

```
// dashboard.js

const express = require("express");

const app = express();

const PORT = 3000;


// Backend API (sends data to frontend)

app.get("/api/data", (req, res) => {

  const metrics = {

    months: ["Jan", "Feb", "Mar", "Apr", "May", "Jun"],

    users: [100, 150, 200, 250, 300, 350],

    sales: [50, 70, 90, 120, 160, 200],

    views: [300, 400, 500, 600, 700, 800],

  };

  res.json(metrics);

});


// Frontend (HTML + CSS + JS in one response)

app.get("/", (req, res) => {
```

```
res.send(`

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta name="viewport" content="width=device-
width, initial-scale=1.0" />

  <title>Admin Dashboard with Charts</title>

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

  <style>

    body {

      font-family: Arial, sans-serif;

      background-color: #f4f6f9;

      text-align: center;

      margin: 0;

      padding: 0;

    }

    .container {
```

```
padding: 20px;
```

```
}
```

```
h1 {
```

```
color: #333;
```

```
}
```

```
.chart-box {
```

```
background: #fff;
```

```
margin: 20px auto;
```

```
padding: 20px;
```

```
border-radius: 10px;
```

```
width: 80%;
```

```
max-width: 600px;
```

```
box-shadow: 0 2px 10px rgba(0,0,0,0.1);
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h1>🏠 Admin Dashboard</h1>
```

```
<p>Backend + Frontend in One File</p>
```

```
<div class="chart-box">
```

```
  <canvas id="userChart"></canvas>
```

```
</div>
```

```
<div class="chart-box">
```

```
  <canvas id="salesChart"></canvas>
```

```
</div>
```

```
</div>
```

```
<script>
```

```
  async function fetchData() {
```

```
    const res = await fetch('/api/data');
```

```
    const data = await res.json();
```

```
    return data;
```

```
  }
```

```
async function renderCharts() {  
  
    const data = await fetchData();  
  
    // Users Line Chart  
  
    const ctx1 =  
document.getElementById('userChart').getContext('2d');  
  
    new Chart(ctx1, {  
  
        type: 'line',  
  
        data: {  
  
            labels: data.months,  
  
            datasets: [{  
  
                label: 'Users',  
  
                data: data.users,  
  
                borderColor: 'blue',  
  
                borderWidth: 2,  
  
                fill: false  
  
            }]  
    })  
}
```

```
    },  
  
    options: {  
  
        responsive: true,  
  
        plugins: {  
  
            title: { display: true, text: 'User Growth' }  
  
        }  
  
    }  
  
});
```

// Sales Bar Chart

```
const ctx2 =  
document.getElementById('salesChart').getContext('2d');
```

```
new Chart(ctx2, {  
  
    type: 'bar',  
  
    data: {  
  
        labels: data.months,  
  
        datasets: [{  
  
            label: 'Sales',
```

```
        data: data.sales,

        backgroundColor: 'rgba(75, 192, 192, 0.6)'

    }]

},

options: {

    responsive: true,

    plugins: {

        title: { display: true, text: 'Monthly Sales' }

    }

});

}

renderCharts();

</script>

</body>

</html>

`);
```

```
});
```

```
app.listen(PORT, () => {
```

```
  console.log(\✓ Dashboard running at  
http://localhost:\${PORT}\);
```

```
});
```