

## Task:3

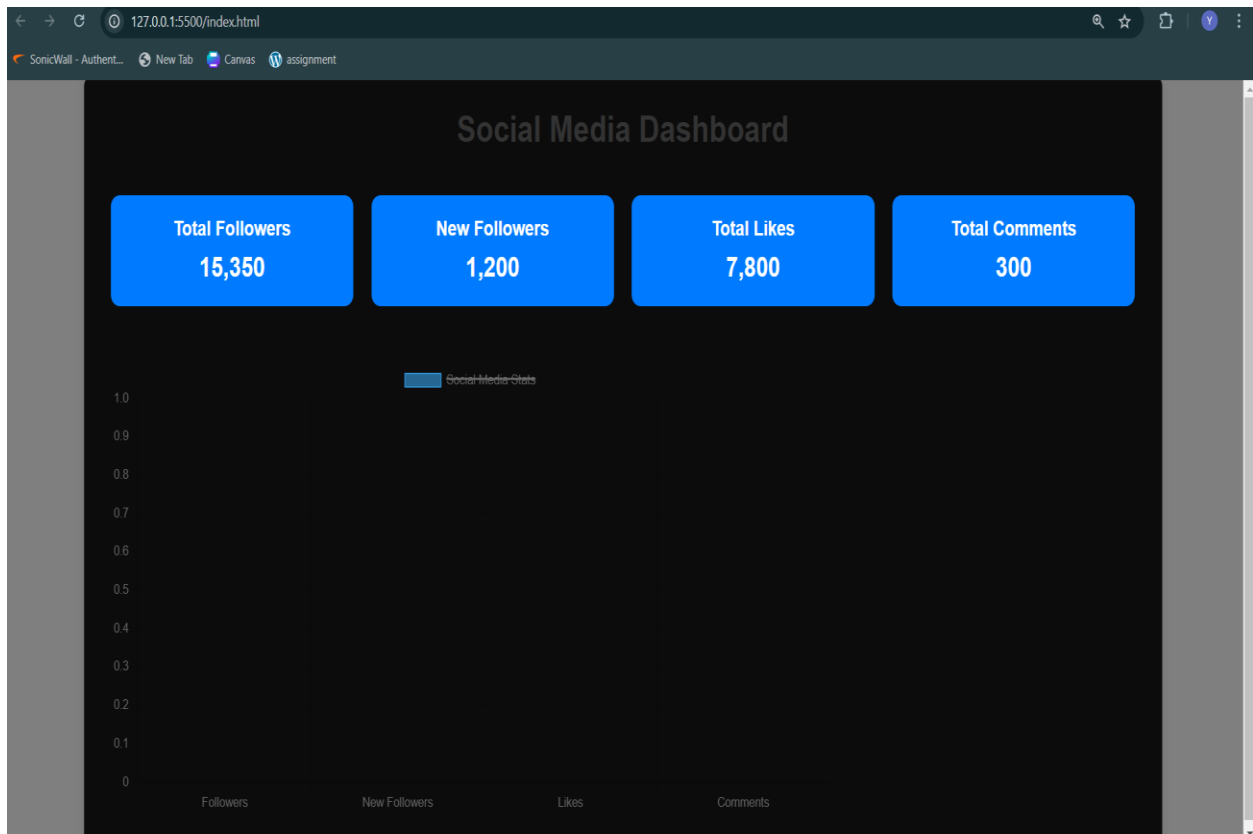
### Task Name: Social Media Dashboard

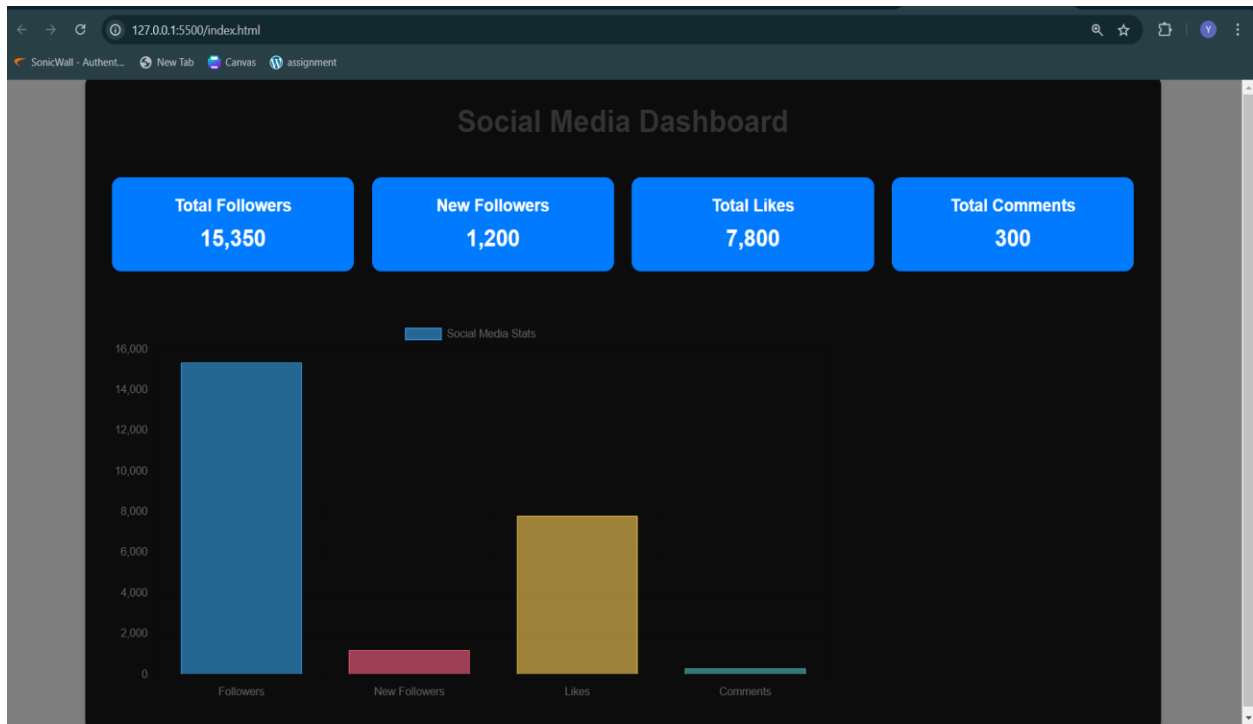
### Project Name: social media page

#### 1. Task Description

The task involves designing a responsive dashboard using **HTML**, **CSS**, and **JavaScript** to display social media analytics and statistics, such as followers, likes, shares, and engagement rates. The dashboard should include various visualizations like charts and progress bars, providing an interactive and clear view of the data. It should be optimized for different devices and include real-time updates where necessary.

#### 2. Task Output Screenshot





### 3. Widget/Algorithm Used In Task

- Charts (e.g., using Chart.js): To display data trends like follower growth, engagement rates, etc.
- Progress Bars: To show progress towards specific goals, like monthly engagement targets.
- Counters: Animated counters to show total followers, likes, or shares.
- Filter Widgets: Dropdowns or date pickers for filtering analytics based on time frames (daily, weekly, monthly).

### 4. Algorithm explanation

- Structure the dashboard layout using HTML and CSS with grids or flexboxes to organize different sections.
- Use **JavaScript** to fetch or mock the social media data (if real API is not available) and dynamically insert it into the dashboard.
  - For visualizing trends, integrate a charting library like **Chart.js** to render line, bar, or pie charts for follower growth, likes, etc.
  - Use **JavaScript** to create animated counters for follower count, likes, shares, and engagement metrics.
  - Implement filter functionality to allow users to view data by specific periods (e.g., last week, last month) using date picker widgets.

- Continuously update the charts and counters in real-time if real-time data is available or simulate live updates with **setInterval** for mock data.

## 5. How to start:

Install Node Module in frontend and backend folder: Go to terminal "npm install" How to Start: Go to terminal "npm run server" OR "npm start".