

## Lab Assignment 11 - Dashboards

### Problem Statement 1:-

In teams of 2 or 3 or as an individual, create a dashboard keeping in mind the key pointers discussed in class. Take a dataset snippet from UCI repository or Kaggle for the same..

### Algorithm/ Code :

```
// Index.html

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dashboard</title>
  <link rel="stylesheet" href="style.css">
  <!-- Color : #f07d51, #1b1a18, #312d2a -->
</head>

<body>
  <nav>
    <h1 class="nav-heading">Country List</h1>
    <input type="text" id="find_country">
    <ul class="nav-country-list" id="countryList">

      </ul>
    </nav>
    <main>
      <section class="main_section">
        <section class="main-chart">
          <h1 class="main-h1-heading">Covid - 19 Case study </h1>
          <h1 class="main-heading">Country Name : <span id="country_name"></span></h1>
          <div class="chart-div">
            </div>
          </section>
          <section class="side-bar">
            <div class="info-card">
              <!-- asdf -->
              <h3>Max Case</h3>
              <div id="max_case">
                2500
              </div>
            </div>
          </section>
        </main>
      </section>
    </body>
  </html>
```

```
</div>
</div>
<div class="info-card">
  <!-- asdf -->
  <h3>Max Case Date</h3>
  <div id="max_case_date">
    12-03-2022
  </div>
</div>
<div class="info-card">
  <!-- asdf -->
  <h3>Average Cases</h3>
  <div id="avg_case">
    12-03-2022
  </div>
</div>
</section>
</section>
</main>

</body>
<script src="https://cdn.jsdelivr.net/npm/apexcharts"></script>
<script src="script.js"></script>

</html>

// Style.css

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

:root {
  --orange: #f07d51;
  --text-white: #fff;
}

body {
  display: flex;
  flex-direction: row;
}

nav {
  display: inline-block;
  color: var(--text-white);
```

```
width: 300px;
height: 100vh;
padding: 30px 30px 10px;
border: 1px solid black;
background-color: var(--orange);
overflow-y: auto;
overflow-x: hidden;
}

.nav-heading {
  font-weight: 900;
  font-size: 1.5em;
  text-align: center;
  padding: 15px;
  margin: 20px 0 30px;
  border-bottom: 2px solid var(--text-while);
}

.active {
  font-size: 1.2rem;
  border-bottom: 1px solid var(--text-while);
}

#find_country {
  display: block;
  padding: 10px;
  border-radius: 3px;
  font-size: 18px;
  border: none;
}

#find_country:focus {
  border: 1px solid var(--orange);
  outline: 1px solid var(--orange);
}

.nav-country-list {
  font-weight: 600;
  /* list-style: none; */
}

.nav-country-list li {
  font-size: 1.2rem;
  margin: 5px 20px;
  cursor: pointer;
}
```

```
main {
  display: inline-block;
  width: calc(100% - 300px);
  height: 100vh;
}

.main_section {
  display: flex;
  flex-direction: row;
  flex-wrap: wrap;
}

.main_section section {
  height: 100vh;
}

.main-chart {
  width: 70%;
  padding: 20px 30px;
}

.main-h1-heading {
  font-size: 3em;
  border-bottom: 1px solid #000;
  margin-bottom: 50px;
}

.main-heading {
  font-size: 2em;
  border-bottom: 2px solid #000;
  margin: 20px 30px 10px 30px;
  padding: 10px;
}

.chart-div {
  /* border: 1px solid #000; */
  height: 400px;
  margin: 50px auto;
}

.side-bar {
  width: 30%;
  padding: 10px 20px;
}

.info-card {
  padding: 10px 20px;
}
```

```
border-radius: 5px;
border: 1px solid black;
height: 25vh;
margin: 5vh 0;
}

.info-card h3 {
border-bottom: 1px solid #000;
padding: 5px 20px;
}

.info-card div {
font-size: 30px;
height: 100px;
display: flex;
justify-content: center;
align-items: center;
}

// script.js

function csvToArray(str, delimiter = ",") {
// slice from start of text to the first \n index
// use split to create an array from string by delimiter
const headers = str.slice(0, str.indexOf("\n")).split(delimiter);

// slice from \n index + 1 to the end of the text
// use split to create an array of each csv value row
const rows = str.slice(str.indexOf("\n") + 1).split("\n");

// Map the rows
// split values from each row into an array
// use headers.reduce to create an object
// object properties derived from headers:values
// the object passed as an element of the array
const arr = rows.map(function (row) {
const values = row.split(delimiter);
const el = headers.reduce(function (object, header, index) {
