# RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM - 602 105



## CS23A34 USER INTERFACE AND DESIGN LAB

**Laboratory Observation Notebook** 

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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
```

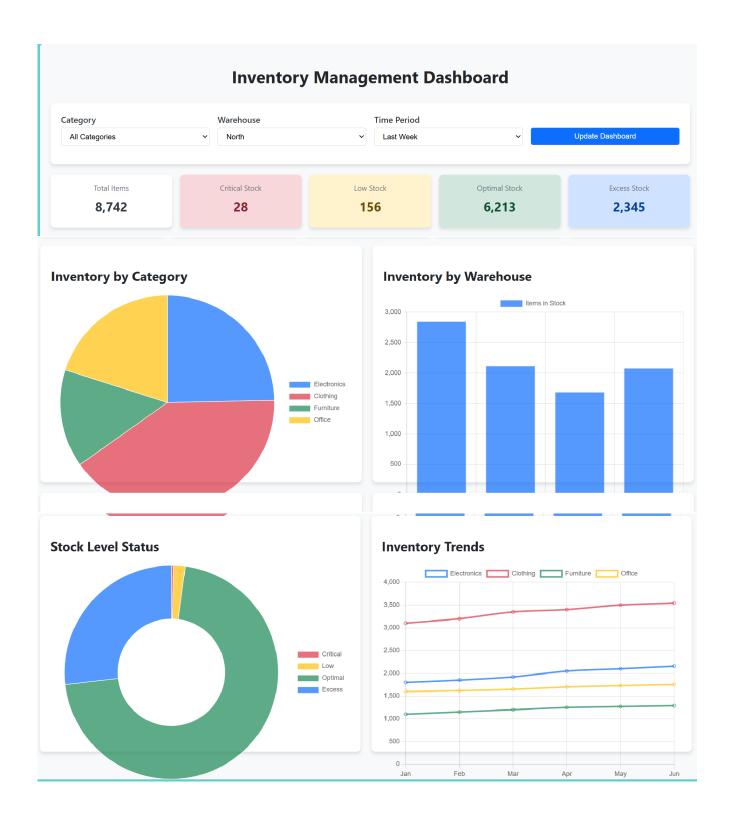
First, create an HTML file to hold your canvas for the chart and include Chart.js. html

```
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 = {
                                                    labels:
['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: {
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,
                                                               options:
      responsive: true,
                                            display: true,
                             title: {
                                                                  text:
'Items in Stock by Category'
     },
            scales: {
                             yAxes:
[{
            ticks: {
beginAtZero: true
          }
```

```
}]
}
};
```

## **OUTPUT:**



### **RESULT:**

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