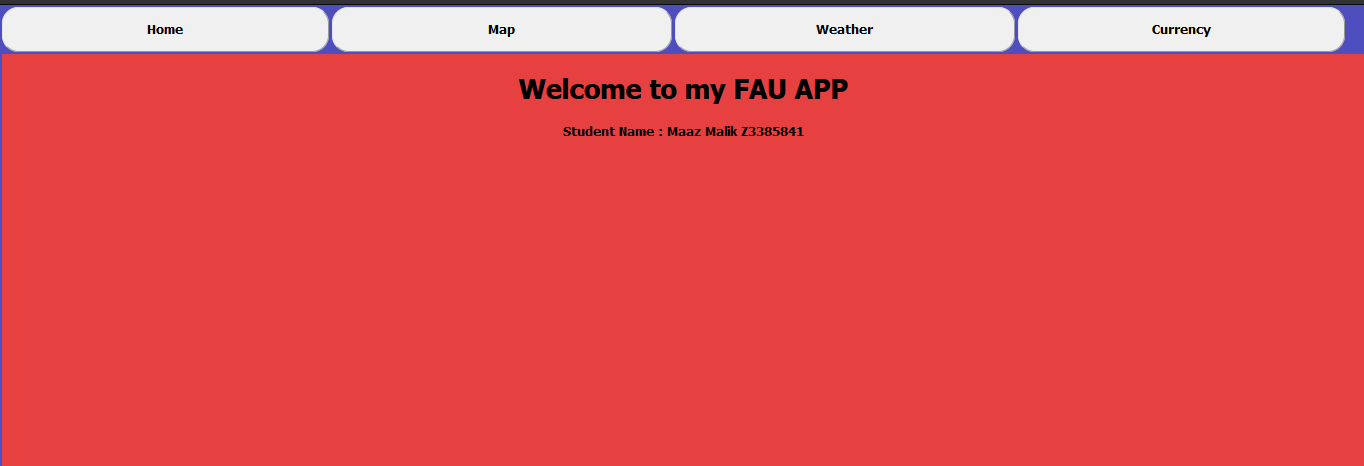
HW 5 Maaz Malik

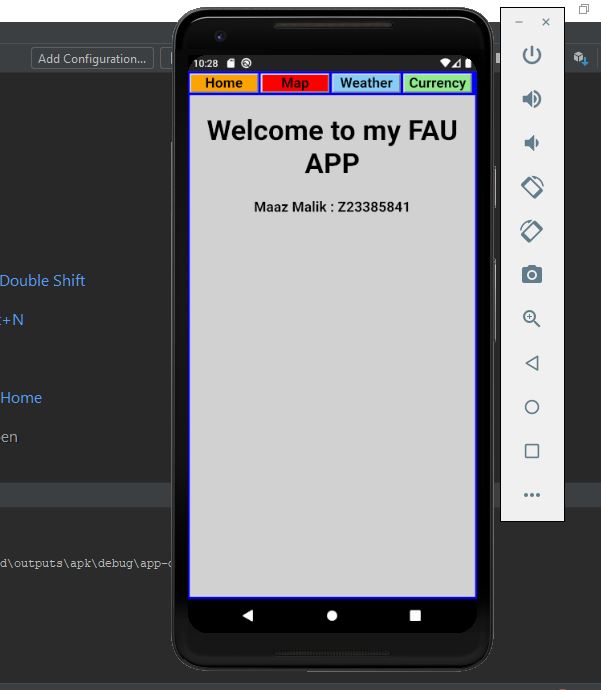
3/1/2021 Prof.Jaramillo

This app has gone through many changes and unfortunately the more time I spent on it the worse it got. I wish I had screengrabbed some of my earlier parts when I got things to work But I wanted to wait till I had completed the Weather functionality properly.