object[header] = values[index];
return object;
}, {});
return el;
});

// return the array
return arr;
}
```

```
var country = Array();
var mainData;
fetch('Data/full_grouped.csv').then(respons => respons.text())
  .then(data => {
    mainData = csvToArray(data);
    console.log(mainData);
    let back = mainData[0]["Country/Region"];
    country.push(mainData[0]["Country/Region"])

    for (i = 1; i < mainData.length; i++) {
      if (back == mainData[i]["Country/Region"]) {
        break;
      }
      country.push(mainData[i]["Country/Region"])
    }
    console.log(mainData[0]["Country/Region"]);
    setCountry(country);
    updateChart("Afghanistan");

    document.querySelectorAll("#countryList li").forEach(li => {
      li.onclick = function () {
        console.log(this.dataset.name);
        updateChart(this.dataset.name);
        if (document.querySelector(".active") != null) {
          document.querySelector(".active").classList.remove("active");
        }
        this.classList.add("active");

        document.querySelectorAll("#countryList li").forEach(li => {
          li.style.display = "block";
        })
        document.querySelector("#find_country").value = "";
      }
    })
  })
  .catch(error => {
    console.log("Error : ");
    console.log(error);
  })

function setCountry(list) {

  let listUL = document.querySelector("#countryList");
  listUL.innerHTML = "";
  for (i = 0; i < list.length; i++) {
    let li = document.createElement("li");
    li.innerHTML = list[i];
```

```
        li.dataset.name = list[i];
        listUL.appendChild(li);
    }
}

function extrentData(conName) {
    let max_case = 0;
    let max_case_date = "";
    let total = 0;
    let activate_case = Array();
    let new_case = Array();
    let confirm = Array();
    let deaths = Array();
    let new_recover = Array();
    let new_death = Array();
    let date = Array();
    for (i = 0; i < mainData.length; i++) {
        if (mainData[i]["Country/Region"] == conName) {
            // if (mainData[i]["Confirmed"] < 2000) {
            //     continue;
            // }
            if (max_case < mainData[i]["Confirmed"]) {
                max_case = mainData[i]["Confirmed"];
                max_case_date = mainData[i]["Date"];
            }
            total += parseInt(mainData[i]["Confirmed"]);
            date.push(mainData[i]["Date"]);
            confirm.push(mainData[i]["Confirmed"]);
            activate_case.push(mainData[i]["Active"]);
            deaths.push(mainData[i]["Deaths"]);
            new_case.push(mainData[i]["New cases"]);
            new_death.push(mainData[i]["New deaths"]);
            new_recover.push(mainData[i]["New recovered"]);
        }
    }
    let obj = {
        "date": date,
        "confirm": confirm,
        "deaths": deaths,
        "activate_case": activate_case,
        "new_case": new_case,
        "new_death": new_death,
        "new_recover": new_recover,
        "max_case": max_case,
        "max_case_date": max_case_date,
        "total": total,
    }
```

```
}
return obj;
}

function updateChart(conName) {

    let obj = extrentData(conName);
    document.querySelector(".chart-div").innerHTML = "";
    document.querySelector("#max_case").innerHTML = obj.max_case;
    document.querySelector("#max_case_date").innerHTML = obj.max_case_date;
    document.querySelector("#country_name").innerHTML = conName;
    document.querySelector("#avg_case").innerHTML = parseInt(obj.total / obj.date.length);
    // console.log(document.querySelector("#country_name"));

    var options = {
        chart: {
            height: 350,
            type: "line",
        },
        dataLabels: {
            enabled: false,
            hover: {
                enabled: true
            }
        },
    },
    // colors: ["#0f0f0f", "#ff0000", "orange", "#ff0000", "#0000ff"],
    series: [
        {
            name: "Confirmed Case",
            data: obj.confirm
        },
        {
            name: "Actvate case",
            data: obj.activate_case
        },
        {
            name: "New case",
            data: obj.new_case
        },
        {
            name: "New Death",
            data: obj.new_death
        },
        {
            name: "New Recovre",
            data: obj.new_recover
        }
    ]
}
```

