

Scope Statement

Project Title

FinVerse – Currency & Stock Exchange Web App with AI & Real Payment Gateway

Project Purpose

The FinVerse project is a web-based trading platform that provides users with a secure, intuitive, and educational environment to simulate stock and forex trading. Unlike typical demo apps, FinVerse integrates a real payment gateway for wallet funding using credit/debit cards and AI-driven recommendations for portfolio management. The purpose is to combine practical trading simulation, financial literacy, and AI-powered decision support into one platform, while providing administrators with control over users and content.

Project Objectives

1. Build a trading web app that simulates stock and forex exchange with real payment gateway integration.
2. Provide a secure user wallet for deposits/withdrawals using credit/debit cards.
3. Deliver AI-powered trading suggestions (Buy/Hold/Sell) with confidence scores.
4. Offer a user-friendly trading dashboard with portfolio tracking and profit/loss analysis.
5. Develop an admin panel for managing users, content, and generating reports.
6. Ensure responsive design, strong security, and reliable API integrations.

Deliverables

7. User registration/login system with secure authentication.
8. Wallet with payment gateway integration (deposit, withdrawal, history).
9. Trading module (buy/sell, portfolio, order tracking).
10. AI recommendation engine with explanation and feedback loop.
11. Admin dashboard for user management, content updates, and reports.
12. Complete documentation (SRS, WBS, Scope Plan, User Guide).
13. Deployment of web application on server with SSL.

Project Boundaries

In-Scope:

- Web application (browser-based, responsive).
- Registration/Login (with optional 2FA).

- Wallet funding via payment gateway (credit/debit cards).
- Trading (buy/sell stocks & forex).
- Portfolio tracking and valuation.
- AI-driven recommendations with feedback.
- Admin dashboard with content & user management.
- Integrations: Stock Market APIs, Payment Gateway APIs, Email notifications.
- Security compliance (HTTPS, PCI-DSS for payments).

Out-of-Scope:

- Mobile application (Android/iOS).
- Full real stock exchange settlement (trading remains simulated).
- Live customer support system.
- Advanced analytics (heatmaps, predictive trading, AI chatbots).
- Integration with external banking APIs beyond wallet payment.

Assumptions

- Users will have internet access and basic trading knowledge.
- Payment gateway sandbox mode will be used for academic demo purposes.
- Stock market API will provide sufficient demo data within free tier limits.
- AI recommendations are educational aids, not financial advice.

Constraints

- Fixed development timeline: 24 July – 15 October 2025 (12 weeks).
- Limited academic project resources (small student team).
- Budget is restricted to free/academic versions of APIs and tools.
- Compliance with supervisor requirements for academic grading.

Acceptance Criteria

- Users can securely register/login and access trading dashboard.
- Wallet supports credit/debit card funding through payment gateway.
- Trading module supports placing, executing, and tracking buy/sell orders.
- Portfolio dashboard displays profit/loss and valuation.
- AI recommendations appear with confidence score and explanation.
- Admin can manage users, block/unblock accounts, and update content.
- Application runs successfully on server with secure HTTPS.

Stakeholders

- Project Sponsor / Supervisor: Ms. Maryam Feroze – Guides and evaluates project.

- Project Manager: Anosha Hafeez – Defines scope, manages progress, approves changes.
- Frontend Developers: Mohammad Farooq & Anosha Hafeez – Implement UI/UX.
- Backend Developers: Sarim ul Haq & Muhammad Umer – Implement wallet, trading engine, APIs.
- QA Testers: Khubaib Ahmed & Muhammad Umer – Conduct system testing and UAT.
- Admin Content Manager: Khubaib Ahmed – Manage content, reports, and user oversight.
- End Users: Students, beginner traders – Primary users for trading simulation.