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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
```

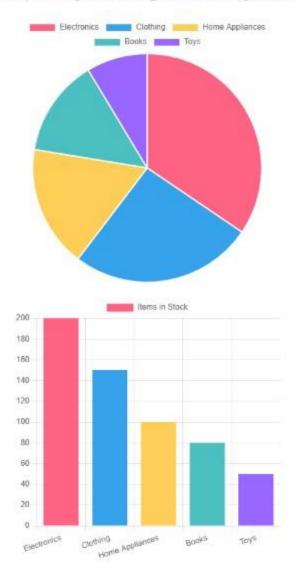
```
<!DOCTYPE html>
<html lang="en">
<head>
        <meta charset="UTF-8">
            <meta name="viewport" content="width=device-width, initial-scale=1.0">
                <title>Inventory Management Visualization</title>
                <tstyle>
body {
                font-family: Arial, sans-serif;
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>
  <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,
```

### **OUTPUT:**

## **Inventory Management System**



# RESULT: Hence, the required output is obtained and verified successfully.