Ethiopia Capital Market Data Platform

Sprint Plan Document

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📌 Objective

To define a sprint-based development plan for building the Ethiopia Capital Market Data Platform prototype. This plan splits the 6-month timeline into structured sprints, mapping features to periods, assigning roles, and identifying tools to support vibe-coded, AI-assisted delivery.

📅 Sprint Schedule

Sprint	Duration	Focus
Sprint 1	Weeks 5–12	Core features (APIs, dashboard, search, charts)
Sprint 2	Weeks 13–20	Tabs, Financials, Macro Indicators, Multilingual
Sprint 3	Weeks 21–26	Testing, performance optimization, mobile checks

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📊 Features by Sprint

Sprint 1 (Weeks 5–12)

- Company Profiles API
- Stock Prices API
- Search Functionality (autocomplete)
- Dashboard Frontend Page
- Stock Price Chart (10-day line chart)
- Market Summary Card
- Search Results Page

Sprint 2 (Weeks 13–20)

- Financials API
- Macro Indicators API
- Company Details Page:
  - Overview Tab
  - Financial Data Tab
  - Price Data Tab
- Macro Indicators Page

- Tab Navigation Implementation (Bootstrap)
- Bilingual Labels JSON
- Compare Button (disabled placeholder)

Sprint 3 (Weeks 21–26)

- Full integration testing (API + UI)
- Error Handling Validation
- Mobile Responsiveness Testing
- Demo Mode (sample data popup)
- Page Load Speed Optimizations
- Deployment to AWS Free Tier / Heroku
- Final Stakeholder Review Prep

👥 Task Assignments

Role	Responsibilities
You (Lead)	Frontend UI/UX design, vibe coding, Chart.js integration, search frontend, multilingual JSON
Developer	Backend APIs, database queries, error handling, deployment, authentication setup (optional)

🛠️ Development Tools & AI Support

Tool	Purpose	Free Tier
VS Code	Code editor for frontend and backend	✅
Git + GitHub	Version control and collaboration	✅
GitHub Copilot	Real-time AI coding suggestions for both backend and frontend	✅
Grok (xAI)	Backend API logic explanations and code completions	✅
Tabnine	Autocomplete for data ingestion, JS functions	✅
Notion	Sprint planning and task list management	✅
Markdown PDF (VS Code extension)	Export documentation to PDF	✅

📌 Weekly Milestone Targets (Optional)

Week	Deliverable

Week	Deliverable
5	Environment setup, repo initialized
6–9	Core backend APIs, Company + Stock Data endpoints
10–13	Dashboard layout, Stock Charts, Search Page
14–17	Financial and Macro APIs, Macro Page, Tabs
18–20	Frontend integration, multilingual labels
21–24	Full testing, error handling
25–26	Optimization, deployment, stakeholder demo

📌 Summary

Task	Status
Sprint phases defined	✅
Features mapped to sprints	✅
Roles assigned	✅
Tools selected	✅
Markdown doc created (this file)	✅

Next Step:

Start Sprint 1 development: backend APIs + dashboard wireframe to working prototype state.