Experiment 11

Index.html

```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>


 <!-- Chart.js CDN -->
```

```html
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>

  <!-- Chart.js Plugin for Data Labels -->

  <script src="https://cdn.jsdelivr.net/npm/chartjs-plugin-datalabels"></script>

  <!-- Your Script -->

  <script src="script.js"></script>
</body>

</html>
```

Script js
```javascript
const inventoryLabels = ['Electronics', 'Clothing', 'Groceries', 'Furniture', 'Stationery', 'Bills'];

const inventoryData = [120, 90, 150, 60, 80, 100];  // Added 100 for Bills

const total = inventoryData.reduce((a, b) => a + b, 0);


const pieCtx = document.getElementById('pieChart').getContext('2d');

const pieChart = new Chart(pieCtx, {
 type: 'pie',
 data: {
  labels: inventoryLabels,
  datasets: [{
   label: 'Inventory Distribution',
   data: inventoryData,
   backgroundColor: [
    '#ff6384', // Electronics
    '#36a2eb', // Clothing
    '#ffcd56', // Groceries
    '#4bc0c0', // Furniture
```
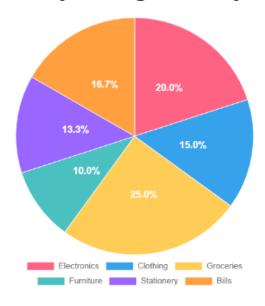
```javascript
      '#9966ff', // Stationery

      '#ff9f40'  // Bills

    ],

    borderColor: '#fff',

    borderWidth: 1

  }]

},

options: {

 responsive: false,

 plugins: {

  legend: {

   position: 'bottom'

  },

  datalabels: {

   color: '#fff',

   formatter: (value) => {

    let percentage = (value / total * 100).toFixed(1);

    return percentage + '%';

   },

   font: {

    weight: 'bold',

    size: 14

   }

  }

 }

},
```

```javascript
    plugins: [ChartDataLabels]

});


const barCtx = document.getElementById('barChart').getContext('2d');
const barChart = new Chart(barCtx, {
  type: 'bar',
  data: {
    labels: inventoryLabels,
    datasets: [{
      label: 'Items in Stock',
      data: inventoryData,
      backgroundColor: [
        '#ff6384', // Electronics
        '#36a2eb', // Clothing
        '#ffcd56', // Groceries
        '#4bc0c0', // Furniture
        '#9966ff', // Stationery
        '#ff9f40'  // Bills
      ],
      borderColor: '#fff',
      borderWidth: 1
    }]
  },
  options: {
    responsive: false,
    plugins: {
```

```
    title: {

      display: true,

      text: 'Inventory Distribution by Category'

     }

    },

    scales: {

     y: {

      beginAtZero: true

     }

    }

  }

});
```

Diagram

Inventory Management System

Electronics | Clothing | Groceries
Furniture | Stationery | Bills

Inventory Distribution by Category

Items in Stock

Electronics | Clothing | Groceries | Furniture | Stationery | Bills