PMacT Project Team

Roles & Responsibilities

Abi Olukeye / Front End Dev

Rest Johnson / Back End Dev

Eric Betties / Software Dev / Database Developer

Kenneth Fields / Software Dev / Tester

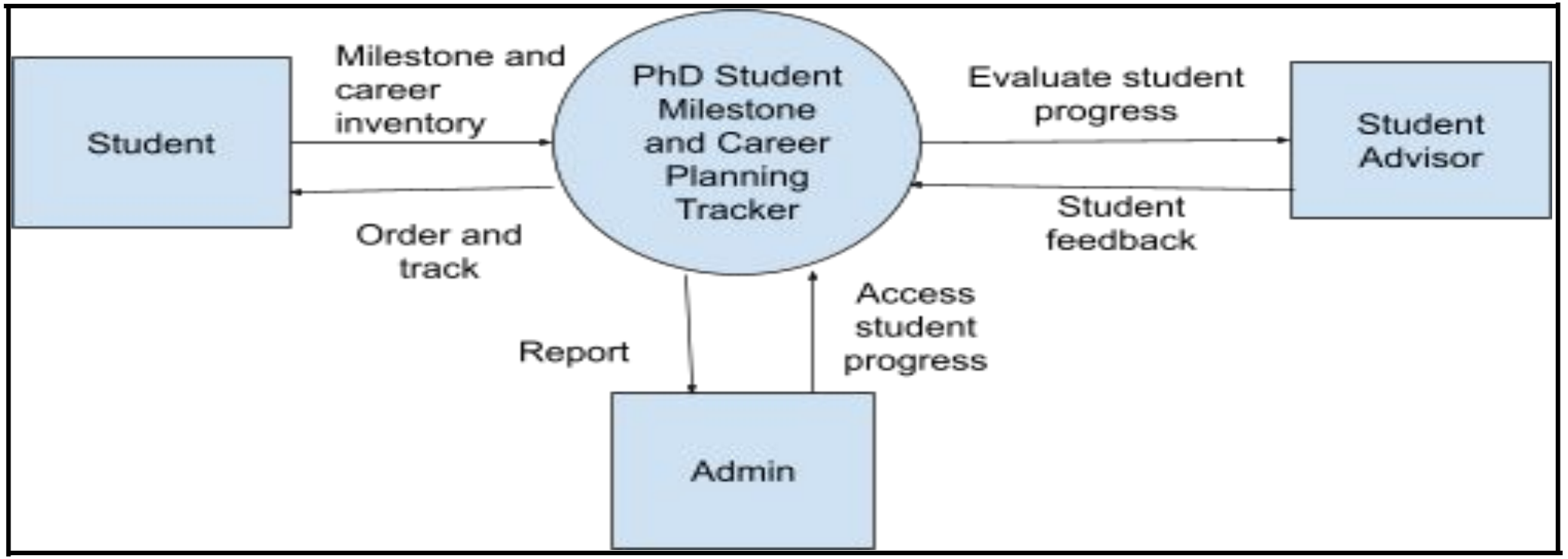
Project Overview

- **System Overview:**
  - The PhD Milestones Tracker is a web-based application designed to help PhD students track academic progress, collaborate with advisors, and enable administrative oversight through structured milestone management.
- **Scope:**
  - The system supports three user roles—Student, Advisor, and Admin—with tailored dashboards and permissions. Students can create and manage milestones; advisors can review and comment on progress; and admins can generate reports, initiate review workflows, and leave notes on student profiles.
- **Goals:**
  - Streamline the PhD progress tracking process.
  - Facilitate timely communication between students and advisors.
  - Enable data-driven decision making and administrative reporting.
  - Provide a user-friendly, secure, and scalable academic tracking platform.

