

EXERXCISE-10

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>
<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>
<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  
        }  
      }]  
    }  
  }  
});
```

OUTPUT:

Inventory Management System

