**code.gs**

function doGet(e) {

return HtmlService.createHtmlOutputFromFile('WebAppBoot');

}

function uuid() {

var uuid\_array = [];

var url = 'https://docs.google.com/spreadsheets/d/18tbp70thH0tW252IRmYV417N3lalO3I3QJ9FPgpM7gY/edit#gid=0'

var ss= SpreadsheetApp.openByUrl(url);

var dataSheet = ss.getSheetByName("DATA");

var getLastRow = dataSheet.getLastRow();

if(getLastRow > 1) {

var uuid\_values = dataSheet.getRange(2, 1, getLastRow - 1, 1).getValues();

for(i = 0; i < uuid\_values.length; i++)

{

uuid\_array.push(uuid\_values[i][0]);

}

var x\_count = 0;

do {

var y = 'false';

var uuid\_value = Utilities.getUuid();

if(uuid\_array.indexOf(uuid\_value) == -1.0)

{

y = 'true';

Logger.log(uuid\_value);

return uuid\_value;

}

x\_count++;

} while (y == 'false' && x\_count < 5);

} else {

return Utilities.getUuid();

}

}

function UpdateRecord(record\_id, firstname, lastname, street, city, state, zip, email) {

var url = 'https://docs.google.com/spreadsheets/d/18tbp70thH0tW252IRmYV417N3lalO3I3QJ9FPgpM7gY/edit#gid=0'

var ss= SpreadsheetApp.openByUrl(url);

var dataSheet = ss.getSheetByName("DATA");

var getLastRow = dataSheet.getLastRow();

var table\_values = dataSheet.getRange(2, 1, getLastRow - 1, 8).getValues();

for(i = 0; i < table\_values.length; i++)

{

if(table\_values[i][0] == record\_id)

{

dataSheet.getRange(i+2, 2).setValue(firstname);

dataSheet.getRange(i+2, 3).setValue(lastname);

dataSheet.getRange(i+2, 4).setValue(street);

dataSheet.getRange(i+2, 5).setValue(city);

dataSheet.getRange(i+2, 6).setValue(state);

dataSheet.getRange(i+2, 7).setValue(zip);

dataSheet.getRange(i+2, 8).setValue(email);

}

}

return 'SUCCESS';

}

function DeleteRecord(record\_id)

{

var url = 'https://docs.google.com/spreadsheets/d/18tbp70thH0tW252IRmYV417N3lalO3I3QJ9FPgpM7gY/edit#gid=0'

var ss= SpreadsheetApp.openByUrl(url);

var dataSheet = ss.getSheetByName("DATA");

var getLastRow = dataSheet.getLastRow();

var table\_values = dataSheet.getRange(2, 1, getLastRow - 1, 8).getValues();

for(i = 0; i < table\_values.length; i++)

{

if(table\_values[i][0] == record\_id)

{

var rowNumber = i+2;

dataSheet.getRange('A' + rowNumber +':I' + rowNumber).clearContent();

}

}

return 'SUCCESS';

}

function AddRecord(firstname, lastname, street, city, state, zip, email) {

var uniqueID = uuid();

var found\_record = false;

var url = 'https://docs.google.com/spreadsheets/d/18tbp70thH0tW252IRmYV417N3lalO3I3QJ9FPgpM7gY/edit#gid=0'

var ss= SpreadsheetApp.openByUrl(url);

var dataSheet = ss.getSheetByName("DATA");

var getLastRow = dataSheet.getLastRow();

for(i = 2; i < getLastRow; i++)

{

if(dataSheet.getRange(i, 1).getValue() == '')

{

dataSheet.getRange('A' + i + ':I' + i).setValues([[uniqueID, firstname, lastname, street, city, state, zip, email, new Date()]]);

found\_record = true;

break;

}

}

if(found\_record == false)

{

dataSheet.appendRow([uniqueID, firstname, lastname, street, city, state, zip, email, new Date()]);

}

return 'SUCCESS';

}

function searchRecords(firstname, lastname, street, city, state, zip, email)

{

var returnRows = [];

var allRecords = getRecords();

allRecords.forEach(function(value, index) {

var evalRows = [];

if(firstname != '')

{

if(value[1].toUpperCase() == firstname.toUpperCase()) {

evalRows.push('true');

} else {

evalRows.push('false');

}

}

else

{

evalRows.push('true');

}

if(lastname != '')

{

if(value[2].toUpperCase() == lastname.toUpperCase()) {

evalRows.push('true');

} else {

evalRows.push('false');

}

}

else

{

evalRows.push('true');

}

if(street != '')

{

if(value[3].toUpperCase() == street.toUpperCase()) {

evalRows.push('true');

} else {

evalRows.push('false');

}

}

else

{

evalRows.push('true');

}

if(city != '')

{

if(value[4].toUpperCase() == city.toUpperCase()) {

evalRows.push('true');

} else {

evalRows.push('false');