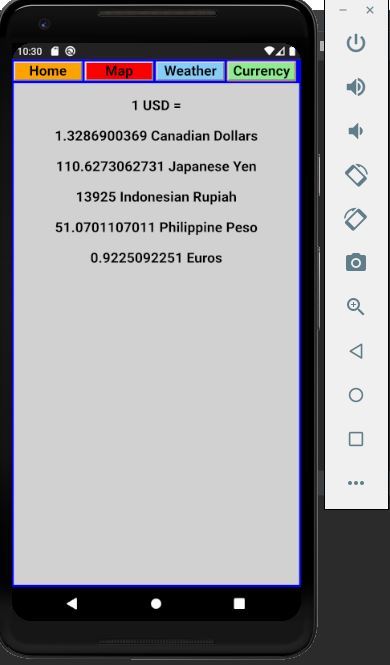
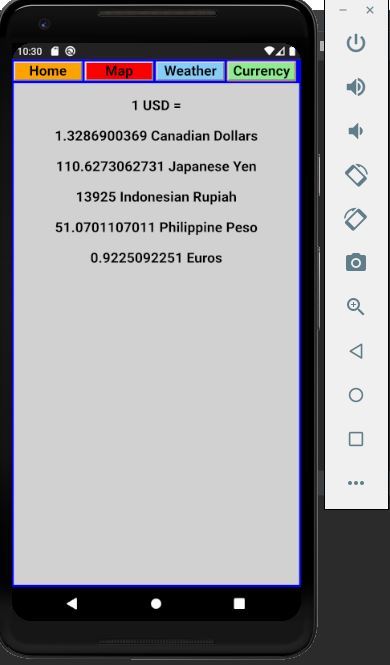
Started by changing my name and Z number on the browser. I also don’t have much time so Im just going to screenshot what I have thus far and source code for it .

I opened and worked on the File withing Android studio and it was there that I had lost the CSS file and had to use an older version because for some reason, the original file was not being found When I extracted it from the Skeleton code.



I added the weather api. I based it on the solution that the professor gave us from hw3. I also established the information in the index.html file and had the weather information display in that specific tab. As displayed below I modified it to display less for the mobile app version





**Index.html**

<!DOCTYPE HTML>

<HTML>

    <head>

        <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <meta name="description" content="">

  <meta name="author" content="">

        <title> MY FAU APP </title>

        <script src="js/home.js"></script>

        <script src="js/map.js"></script>

        <script src="js/currency.js"></script>

        <script src="js/weather.js"></script>

        <script src="js/main.js"></script>

        <link rel="stylesheet" type="text/css" href="css/style.css"/>

    </head>

    <body>

        <table id="page">

            <tr><td id="tdheader">

                <div id="header">

                    <button id ="home">Home</button>

                    <button id ="map">Map</button>

                    <button id ="weather">Weather</button>

                    <button id ="currency">Currency</button>

                </div>

            </td></tr>

            <tr><td id="tdcontent">

              <div id="content">

                <iframe

                width="600"

                height="450"

                frameborder="0" style="border:0"

                src="https://www.google.com/maps/embed/v1/place?key=d769f4675a3ac80235ff8faa8eb100a3

                  &q=Space+Needle,Seattle+WA" allowfullscreen>

              </iframe>

              </div>

          </table>

          <div clas="appcontainer">

            <div id="weather">

            </div>

            <p>Maaz Malik : Z23385841</p>

            <input type="text" name="ZIP" value="33405" id="zipinput">

            <button type="button" onclick="getweather()">Get Weather</button>

        </div>

        <script src="https://code.jquery.com/jquery-3.4.1.js" integrity="sha256-WpOohJOqMqqyKL9FccASB9O0KwACQJpFTUBLTYOVvVU="

            crossorigin="anonymous"></script>

    </body>

</HTML>

**Home.js**

var dohome = function(){

    let workspace = document.getElementById("content");

    workspace.innerHTML = "";

    let h1 = document.createElement('h1');

    let text = document.createTextNode("Welcome to my FAU APP");

    h1.appendChild(text);

    workspace.append(h1);

    let h3 = document.createElement('h3');

    text = document.createTextNode("Maaz Malik : Z23385841");

    h3.appendChild(text);

    workspace.appendChild(h3);

    let request = require('request');

let apiKey = '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*';

let city = 'boca raton';

let url = `http://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${apiKey}`

request(url, function (err, response, body) {

  if(err){

    console.log('error:', error);

  } else {

    console.log('body:', body);

  }

});

}

**Main.js**

document.addEventListener("DOMContentLoaded", function(){

    //Do this when DOM is loaded

    //Set event listeners/handlers for buttons

    document.getElementById('home').onclick = dohome;

    document.getElementById('weather').onclick = doweather;

    document.getElementById('map').onclick = domap;

    document.getElementById('currency').onclick = docurrency;

    dohome();

});

    document.getElementById('currency').onclick = docurrency;

    dohome();

});

**Weather.js**

var doweather = function() { //This function should be used to build your weather information in the content element

    console.log("GETTING CURRENCY");

    var xmlhttp = new XMLHttpRequest();

    xmlhttp.onreadystatechange = function () {

        if (this.readyState == 4 && this.status == 200) {

            var weather = JSON.parse(this.responseText);

            console.log(weather);

            maketable(weather);

        }

        else

        {

            console.log("this.readyState=",this.readyState);

            console.log("this.status=",this.status)

