RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM - 602 105



CS23A34 USER INTERFACE AND DESIGN LAB

Laboratory Observation Notebook

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Academic Year: 2024-25

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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.

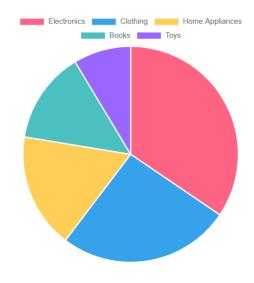
```
html
```

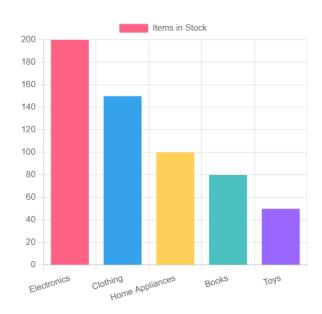
```
canvas {
margin: 20px auto;
  </style>
</head>
<body>
  <h1>Inventory Management System</h1>
  <canvas id="pieChart" width="400" height="400"></canvas>
  <canvas id="barChart" width="400" height="400"></canvas>
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <script src="script.js"></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'
```

```
],
     }
  1
};
// Creating the Pie Chart const ctxPie =
document.getElementById('pieChart').getContext('2d'); const
pieChart = new Chart(ctxPie, {
  type: 'pie',
                data:
inventoryData,
                  options: {
responsive: true,
                       title: {
display: true,
                      text:
'Inventory Distribution'
     }
  }
});
// Creating the Bar Chart const ctxBar =
document.getElementById('barChart').getContext('2d'); const
barChart = new Chart(ctxBar, {
                                   type: 'bar',
                                                  data: inventoryData,
                                                      display: true,
options: {
                responsive: true,
                                       title: {
       text: 'Items in Stock by Category'
     },
            scales: {
yAxes: [{
                     ticks: {
beginAtZero: true
          }
       }]
     }
});
```

OUTPUT:

INVENTORY MANAGEMENT SYSTEM BY 230701382





RESULT:

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