USER INTERFACE DESIGN

EXP. NO: 10

DATE: 02.05.2025

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AIM:

To create a **Weather Data Visualization Dashboard** using **JavaScript** and **Chart.js**.

PROCEDURE:

Step 1:

Setup HTML and Styles

HTML and CSS code:

```
<!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>
<h2> 230701252</h2>
<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="uid.js"></script>
</body>
</html>
```

STEP 2: JavaScript File

JavaScript Code:

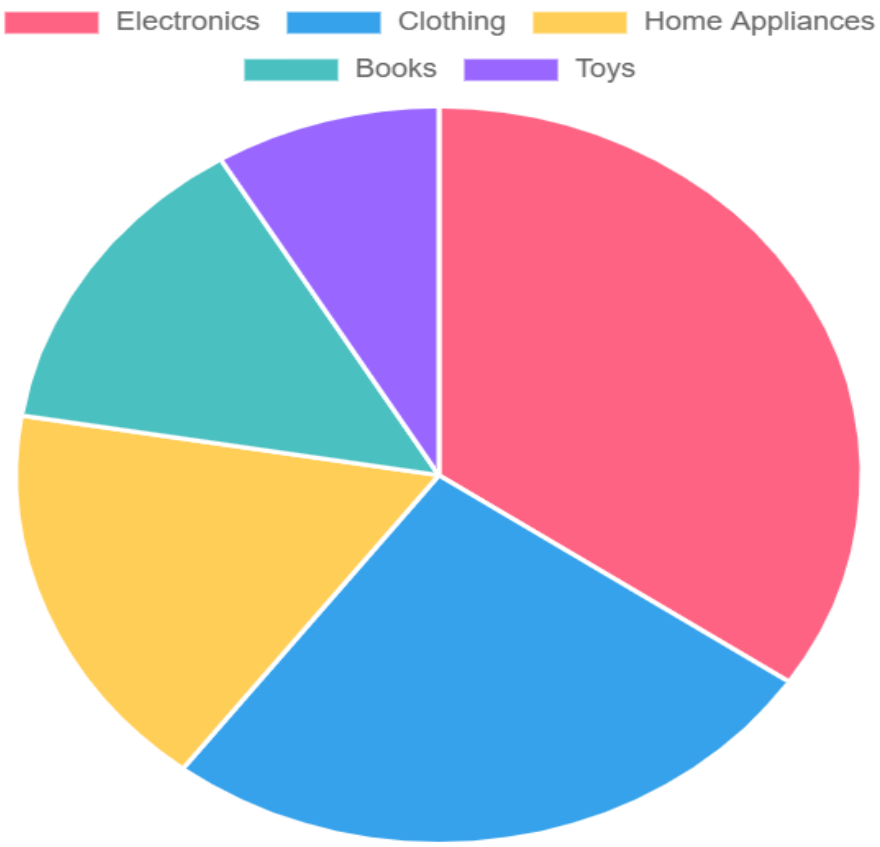
```
const inventoryData = {
    labels: ['Electronics', 'Clothing', 'Home Appliances', 'Books', 'Toys'],
    datasets: [
    {
    label: 'Items in Stock',
    data: [200, 150, 100, 80, 50],
    backgroundColor: [
    '#FF6384',
    '#36A2EB',
    '#FFCE56',
    '#4BC0C0',
    //
    '#9966FF'
    ],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


    // 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,
```

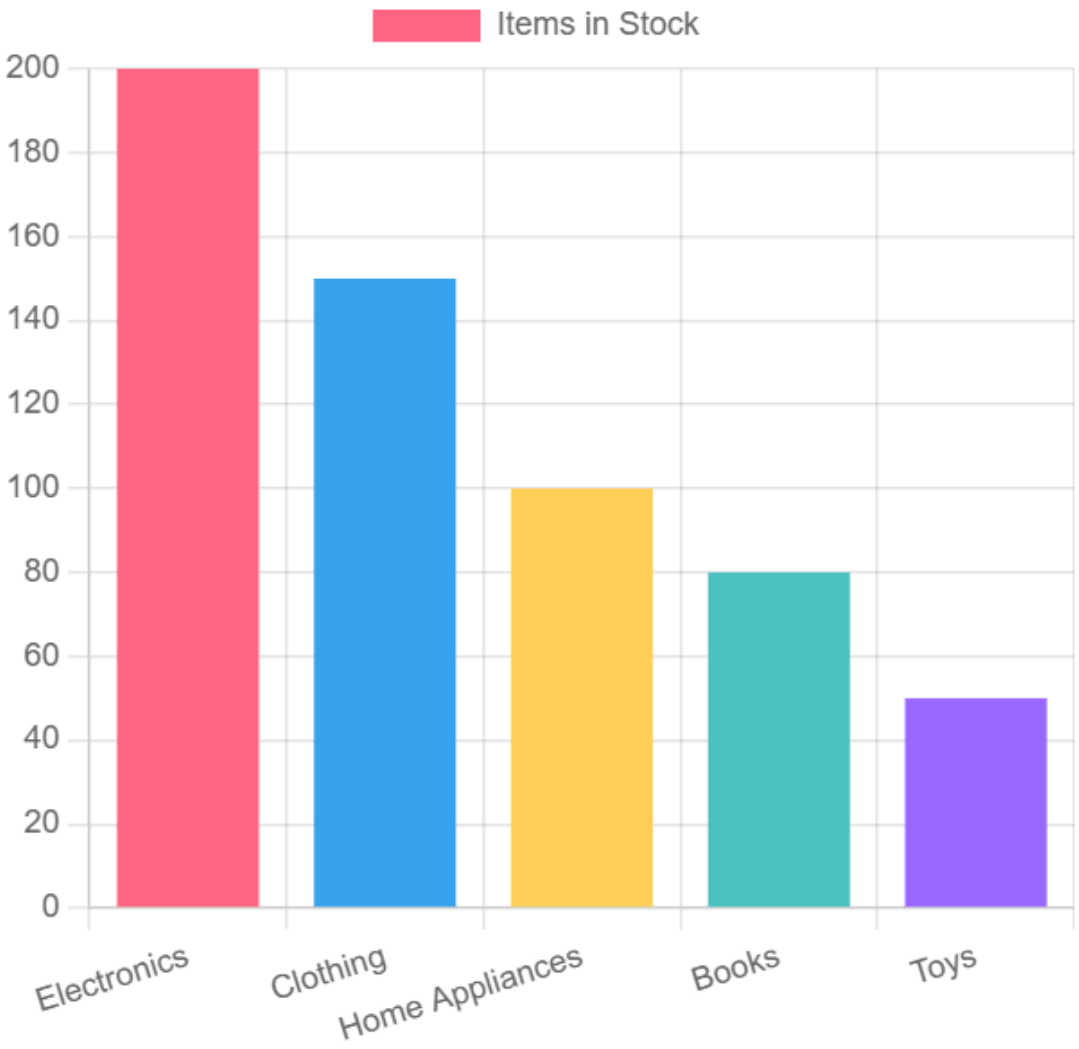
```
    text: 'Inventory Distribution'
    }
    }
    });


    // 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
    }
    }]
    }
    }
    });
```

OUTPUTS:

230701252

Inventory Management System




Items in Stock
200
180
160
140
120
100
80
60
40
20
0
Electronics
Clothing
Home Appliances
Books
Toys