

Real Time Stock market data Web Application

(Project Timeline)

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16 May Batch

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AGENDA

- Requirements
- Introduction
- Website functionalities
- Tools and Technology
- Gantt chart
- Conclusion
- References
- End

Requirements -

Outline project timeline for building Real Time Stock market Web Application.

Allotted Time - 2 months.

Representation of Project timeline using Gantt chart.

Introduction -

Real time stock market web application is a web based application which provides users with real time stock market data.

On this website users can find the following information:

- Opening and closing price of stocks of a company.
- Background of company.
- Total volume of stock traded.
- Dividend amount of stock.
- Relevant news about Stocks.

Website Functionalities -

- User authentication system.
- Users must be logged in before accessing the website.
- Real time stock market data with graphical representation.
- Filter stock information based on data and time.
- Filter companies based on price to debt ratio (Company debt level in relation with stock price).

Tools and Technology -

- **Frontend** - CSS, SCSS and React.js
- **Backend** - Node.js, Express.js.
- **Database** - MongoDB.
- **Authentication** - JSON Web Token and Passport.js
- **Data Visualization** - D3.js or Chart.js
- **API** - Alpha Vantage API and News API.
- **Hosting** - AWS or Heroku.
- **Web Sockets for Real time updates.**

Gantt Chart -

Tasks	Duration (weeks)	% of Task completed	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Task 1 ▾	1	0 %								
Task 2 ▾	1	0 %								
Task 3 ▾	1	0 %								
Task 4 ▾	1	0 %								
Task 5 ▾	1	0 %								
Task 6 ▾	1	0 %								
Task 7 ▾	1	0 %								
Task 8 ▾	1	0 %								

[Gantt chart link](#)

Conclusion -

In this document, I have outlined the timelines for real time stock data Web Application.

This document provides a complete structural plan for development of real time stock data Web Application.

Total time for this project is 2 months.

In the first month we have mainly focused on the frontend part and understanding the API.

For the second month, we have focused on data visualization, backend and deployment of our website.

References -

<https://www.alphavantage.co/documentation/> (Alpha vantage API)

<https://newsapi.org/docs> (News API)

<https://expressjs.com/> (express js)

<https://aws.amazon.com/> (AWS Hosting Platform)

<https://react.dev/learn> (React.js)

<https://www.npmjs.com/package/chart.js> (Chart.js)

Q&A