COMP9900 – Assignment 2: Front-End Development Task

Overview

This task focuses on designing and implementing a responsive **e-commerce analytics dashboard** for monitoring sales, user activity, and product performance.

The dashboard should visualize data dynamically and maintain a clean and professional user interface.

Task Details

Implement user authentication (login/logout) using session handling.

Build a homepage dashboard that displays key metrics: total sales, new users, and daily traffic.

Add visual charts for sales trends, top products, and user engagement.

Use **React.js** or **Vue.js** for front-end implementation, and apply a CSS framework such as **TailwindCSS** or **Bootstrap**.

Ensure full responsiveness for both desktop and mobile devices.

Follow consistent UI design principles and ensure accessibility compliance.

Requirements & Constraints

Use mock data (JSON or mock API) for charts and tables; backend integration is not required.

Optimize rendering performance and minimize redundant re-renders.

Maintain code readability with proper naming and structure.

Estimated total workload: **10–12 hours**.

Deliverables

A fully functional, interactive dashboard with 3–4 data visualizations.

Clean, documented code and a concise README file describing components.