

Assignment 5 Quant Web

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Objective

Develop a **frontend webpage** for a portfolio website that facilitates users in managing their stock investments by providing real-time market data and customizable investment strategies.

Scope and Features

1. Portfolio Website Frontend:

- Design and implement a user-friendly and visually appealing frontend for a portfolio management website.
- Ensure the webpage is responsive and accessible across different devices and browsers.

2. Past Market Prices:

- Integrate functionality to fetch and display past market prices for selected stocks.
- Provide a search or dropdown feature for users to select the stock they are interested in.
- Display the past market price prominently on the webpage.

3. Investment Options:

- Include a section for risk management options with a dropdown menu to select different risk management strategies.
- Provide a section for selecting investment strategies, also with a dropdown menu to choose from various strategies.
- Include a capital input field where users can enter the amount of capital they wish to invest. This field should allow direct text input without additional features like sliders or spinners.

Requirements

- **Technology Stack:** HTML, CSS, JavaScript (optional: frontend framework like React, Angular, or Vue.js)
- **API Integration:** Use a suitable API to fetch past market prices (e.g., yfinance).
- **User Interface:** Ensure intuitive navigation and clear presentation of information to enhance user experience.
- **Modularity:** Design the frontend in a modular way to allow easy integration with backend services in the future.

Deliverables

- A complete **HTML/CSS/JavaScript** codebase for the portfolio website frontend should be uploaded on **Github Classroom** as you have previously done.

Submission Guidelines

- The date for submission of this assignment is **6 June 2024 EOD**.
- Please try to adhere to the submission deadline, as your midterm evaluation is approaching; therefore you need to show some progress in terms of Web Development, which is an integral part of this summer project.
- Try to employ as much creativity as you want as there will be **brownie points** for it, which will be considered later while compiling the ratification list at the end of this project.

Success Criteria

- The webpage should load successfully across different devices and browsers.
- Past market prices for selected stocks should be fetched and displayed correctly.
- Dropdown menus for risk management and strategy selection should be functional.
- The capital input field should accept and display user input correctly.

By completing these tasks, we aim to provide you a solid foundation for a portfolio management website which needs to be integrated with backend functionalities in the future.