Ethiopia Capital Market Data Platform

Sprint 1 Task Breakdown

Date: May 25, 2025
Sprint: Sprint 1 (Weeks 5–12)
Version: 1.0
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📌 Objective

Detailed task-by-task breakdown of Sprint 1 deliverables with role assignments, AI tool support, and expected outputs for each task.

📅 Sprint 1 Task Table

#	Task Description	Role	AI Tools / Helpers	Deliverable
1	Set up `/companies` GET API	Developer	Grok, Copilot, Tabnine	API endpoint returning all companies
2	Set up `/companies/<int:id>` GET API	Developer	Grok, Copilot	API endpoint returning single company
3	Set up `/stocks/<company_id>` GET API with date filters	Developer	Grok, Copilot, Tabnine	API endpoint returning stock data w/ filters
4	Set up `/market` GET API for market summary	Developer	Copilot, Grok	API endpoint returning market overview data
5	Test all backend APIs via Postman	Developer	—	Postman test logs/screenshots
6	Push working backend APIs to GitHub	Developer	—	GitHub commits
7	Design clean Dashboard Page layout (HTML/Bootstrap)	You	Copilot, Tabnine	HTML layout file `/templates/dashboard.html`
8	Build Market Summary Card on Dashboard	You	Copilot	Card component in HTML/Bootstrap

#	Task Description	Role	AI Tools / Helpers	Deliverable
9	Build Top 3 Movers cards	You	Copilot	Bootstrap card row with price and % change
10	Integrate Search Bar with autocomplete	You	Copilot	Search bar in header w/ JS autocomplete
11	Create Stock Price Line Chart (Chart.js)	You	Copilot, Chart.js docs	Working chart in Dashboard page
12	Build Search Results Page layout	You	Copilot, Tabnine	`/templates/search_results.html`
13	Connect frontend AJAX calls to backend APIs	You	Copilot, Tabnine	JS scripts + working data fetch calls
14	Test frontend display and data rendering	You	—	Screenshots and local test notes
15	Push frontend code to GitHub	You	—	GitHub commits
16	Test API + UI integration end-to-end	Both	Chrome DevTools	Working prototype pages with live data
17	Commit and push final Sprint 1 code	Both	—	Finalized repo state on GitHub
18	Update `sprint_plan.md` and `development_todo.md` status	You	Notion, Markdown PDF	Updated docs and exported PDFs

📌 AI Tools Quick Reference

AI Tool	Use Case
GitHub Copilot	Code generation for Python, HTML, JS
Grok (xAI)	Explaining and writing backend API logic
Tabnine	JS functions, API requests, AJAX helpers
Chart.js Docs	Chart configuration reference
Chrome DevTools	Frontend debugging, data checks

✅ Next Step

Start with **Task #1: Set up `/companies` GET API**