EXP.NO:10

DATE:02.05.2025

USER INTERFACE DESIGN

Roll no:230701257

AIM:

Create a weather data visualization dashboard using JavaScript and Chart.js

PROCEDURE:

Step 1: Setup HTML and Styles

HTML & CSS:

Step 2: JavaScript File (weather.js)

```
// script.js
     // Inventory categories and stock data
 3
 4
     const inventoryData = {
 5
          labels: ['Electronics', 'Clothing', 'Home Appliances', 'Books', 'Toys'],
          datasets: [{
 6
 7
            label: 'Items in Stock',
 8
            data: [200, 150, 100, 80, 50],
 9
            backgroundColor: [
10
               '#FF6384', // Electronics
11
               '#36A2EB', // Clothing
12
               '#FFCE56', // Home Appliances
13
               '#4BC0C0', // Books
14
               '#9966FF' // Toys
15
16
17
        };
18
19
        // PIE CHART
20
        const ctxPie = document.getElementById('pieChart').getContext('2d');
21
       const pieChart = new Chart(ctxPie, {
22
          type: 'pie',
23
          data: inventoryData,
24
          options: {
25
            responsive: true,
26
            plugins: {
27
              title: {
28
                display: true,
29
                text: 'Inventory Distribution'
30
31
32
33
34
35
        // BAR CHART
       const ctxBar = document.getElementById('barChart').getContext('2d');
36
        const barChart = new Chart(ctxBar, {
       const barChart = new Chart(ctxBar, {
         type: 'bar',
data: inventoryData,
 38
40
         options: {
          responsive: true,
41
 42
          plugins:
              display: true,
text: 'Items in Stock by Category'
44
45
46
          },
scales: {
48
49
              beginAtZero: true
 50
52
                                                60 Hz
```

Output:

Inventory Management System

