

### Abstract

#### • Project Statement:

This project aims to create a user-friendly web application providing comprehensive tools to help users manage their investment portfolios. It offers real-time market data, portfolio tracking, market analysis, and educational resources, making the investment process streamlined for both novice and experienced investors.

#### • Outcomes:

- Enable users to create and manage investment portfolios.
- Provide real-time stock market data for tracking performance.
- Facilitate informed investment decisions with market analysis tools.
- Enhance engagement with educational resources and news.
- Deliver a seamless, intuitive user interface for market and portfolio management.

### System Analysis

### Why It's Needed:

- Accessibility: Limited access to easy-to-use, reliable market tools for beginner investors.
- **Data Complexity**: Investors often struggle to track and analyze vast amounts of market data efficiently.
- Educational Gap: Many platforms focus on experienced investors, leaving beginners without guidance or resources.

#### **Problems Faced:**

- Real-time Data Integration: Managing data delays and ensuring live updates.
- Efficient Data Storage: Handling high volumes of market data efficiently in MongoDB.
- User Retention: Attracting and retaining users through engaging features and reliable services.

### **Drawbacks of Current Systems**

- Complexity for Beginners: Advanced market platforms often overwhelm new investors with jargon and complex interfaces.
- **High Costs**: Many platforms charge fees, making it difficult for budget-conscious users to participate.
- Lack of Educational Tools: Few platforms focus on educating users on basic to advanced investment strategies.
- **Limited Customization**: Users are often unable to personalize the platform based on their unique investment needs.

### Proposed System

#### **Features**:

- User-friendly design catering to both new and experienced investors.
- Secure authentication with login and registration.
- Real-time data integration and portfolio tracking.
- Budget management tools.
- Educational resources to keep users engaged.

### Advantages:

- Accessible: Focused on user ease of use, especially for beginners.
- Cost-effective: Affordable access to features typically behind paywalls.
- **Personalized**: Dashboard and notification systems for a tailored experience.

### **System Requirements**

### • Software Requirements:

- Frontend: React (for UI), CSS, HTML, JavaScript.
- **Backend**: Spring Boot, Java
- o **Database:** MySQL

### • Hardware Requirements:

 Development machine with at least 8 GB RAM, Core i5 or equivalent processor, and 20 GB of free storage.

### Modules Description

### 1. User Authentication and Registration:

• Features: User sign-up, login

### 2. Portfolio Management Interface:

 Users can create and manage their portfolios with stock holdings, profit/loss calculations, and performance analysis.

#### 3. Stock Market Data and Visualization:

• Real-time data retrieval and visualization of stock performance with interactive charts.

### 4. Budget Management:

• Track budgets and expenses for investments, including portfolio allocation.

### Modules Description

#### **5.** Notification System:

• (Future Scope): Allows users to set alerts based on market movements, price changes, and other customizable metrics.

### **6.** Learning Resources:

• Provides educational content, market news, and insights for users at all experience levels.

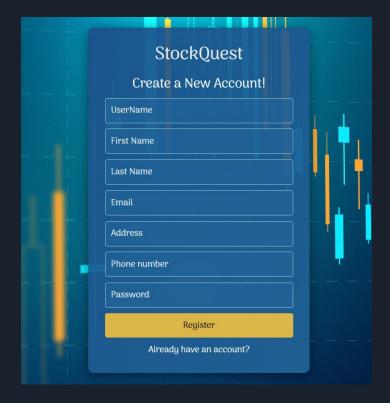
#### 7. Dashboard:

• Central hub displaying real-time data and market page for displaying trends in a concise format.

