#### UID EX 10

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#### 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

```
index.html > ...
     <!DOCTYPE html>
     <html lang="en">
     <meta charset="UTF-8">
     <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <title>Inventory Management Visualization</title>
     <style>
     body {
     font-family: Arial, sans-serif;
     text-align: center;
     margin: 50px;
     canvas {
     margin: 20px auto;
     </style>
     </head>
     <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>
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```

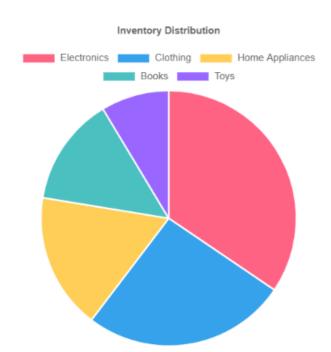
## Step 2:

Create the JavaScript File for Charts Next, create a JavaScript file (script.js) to handle the data visualization logic.

```
JS script.js > ...
      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'
        const ctxPie = document.getElementById('pieChart').getContext('2d');
       new Chart(ctxPie, {
          type: 'pie',
          data: inventoryData,
          options: {
            responsive: true,
            plugins: {
              title: {
                display: true,
                text: 'Inventory Distribution'
        });
        // BAR Chart
        const ctxBar = document.getElementById('barChart').getContext('2d');
       new Chart(ctxBar, {
          type: 'bar',
          data: inventoryData,
          options: {
            responsive: true,
            plugins: {
              title: {
                display: true,
                text: 'Items in Stock by Category'
            scales: {
              y: {
               beginAtZero: true
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        });
```

## **OUTPUT:**

# **Inventory Management System**



#### Items in Stock by Category

