# **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

```
<!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 {
     font-family: 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>
 <!-- Include Chart.js -->
 <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
 <!-- Link to your JS file -->
 <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.

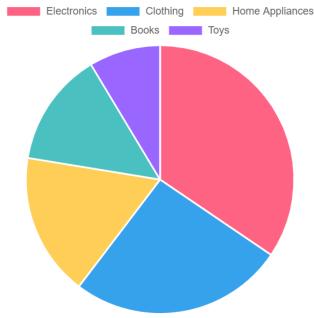
```
// Data for inventory
const inventoryData = {
    labels: ['Electronics', 'Clothing', 'Home Appliances', 'Books', 'Toys'],
    datasets: [{
      label: 'Items in Stock',
      data: [200, 150, 100, 80, 50],
      backgroundColor: [
        '#FF6384', '#36A2EB', '#FFCE56', '#4BC0C0', '#9966FF'
     ]
    }]
  };
  // PIE Chart
  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
});
```

# **OUTPUT:**

# **Inventory Management System**





#### Items in Stock by Category