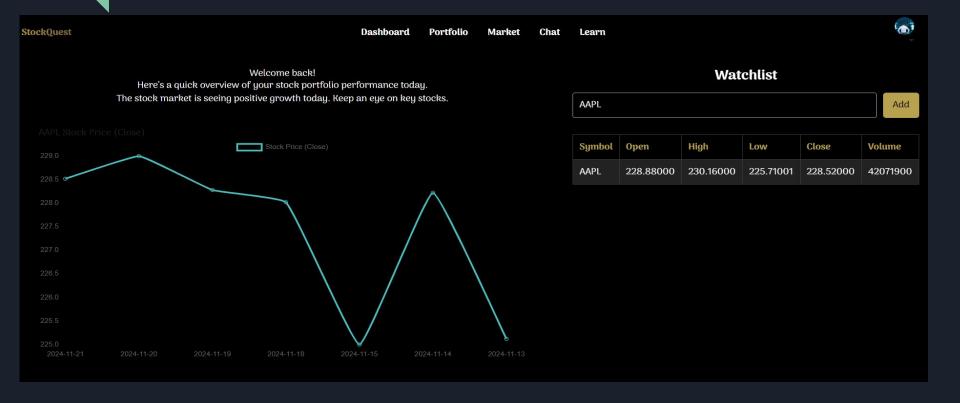
# Login Page



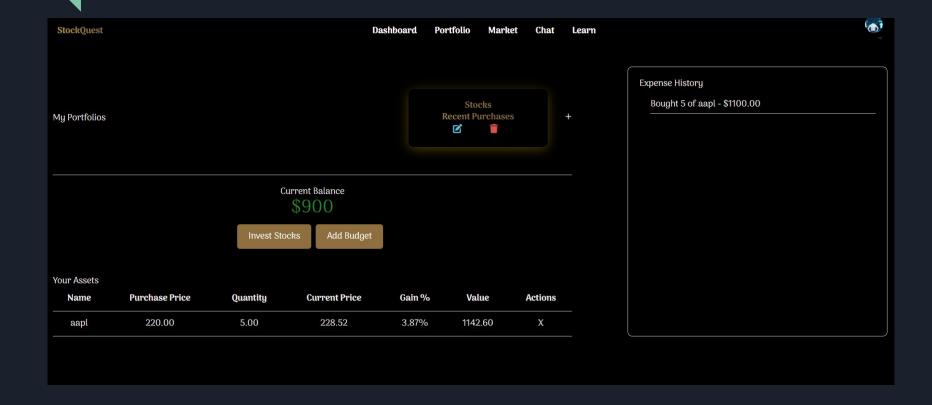
# Signup Page



# Dashboard Page



# Portfolio Page



# Market Page

#### Top Stocks

Stock Symbol	Current Price	High Price of the Day	Low Price of the Day	Open Price of the Day	Previous Close Price
AAPL	\$228.52	\$230.155	\$225.7103	\$228.88	\$229
MSFT	\$412.87	\$419.78	\$410.2887	\$419.5	\$415.49
GOOGL	\$167.63	\$174.13	\$163.7	\$173.9	\$175.98
AMZN	\$198.38	\$203.49	\$195.75	\$203.49	\$202.88
TSLA	\$339.64	\$347.9899	\$335.28	\$343.81	\$342.03
BRK.B	\$472.06	\$474.66	\$467	\$469.445	\$468.83
NVDA	\$146.67	\$152.89	\$140.7	\$149.35	\$145.89
JPM	\$244.76	\$245.49	\$242.105	\$243.23	\$240.78
JNJ	\$155.5	\$156.06	\$152.81	\$153.62	\$153.11
UNH	\$597.49	\$604	\$596.73	\$600	\$600.5

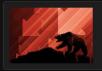
#### Top Trending News



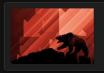
Semler Scientific Stock Is Surging Thursday: What's Going On?



Online Business Coaching Market Driven by Demand for Immersive Technologies Across Industries

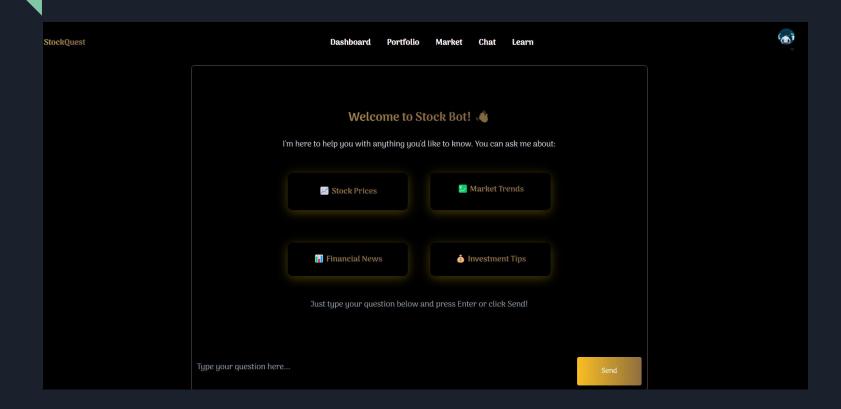


Trump admin could be harder on short-sellers, Carson Block says

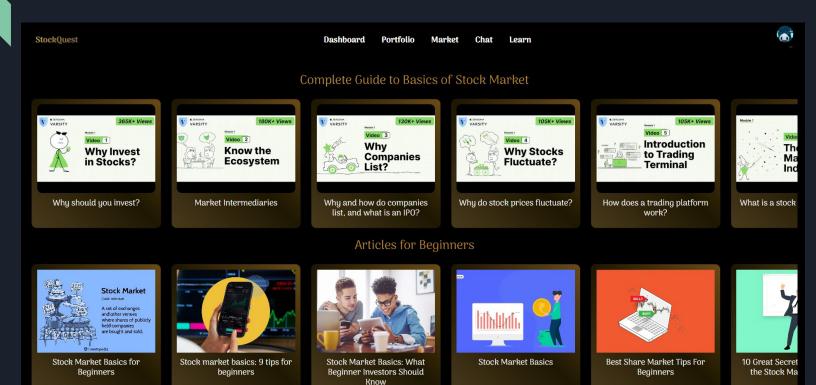


Trump admin could be harder on short-sellers, Carson Block says

## Chat Page



### Learn Page



### **Conclusion**

- Summary: This Stock Market Investment Platform enables users to manage portfolios, analyze market trends, and access educational resources in a user-friendly interface.
- **Future Enhancements**: Adding predictive analytics, advanced notification systems, and integration with more market data sources.

# Thank You!!