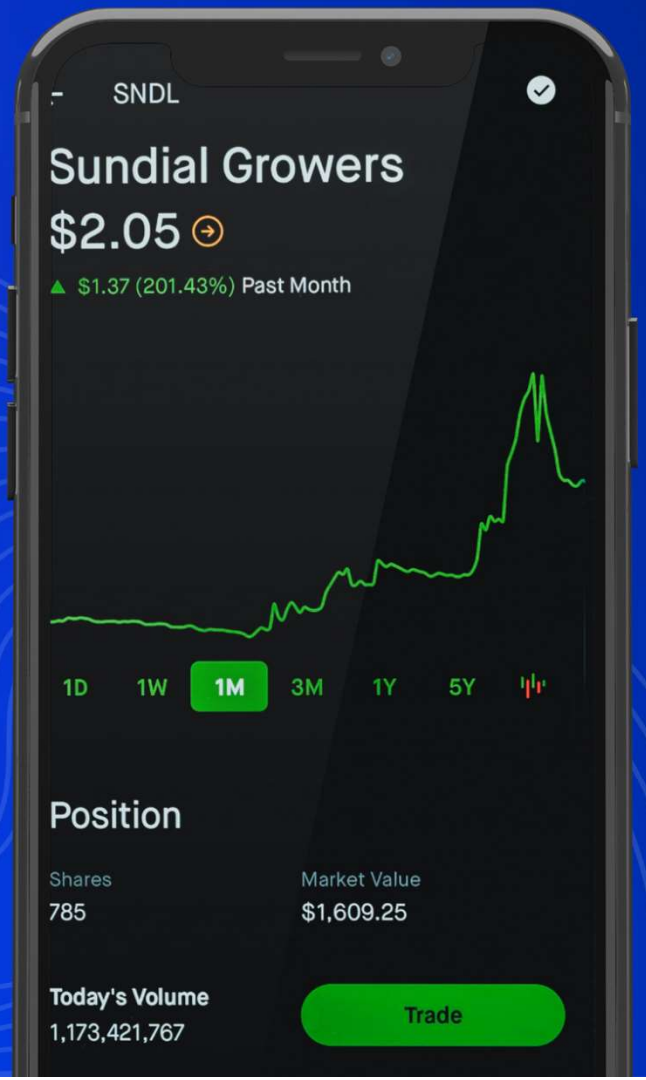
Sprint 2

presentation

Let's go →



The Objective:

