

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>
        </section>
      </main>
    </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-while: #fff;
}
body {
    display: flex;
    flex-direction: row;
}
nav {
    display: inline-block;
    color: var(--text-while);
    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;
}
.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 {
  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 = ",") {
  const headers = str.slice(0, str.indexOf("\n")).split(delimiter);
  const rows = str.slice(str.indexOf("\n") + 1).split("\n");
```

```
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 (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 = extrenData(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);
```

```
    var options = {
        chart: {
            height: 350,
            type: "line",
        },
        dataLabels: {
            enabled: false,
            hover: {
                enabled: true
            }
        },
        series: [
            {
                name: "Confirmed Case",
                data: obj.confirm
            },
            {
                name: "Activate case",
                data: obj.activate_case
            },
            {
                name: "New case",
                data: obj.new_case
            },
        ],
    }
```

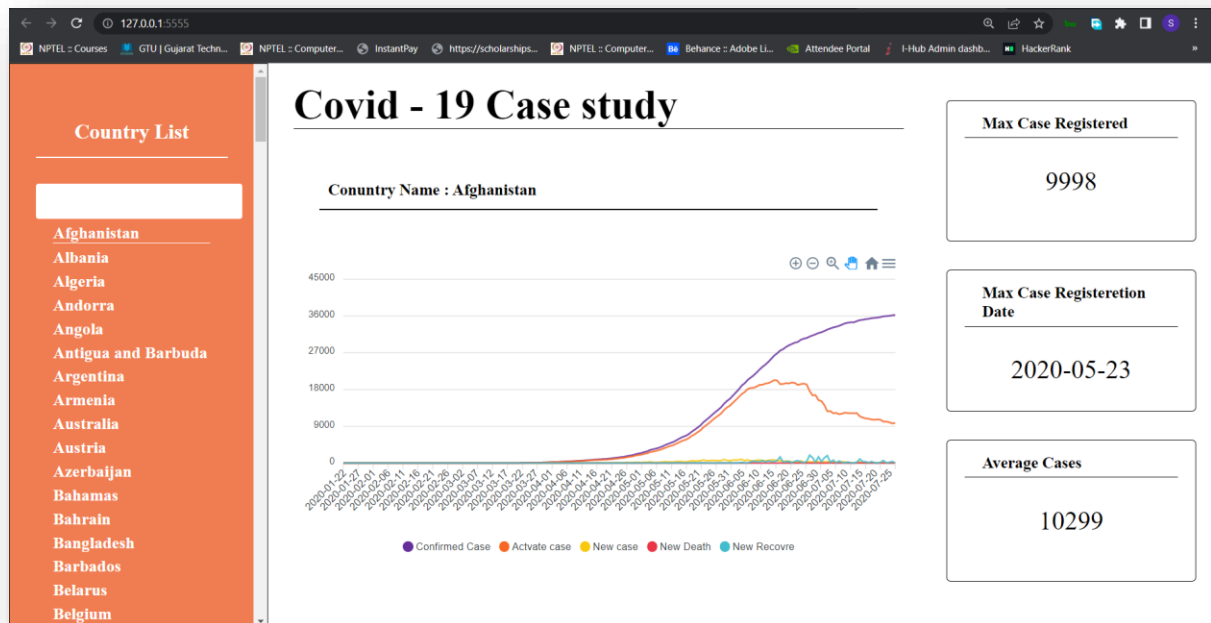
```
{
  name: "New Death",
  data: obj.new_death
},
{
  name: "New Recovre",
  data: obj.new_recover
}
],
stroke: {
  width: [2, 2, 2, 2, 2]
},
theme: {
  mode: 'light',
  palette: 'palette8',
  monochrome: {
    enabled: false,
    color: '#255aee',
    shadeTo: 'light',
    shadeIntensity: 0.65
  },
},
plotOptions: {
},
xaxis: {
  // type: "datetime",
  labels: {
    datetimeFormatter: {
      year: 'yyyy',
      month: 'MMM \'yy',
      day: 'dd MMM',
      hour: 'HH:mm'
    }
  },
},
categories: obj.date,
hideOverlappingLabels: true,
},
yaxis: [
],
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

