## RAJALAKSHMI ENGINEERING COLLEGE RAJALAKSHMI NAGAR, THANDALAM – 602 105



## CS23A34 USER INTERFACE AND DESIGN LAB

**Laboratory Observation Notebook** 

Name: ValluruVarshini

Year/Branch/Section: II/CSE/D

**Register No.**: 230701369

Semester: IV

Academic Year: 2024-25

Ex. No.: 10

Register No.: 230701369 Name: Valluru Varshini

# Create a data visualization (e.g., pie charts, bar graphs) for an inventory management system using javascript

#### AIM:

The aim is to create data visualizations, such as pie charts and bar graphs, for an inventory management system using JavaScript.

#### **PROCEDURE:**

```
Step 1: Set Up Your HTML File
```

First, create an HTML file to hold your canvas for the chart and include Chart.js. html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Inventory Management Visualization</title>
<style> body { fontfamily:
Arial, sans-serif; text-align: center;
margin:
50px;
```

```
}
     canvas {
                     margin:
20px auto;
     }
  </style>
</head>
<body>
  <h1>Inventory Management System</h1>
  <canvas id="pieChart" width="400" height="400"></canvas>
  <canvas id="barChart" width="400" height="400"></canvas>
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <script src="script.js"></script>
</body>
</html>
Step 2: Create the JavaScript File for Charts
Next, create a JavaScript file (script.js) to handle the data visualization logic.
javascript
// script.js
// Data for the inventory const inventoryData = {
['Electronics', 'Clothing', 'Home Appliances', 'Books', 'Toys'],
                                                               datasets:
label: 'Items in Stock',
data: [200, 150, 100, 80, 50],
backgroundColor: [
          '#FF6384',
```

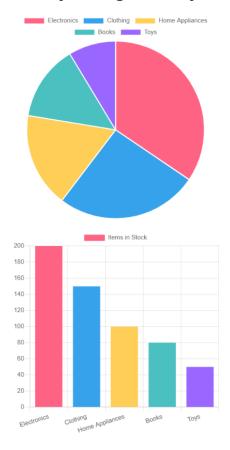
```
'#36A2EB',
          '#FFCE56',
          '#4BC0C0',
          '#9966FF'
       ],
};
// Creating the Pie Chart const ctxPie =
document.getElementById('pieChart').getContext('2d'); const
pieChart = new Chart(ctxPie, {
                                  type: 'pie',
                                                data:
inventoryData,
                  options: {
                                    display:
responsive: true,
                      title: {
true,
            text:
'Inventory Distribution'
     }
  }
});
// Creating the Bar Chart const ctxBar =
document.getElementById('barChart').getContext('2d'); const barChart
= new Chart(ctxBar, { type: 'bar',
                                      data: inventoryData,
                                                              options:
                             title: {
                                           display: true,
{
      responsive: true,
                                                                 text:
'Items in Stock by Category'
     },
            scales: {
                             yAxes:
[{
            ticks: {
beginAtZero: true
```

```
}
}]
};
```

### **OUTPUT:**

i File | C:/Users/varshini/Documents/chart.html

## **Inventory Management System**



## **RESULT:**

Hence we have created data visualizations, such as pie charts and bar graphs, for an inventory management system using JavaScript