# RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM – 602 105



### CS23A34 USER INTERFACE AND DESIGN LAB

**Laboratory Observation NoteBook** 

Name: Swetha

Year/Branch/Section: II/CSE/D

**Register No.**: 230701357

Semester: IV

Academic Year: 2024-25

Ex. No. : 14 Date : 07.04.2025

Register No.: 230701357 Name: Swetha.J

## 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: Setting Up the HTML Form

Start by creating an HTML form with input fields for the email and phone number.

#### 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>
```

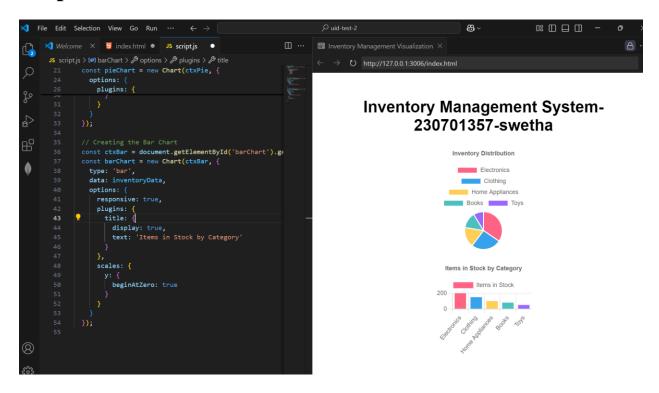
```
body {
   font-family: Arial, sans-serif;
   text-align: center;
   margin: 50px;
  }
  canvas {
   margin: 20px auto;
 </style>
</head>
<body>
 <h1>Inventory Management System-230701357-swetha</h1>
 <canvas id="pieChart" width="400" height="400"></canvas>
 <canvas id="barChart" width="400" height="400"></canvas>
 <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
 <script src="script.js"></script>
```

```
</body>
</html>
Java script
// 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,
   plugins: {
     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,
   plugins: {
     title: {
      display: true,
      text: 'Items in Stock by Category'
    },
   scales: {
     y: {
      beginAtZero: true
 })
```

## **Output:**



#### **Result:**

data visualizations, such as pie charts and bar graphs, for an inventory management system using JavaScript has been done.