        }

    };

    var dataprefix = "https://api.openweathermap.org/data/2.5/weather?zip="

    var datasuffix = "&appid=d769f4675a3ac80235ff8faa8eb100a3"

    var data = dataprefix + document.getElementById("zipinput").value + datasuffix;

    console.log("requesting:",data);

    xmlhttp.open("POST", data, true)

    xmlhttp.send();

}

function make\_row(arg1,arg2,table){

    var tr = document.createElement('tr');

    var td1 = document.createElement('td');

    var td2 = document.createElement('td');

    var text = document.createTextNode(arg1);

    td1.appendChild(text);

    text = document.createTextNode(arg2);

    td2.appendChild(text);

    tr.appendChild(td1);

    tr.appendChild(td2);

    table.appendChild(tr);

}

function maketable(conditions) { // Builds out the table of data

    var sunset = new Date(conditions.sys.sunset \* 1000); //Setup condition varaibles

    var lowF = Math.floor(conditions.main.temp\_min \* (9.0/5) - 459.67);

    var highF = Math.floor(conditions.main.temp\_max \* (9.0/5) - 459.67);

    var sunrise = new Date(conditions.sys.sunrise \* 1000);

    var tempF = Math.floor(conditions.main.temp \* (9.0 / 5) - 459.67);

    var feelslikeF = Math.floor(conditions.main.feels\_like \* (9.0/5) - 459.67);

    var header = document.createElement('h4'); //Prep the table header

    var textnode = document.createTextNode("Weather in " + conditions.name);

    header.appendChild(textnode);

    var appendme = document.getElementById("weather");

    appendme.innerHTML = ""; //Gut the contents of the previous DIV

    appendme.appendChild(header);

    //Start of table construction

     var table = document.createElement('table');

     make\_row("Degrees F",tempF,table);

     //make\_row("Feels Like",feelslikeF,table);

     //make\_row("Today's Low",lowF,table);

     //make\_row("Today's High",highF,table);

     //make\_row("Current Conditions",conditions.weather[0].description,table);

     //make\_row("Sunset",sunset,table);

    // make\_row("Sunrise",sunrise,table);

     appendme.appendChild(table);

**Currency.js**

var docurrency = function(){

    console.log("GETTING CURRENCY");

    var xmlhttp = new XMLHttpRequest();

    xmlhttp.onreadystatechange = function () {

        if (this.readyState == 4 && this.status == 200) {

            let currency = JSON.parse(this.responseText);

            console.log(currency);

            buildcurrency(currency);

        }

    };

     url = 'https://api.exchangeratesapi.io/latest?base=USD'

    xmlhttp.open("GET", url, true);

    xmlhttp.send();

}

function buildcurrency(currency){

    let workspace = document.getElementById("content");

    workspace.innerHTML = "";

    let h1 = document.createElement('h3');

    let text = document.createTextNode("1 USD = \n ");

    h1.appendChild(text);

    workspace.append(h1);

    let h3 = document.createElement('h3');

    text = document.createTextNode(currency.rates.CAD + " Canadian Dollars");

    h3.appendChild(text);

    workspace.appendChild(h3);

    // Add 4 more currencies here.

    h3 = document.createElement('h3');

    text = document.createTextNode(currency.rates.JPY + " Japanese Yen");

    h3.appendChild(text);

    workspace.appendChild(h3);

    h3 = document.createElement('h3');

    text = document.createTextNode(currency.rates.IDR + " Indonesian Rupiah");

    h3.appendChild(text);

    workspace.appendChild(h3);

    h3 = document.createElement('h3');

    text = document.createTextNode(currency.rates.PHP + " Philippine Peso");

    h3.appendChild(text);

    workspace.appendChild(h3);

    h3 = document.createElement('h3');

    text = document.createTextNode(currency.rates.EUR + " Euros");

    h3.appendChild(text);

    workspace.appendChild(h3);

}

**Map.js**

var domap = function() { //This function should be used to build the map in the content element

    let workspace = document.getElementById("content");

    workspace.innerHTML = "";

    let h1 = document.createElement('h1');

    let text = document.createTextNode("Maps");

    h1.appendChild(text);

    workspace.append(h1);

    var map = document.createElement('iframe');

workspace.setAttribute("iframe", map);

workspace.appendChild(map);

}

function myMap() {

    var mapProp= {

      center:new google.maps.LatLng(51.508742,-0.120850),

      zoom:5,

    };

    var map = new google.maps.Map(document.getElementById("googleMap"),mapProp);

    }

    src="https://maps.googleapis.com/maps/api/js?key=d769f4675a3ac80235ff8faa8eb100a3&callback=myMap"