}

}

else

{

evalRows.push('true');

}

if(state != '')

{

if(value[5].toUpperCase() == state.toUpperCase()) {

evalRows.push('true');

} else {

evalRows.push('false');

}

}

else

{

evalRows.push('true');

}

if(zip != '')

{

if(value[6] == zip) {

evalRows.push('true');

} else {

evalRows.push('false');

}

}

else

{

evalRows.push('true');

}

if(email != '')

{

if(value[7].toUpperCase() == email.toUpperCase()) {

evalRows.push('true');

} else {

evalRows.push('false');

}

}

else

{

evalRows.push('true');

}

if(evalRows.indexOf("false") == -1)

{

returnRows.push(value);

}

});

return returnRows;

}

function getRecords() {

var return\_Array = [];

var url = 'https://docs.google.com/spreadsheets/d/18tbp70thH0tW252IRmYV417N3lalO3I3QJ9FPgpM7gY/edit#gid=0'

var ss= SpreadsheetApp.openByUrl(url);

var dataSheet = ss.getSheetByName("DATA");

var getLastRow = dataSheet.getLastRow();

for(i = 2; i <= getLastRow; i++)

{

if(dataSheet.getRange(i, 1).getValue() != '')

{

return\_Array.push([dataSheet.getRange(i, 1).getValue(),

dataSheet.getRange(i, 2).getValue(),

dataSheet.getRange(i, 3).getValue(),

dataSheet.getRange(i, 4).getValue(),

dataSheet.getRange(i, 5).getValue(),

dataSheet.getRange(i, 6).getValue(),

dataSheet.getRange(i, 7).getValue(),

dataSheet.getRange(i, 8).getValue()]);

}

}

return return\_Array;

}

**WebAppBoot.html**

<!DOCTYPE html>

<html>

<head>

<base target="\_top">

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"

integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">

<script>

function AddRow()

{

document.getElementById("add\_button").disabled = true;

var firstname = document.getElementById("firstname").value;

var lastname = document.getElementById("lastname").value;

var street = document.getElementById("street").value;

var city = document.getElementById("city").value;

var state = document.getElementById("state").value;

var zip = document.getElementById("zip").value;

var email = document.getElementById("email").value;

if(firstname != '' && lastname != '' && street != '' && city != '' && state != '' && zip != '' && email != '')

{

google.script.run.withSuccessHandler(function(return\_string)

{

SearchRecords();

document.getElementById("add\_button").disabled = false;

}).AddRecord(firstname, lastname, street, city, state, zip, email);

}

else

{

document.getElementById("display\_error").innerHTML = "Please Enter All Information!";

document.getElementById("add\_button").disabled = false;

}

}

function ClearRecord()

{

document.getElementById("firstname").value = '';

document.getElementById("lastname").value = '';

document.getElementById("street").value = '';

document.getElementById("city").value = '';

document.getElementById("state").value = '';

document.getElementById("zip").value = '';

document.getElementById("email").value = '';

document.getElementById("display\_error").innerHTML = "";

}

function UpdateRecord(row\_number)

{

document.getElementById("update\_button"+row\_number).disabled = true;

var record\_id = document.getElementById("up\_record\_id"+row\_number).value;

var firstname = document.getElementById("up\_firstname"+row\_number).value;

var lastname = document.getElementById("up\_lastname"+row\_number).value;

var street = document.getElementById("up\_street"+row\_number).value;

var city = document.getElementById("up\_city"+row\_number).value;

var state = document.getElementById("up\_state"+row\_number).value;

var zip = document.getElementById("up\_zip"+row\_number).value;

var email = document.getElementById("up\_email"+row\_number).value;

google.script.run.withSuccessHandler(function(return\_string)

{

document.getElementById("update\_button"+row\_number).disabled = false;

}).UpdateRecord(record\_id, firstname, lastname, street, city, state, zip, email);

}

function DeleteRecord(row\_number)

{

var record\_id = document.getElementById("up\_record\_id"+row\_number).value;

google.script.run.withSuccessHandler(function(return\_string)

{

if(return\_string == 'SUCCESS')

{

document.getElementById('mainTable').deleteRow(document.getElementById('ROWNUMBER:'+row\_number).rowIndex);

}

}).DeleteRecord(record\_id);

}

function SearchRecords()

{

var firstname = document.getElementById("firstname").value;

var lastname = document.getElementById("lastname").value;

var street = document.getElementById("street").value;

var city = document.getElementById("city").value;

var state = document.getElementById("state").value;

var zip = document.getElementById("zip").value;

var email = document.getElementById("email").value;

var row\_number = 0;

google.script.run.withSuccessHandler(function(ar)

{

console.log(ar);

var displayTable = '<form>';

displayTable += '<table class=\"table\" id=\"mainTable\" >';

displayTable += "<tr>";

displayTable += "<th>Name</th>";

displayTable += "<th>Address</th>";

displayTable += "<th>Email</th>";

displayTable += "<th></th>";

displayTable += "</tr>";

ar.forEach(function(item, index)

