

## 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

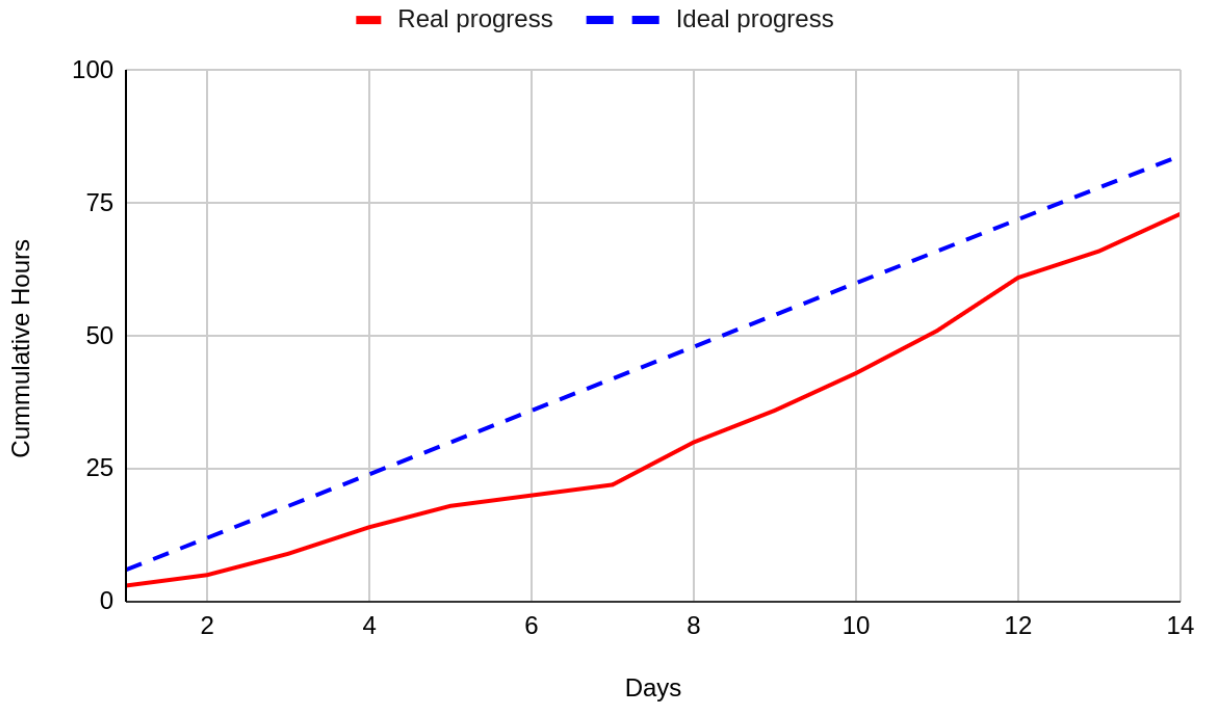
**Michael Pimentel:** Frontend Tasks 4.2.1

**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](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.