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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,
    title: {
        display: true,
        text: 'Items in Stock by Category'
    },
    scales: {
        yAxes: [{
            ticks: {
                beginAtZero: true
            }
        }]
    }
});
```

Inventory Management System



OUTPUT:

RESULT:

Hence to create data visualizations, such as pie charts and bar graphs, for an inventory management system using java script has been done successfully.