Stock Analysis Tool Documentation

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1. Introduction

The Stock Analysis Tool is a web application designed to provide users with insights into stock market data. It allows users to view a list of companies, apply filters, and perform searches based on various criteria.

2. Key Features

- **User Authentication:**

  - Login and sign-up functionality to secure user data.

- **Company Data Display:**

  - Display a list of companies with details like name, volume, price, and market capital.

- **Filtering:**

  - Allow users to filter companies based on various criteria, such as revenue, profit, and alphabetical order.

- **Search Functionality:**

  - Implement a search feature for users to find specific companies.

3. Technology Stack

- **Backend:**

  - PHP for server-side scripting.

  - MySQL for the database.

- **Frontend:**

  - HTML, CSS, JavaScript for the user interface.

  - Bootstrap for frontend styling.

4. Pages

- **Login Page:**

  - Allows users to log in with their credentials.

- **Signup Page:**

  - Provides a form for new users to create an account.

- **Logout page:**
  - Displays a confirmation message and provides an option for users to log in again.

- **Companies Page:**

  - Shows a list of companies with details.

- **Search Page:**

  - Implements search functionality for users to find specific companies.

5. Challenges Faced

- **Data Integration:**

  - Integrating data from external sources, such as Excel sheets, posed challenges in terms of consistency and reliability.

- **User Authentication Security:**

  - Ensuring secure user authentication and protecting sensitive user data posed challenges in terms of implementing robust security practices.

6. Tools Used

- **Development Environment:**

  - Visual Studio Code

- **Version Control:**

  - Git and GitHub

- **Database Management:**

  - phpMyAdmin for MySQL database management

- **Deployment:**

  - 000webhost for web application deployment