

Sprint 4 Plan

Product Name: Code Performance Analyzer

Sprint 4 Goal

Sprint 4 will focus on migrating the model to a production server, setting up a Kind cluster with Docker support, and creating CI/CD scripts to simplify deployment. On the frontend, we will add performance charts to the sidebar, build a test-generation interface, and implement result exporting.

User Stories - Backend

User Story 4.1: As a user, I want to be able to use the model without having to download it and use my computer's resources.

- **4.1.1:** Upgrade to production server for stability – *8 hours*
- **4.1.2:** Setup Kind cluster and Docker image handling – *6 hours*
- **4.1.3:** Create CI/CD scripts for easy deployment handling – *4 hours*

User Stories - Frontend

User Story 4.2: As a user, I want the interface to highlight inefficient patterns and show a visual performance chart so I can understand and improve my code's behavior over time.

- **4.2.1:** Integrate complexity performance charts into sidebar – *8 hours*
- **4.2.2:** Create test generation interface – *4 hours*
- **4.2.3:** Add result export - *6 hours*

Team Roles

Team Member	Role
Philip Pesic	Backend Developer
Adwaith Madadi	Backend Developer
Rohit Mandal	Backend Developer
Michael Pimentel	Frontend Developer
Juan Alvarez Sanchez	Frontend Developer

Task Assignment:

Philip Pesic: Backend Tasks 4.1.1, 4.1.2, 4.1.3

Adwaith Madadi: Backend Tasks 4.1.2

Rohit Mandal: Frontend Tasks 4.2.3

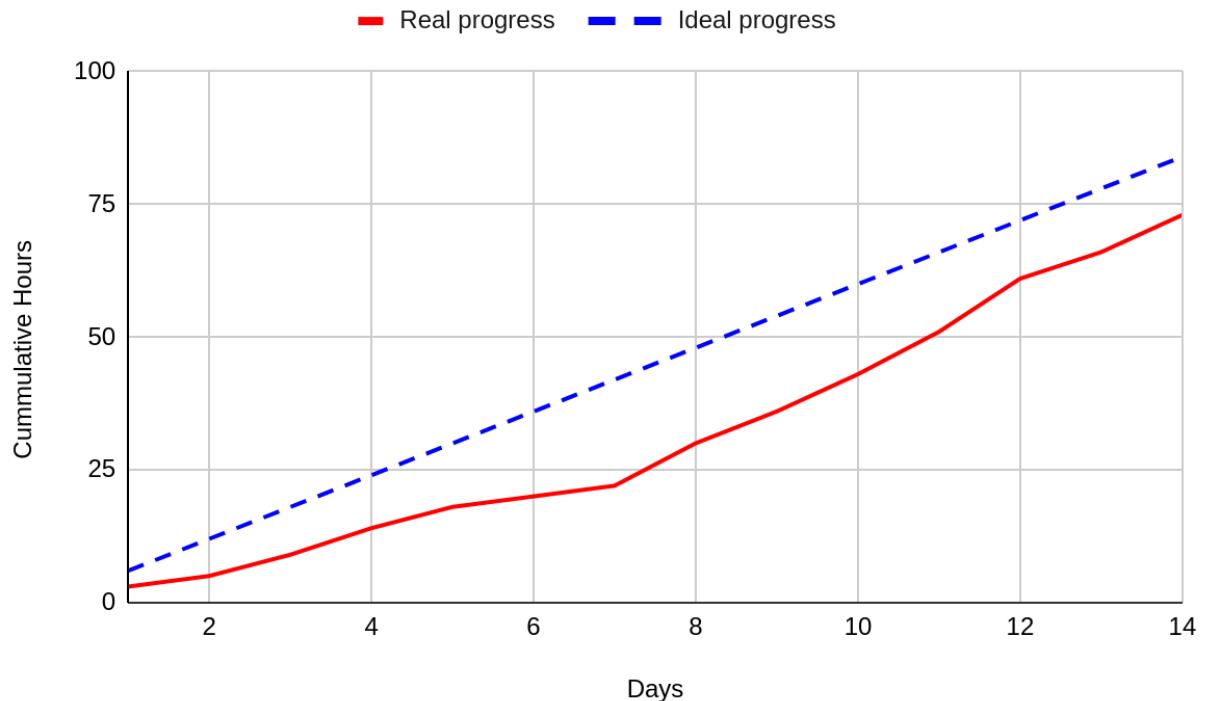
Michael Pimentel: Frontend Tasks 4.2.1

Juan Alvarez Sanchez: Frontend Tasks 4.2.2, 4.2.3

Scrum Board:

https://docs.google.com/document/d/15PlzT7TNhLe6Ni6R2BIPt3uAZVzQrlsptkJnA_Or7GM/edit?tab=t.0

Sprint 4 Burnup Chart:



Scrum Meetings:

Day	Location
Saturday	Zoom
Tuesday	Zoom/In Person
Thursday	Zoom and TA Meeting

Sprint 4 Recap:

In Sprint 4, the backend team upgraded the system to a production server, configured the Kind cluster with Docker image handling, and added CI/CD scripts for smoother deployments. The

frontend team integrated performance charts, created the test-generation interface, and implemented export functionality to give users clearer insights and more control over results.