{

displayTable += "<tr id=\"ROWNUMBER:"+ row\_number +"\" >";

displayTable += "<td><div class=\"form-row\"><div class=\"form-group col-md-12\" ><label for=\"up\_firstname\">First</label> ";

displayTable += "<input type=\"text\" id=\"up\_firstname"+ row\_number +"\" value=\""+item[1]+"\" class=\"form-control\" /> ";

displayTable += "<input type=\"hidden\" id=\"up\_record\_id"+ row\_number +"\" value=\""+item[0]+"\" /></div></div> ";

displayTable += "<div class=\"form-row\"><div class=\"form-group col-md-12\"><label for=\"up\_lastname\">Last</label> ";

displayTable += "<input type=\"text\" id=\"up\_lastname"+ row\_number +"\" value=\""+item[2]+"\" class=\"form-control\" /></div></div></td> ";

displayTable += "<td><div class=\"form-row\"><div class=\"form-group col-md-12\"><label for=\"up\_street\">Street</label> ";

displayTable += "<input type=\"text\" id=\"up\_street"+ row\_number +"\" value=\""+item[3]+"\" class=\"form-control\" /></div></div> ";

displayTable += "<div class=\"form-row\"><div class=\"form-group col-md-6\"><label for=\"up\_city\">City</label> ";

displayTable += "<input type=\"text\" id=\"up\_city"+ row\_number +"\" value=\""+item[4]+"\" class=\"form-control\" /></div> ";

displayTable += "<div class=\"form-group col-md-4\"><label for=\"up\_state\">State</label> ";

displayTable += "<input type=\"text\" id=\"up\_state"+ row\_number +"\" value=\""+item[5]+"\" class=\"form-control\" /></div> ";

displayTable += "<div class=\"form-group col-md-2\"><label for=\"up\_zip\">Zip</label> ";

displayTable += "<input type=\"text\" id=\"up\_zip"+ row\_number +"\" value=\""+item[6]+"\" class=\"form-control\" /></div></div> ";

displayTable += "<td><div class=\"form-row\"><div class=\"form-group col-md-12\" ><label for=\"up\_email\">Email</label> ";

displayTable += "<input type=\"text\" id=\"up\_email"+ row\_number +"\" value=\""+item[7]+"\" class=\"form-control\" /></div></div></td> ";

displayTable += "<td><div style=\"padding: 5px\"> ";

displayTable += "<input type=\"button\" id=\"update\_button"+ row\_number +"\" value=\"Update\" class=\"btn btn-primary\" ";

displayTable += "onclick=\"UpdateRecord("+row\_number+")\" /></div> ";

displayTable += "<div style=\"padding: 5px\" > ";

displayTable += "<input type=\"button\" value=\"Delete\" id=\"delete\_button"+ row\_number +"\" class=\"btn btn-primary\" ";

displayTable += "onclick=\"DeleteRecord("+row\_number+")\" /></div> ";

displayTable += "</td>";

displayTable += "</tr>";

row\_number++;

});

displayTable += '</table></form>';

document.getElementById("rowdata").innerHTML = displayTable;

}).searchRecords(firstname, lastname, street, city, state, zip, email);

}

</script>

</head>

<body>

<div style="padding: 10px;" >

<form>

<div class="form-row">

<div class="form-group col-md-3">

<label for="firstname">First Name</label>

<input type="text" id="firstname" class="form-control" />

</div>

<div class="form-group col-md-3">

<label for="lastname">Last Name</label>

<input type="text" id="lastname" class="form-control" />

</div>

</div>

<div class="form-row">

<div class="form-group col-md-6">

<label for="street">Street</label>

<input type="text" id="street" class="form-control" />

</div>

</div>

<div class="form-row">

<div class="form-group col-md-3">

<label for="city">City</label>

<input type="text" id="city" class="form-control" />

</div>

<div class="form-group col-md-2">

<label for="state">State</label>

<input type="text" id="state" class="form-control" />

</div>

<div class="form-group col-md-1">

<label for="zip" >Zip</label>

<input type="text" id="zip" class="form-control" />

</div>

</div>

<div class="form-row">

<div class="form-group col-md-3">

<label for="email" >Email</label>

<input type="text" id="email" class="form-control "/>

</div>

</div>

<div class="form-group col-md-6">

<input type="button" value="Search" class="btn btn-primary" onclick="SearchRecords()" />

<input type="button" value="Add Record" class="btn btn-primary" onclick="AddRow()" id="add\_button" />

<input type="button" value="Clear Record" class="btn btn-primary" onclick="ClearRecord()" />

<div id="display\_error" style="color: red" ></div>

</div>

</form>

<div id="rowdata"></div>

</div>

</body>

</html>