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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:

canvas { margin:

20px auto;

Step 1: Set Up Your HTML File

First, create an HTML file to hold your canvas for the chart and include Chart.js. html

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;
}

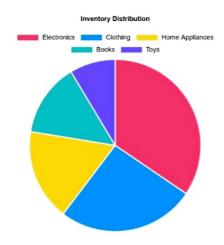
```
}
</style&gt;
</head&gt;
<body&gt;
<h1&gt;Inventory Management System&lt;/h1&gt;
<canvas id=&quot;pieChart&quot; width=&quot;400&quot;
height="400"></canvas&gt;
<canvas id=&quot;barChart&quot; width=&quot;400&quot;
height="400"></canvas&gt;
<script
src="https://cdn.jsdelivr.net/npm/chart.js"></script&gt;
<script src=&quot;script.js&quot;&gt;&lt;/script&gt;
</body&gt;
</html&gt;
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: [
{
```

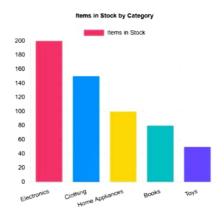
```
label: 'Items in Stock', data:
[200, 150, 100, 80, 50],
backgroundColor: [
'#FF6384',
'#36A2EB',
'#FFCE56',
'#4BC0C0',
'#9966FF'
],
}]
};
// Creating the Pie Chart
const
                               ctxPie
document.getElementById('pieChart').getContext('2d');
const pieChart = new Chart(ctxPie, {
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





RESULT:

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