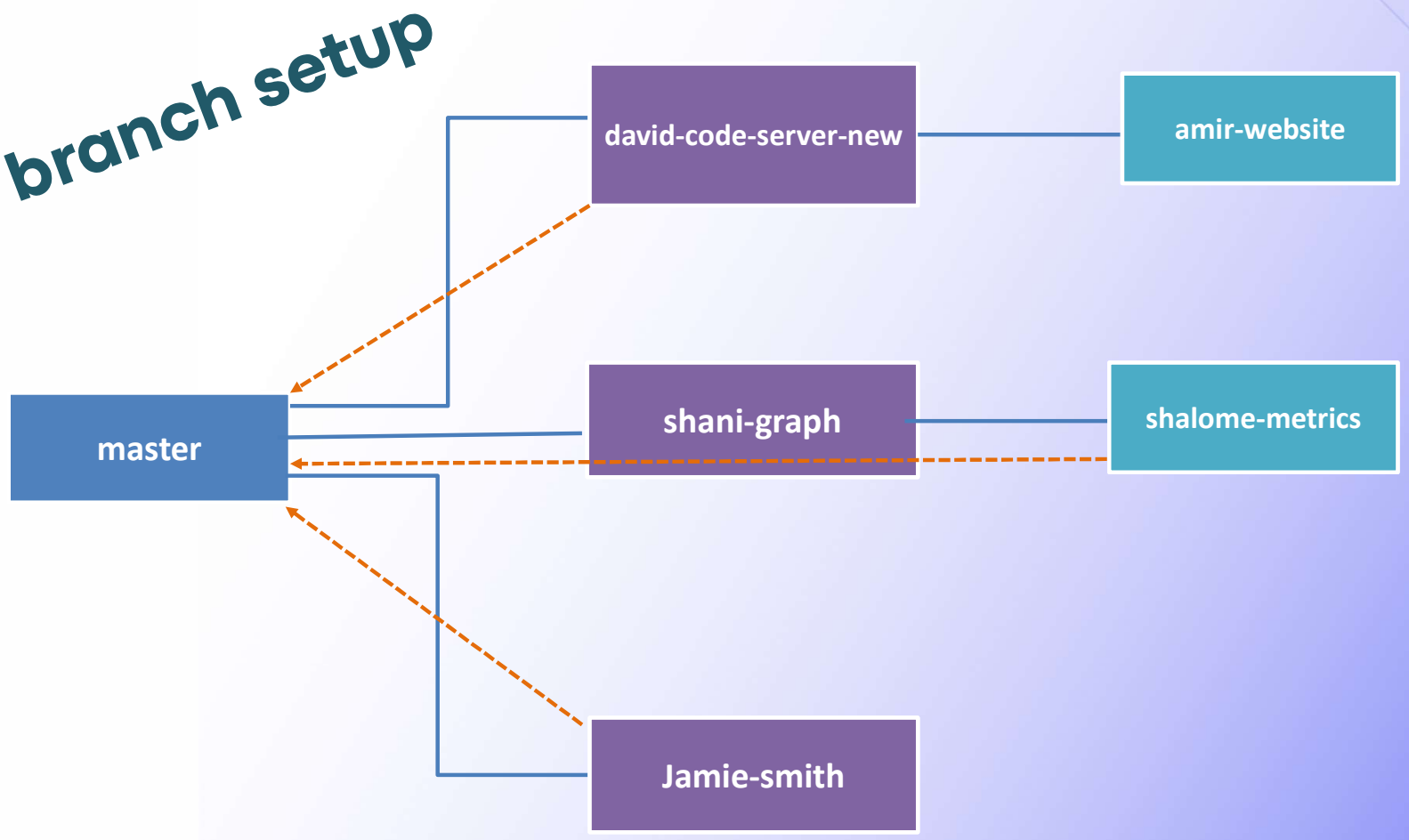
The goal is to provide an Interactive Web Interface for developing, backtesting, and analyzing FOREX algorithmic trading strategies with integrated data visualization, anomaly detection, and version control capabilities.

Team Members

Role of each member

- David Genders (25935410) - > Backend development
- Amir Patel (26034670) - > Backend development
- Shani Van Heerden (26084031) - > Frontend development
- Shalome Neethling (24560502) - > Frontend development
- Rohan Naidoo (26130432) - > Backend development
- Jamie Smith (24810517) - > Frontend development

Git branch setup



Key accomplishments and deliverables for Sprint 2:

On the frontend:

- **Archive page** for better data organization and introduced the **graph** displays for visualizing output data.
- Added **local version control** for improved user experience and workflow management.

Frontend

On the backend:

- **Git integration** was implemented for **version control**, and a **robust backtesting system** was built to evaluate trading strategies.
- **Anomaly detection** feature was developed, leveraging both YFinance and the Spatialedge Forex data to spot anomalies.

Backend

Shortcut

The team used **Shortcut** to plan and assign tasks, manage user stories, and organize the product backlog. It also helped streamline iterations and management for Sprint 2.

Shortcut

Agile Process for Sprint 2 :

1

Sprint Planning

- Defined sprint scope and prioritized tasks/user stories
- Discussed UI design and broke tasks into clear, manageable units.

2

Incremental Development and Iterations

- Incremental development allowed for gradual feature enhancements and refinement for this sprint.
- Iterations provided opportunities for feedback and adjustments, improving functionality and user experience.

3

Backlog Refinement

- The Product Backlog was regularly updated with new features and improvements.
- Bug reports and technical debt were tracked in the backlog for resolution in upcoming sprints.

4 Continuous Integration & Testing

- Code was frequently integrated into the main branch post-testing, ensuring stability with each update.
- Tools like GitLab CI/CD pipelines automated testing and deployment, facilitating rapid and secure software releases.

5 Delivery of the Minimum Viable Product (MVP)

The Minimal Viable Product (MVP) features essential functionalities:

- including Git integration for version control and a front end that displayed graphs, allowing users to visualize market trends effectively.
- Code editor for the user to specify their own strategies.
- A Metrics page for visual representation of trading data and performance.
- Included sample for Anomaly detection feature: Backend capabilities for anomaly detection by comparing YFinance data with the company's forex data, enabling users to identify unusual market behaviors and make informed decisions.

Now, let’s transition to the live demonstration.