Sprint 1 Summary (Oct 28 – Nov 4)

Objective

To design and implement the **frontend interface**, establish the **authentication module**, and set up the **initial backend architecture** along with a **3-stage CI/CD pipeline** for Build, Test, and Coverage.

Date-wise Progress

October 28

- Conducted **Sprint Planning** and finalized user story assignments in Jira.
- Created the **Git repository** and set up standard branches: `main`, `develop`, and `feature/*`.
- Defined **branch naming conventions** and initialized the project with a README containing setup instructions.
- Sprint 1 backlog finalized and approved by all members.

October 29

- **Frontend:** Implemented core UI components including the **navigation bar** and **dashboard skeleton** using React.
- Integrated **React Router** for multi-page navigation.
- **Authentication:** Developed initial **Login** and **Signup** screens.
- Feature branches created: `feature/frontend-base` and `feature/auth-ui`.

October 30

- **Frontend:** Completed the **dashboard layout** and added **theme toggle** functionality.
- **Authentication:** Integrated **Two-Factor Authentication (2FA)** and **Password Reset** interfaces with mock validation.
- Frontend and authentication workflows tested for navigation and UI consistency.

October 31

- **Backend:** Initialized the **server structure** using Node/Express and configured the **database connection**.
- Developed the **GET /portfolio** API endpoint with mock data.

- Verified basic API responses and ensured the backend skeleton was stable for future expansion.

November 1

- Added the **real-time price monitoring service** integrated with the **CoinGecko API**.
- Connected backend APIs with mock database values for data visualization.
- **QA team** prepared initial test scripts for authentication and portfolio modules (`tests/test_auth_portfolio.js`).

November 2

- Configured the **3-stage CI/CD pipeline** using GitHub Actions: **Build → Test → Coverage (60%)**.
- Automated CI/CD runs on pull requests for build and test verification.
- Peer reviews conducted on pull requests for code quality and standardization.

November 3

- Merged **reviewed feature branches** into `develop`.
- Conducted **integration testing** between frontend and authentication modules.
- Ensured successful build and test completion through CI/CD monitoring.

November 4

- Conducted **Sprint 1 Retrospective** to review achievements and identify blockers.
- Documented issues related to **API rate limits** during price fetch operations.
- Updated **Jira status**, closing completed stories and marking the sprint as delivered.

Deliverables

- Fully functional **Frontend and Authentication UI**.
- Working **Portfolio API** integrated with mock data.

- **3-Stage CI/CD pipeline** operational (Build, Test, Coverage).
- **Minimum 60% code coverage** achieved.
- All **feature branches merged** after peer review.
- **Sprint 1 Retrospective** documented and Jira board updated.

Challenges & Learnings

- Encountered **API rate limits** during real-time price fetch testing.
- Improved understanding of **branching workflow**, **CI/CD automation**, and **peer-review practices**.
- Strengthened coordination across **development**, **testing**, and **DevOps** workflows.