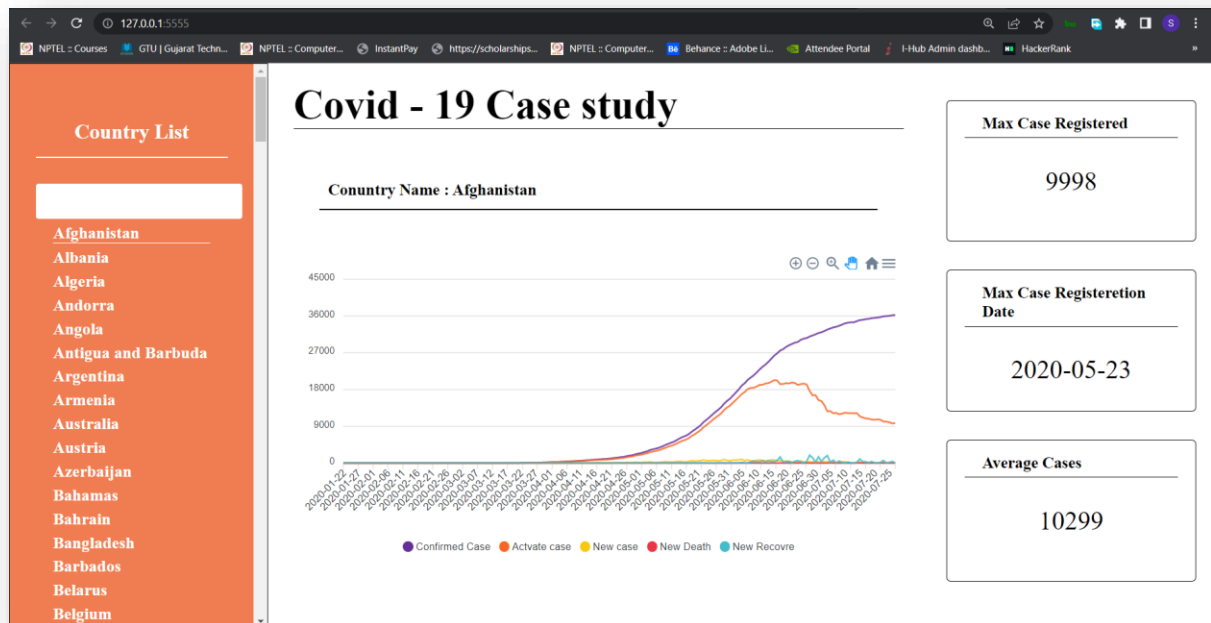


```
    }
  ],
  stroke: {
    width: [2, 2, 2, 2, 2]
  },
  theme: {
    mode: 'light',
    palette: 'palette8',
    monochrome: {
      enabled: false,
      color: '#255aee',
      shadeTo: 'light',
      shadeIntensity: 0.65
    },
  },
  plotOptions: {
    // bar: {
    //   columnWidth: "20%"
    // }
  },
  xaxis: {
    // type: "datetime",
    labels: {
      datetimeFormatter: {
        year: 'yyyy',
        month: 'MMM \'yy',
        day: 'dd MMM',
        hour: 'HH:mm'
      }
    },
    categories: obj.date,
    hideOverlappingLabels: true,
    // min: new Date(2021),
    // max: new Date(2021, 7, 25)
  },
  yaxis: [
    // {
    //   axisTicks: {
    //     show: true
    //   },
    //   axisBorder: {
    //     show: true,
    //     color: "#FF1654"
    //   },
    //   labels: {
    //     style: {
    //       colors: "#FF1654"
```

```
//    }
//  },
//  title: {
//    text: "Series A",
//    style: {
//      color: "#FF1654"
//    }
//  }
// },
// },
],
tooltip: {
  shared: false,
  intersect: true,
  x: {
    show: true
  }
},
legend: {
  horizontalAlign: "center",
}
};
var chart = new ApexCharts(document.querySelector(".chart-div"), options);
chart.render();
}
document.querySelector("#find_country").addEventListener("keyup", function () {
  let val = this.value;
  console.log(val);
  if (val != "") {
    document.querySelectorAll("#countryList li").forEach(li => {
      let temp = li.innerHTML;
      if (temp.indexOf(val) > -1) {
        li.style.display = "block";
      }
      else {
        li.style.display = "none";
      }
    })
  }
  else {
    document.querySelectorAll("#countryList li").forEach(li => {
      li.style.display = "block";
    })
  }
})
})
```

Output :

## // Insight of country Afghanistan



## // Insight of country Angola