Main User Stories

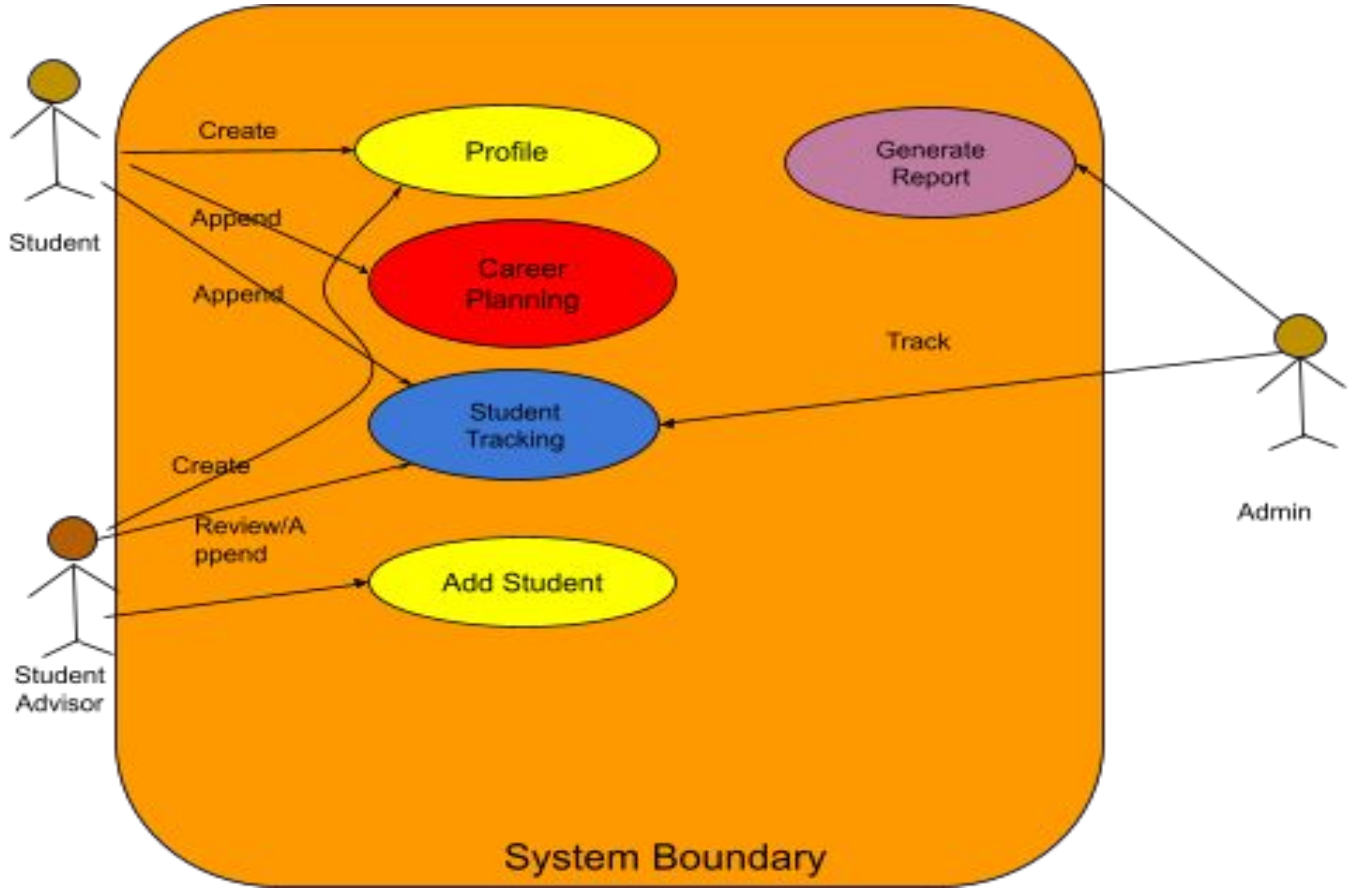
- As a PhD student, I want to create and manage my academic milestones so that I can track my progress.
- As a PhD student, I want to view my progress visually so that I stay motivated and organized.
- As an advisor, I want to review and approve my student's milestones so I can ensure they are on track.
- As an advisor, I want to request changes on submitted milestones so that students can improve their work.
- As an admin, I want to generate milestone status reports so that I can monitor program-wide performance.
- As an admin, I want to request milestone reviews from advisors to gather feedback before making decisions.
- As an admin, I want to submit recommendations or statuses to students after the review process is complete.
- As an admin, I want to add internal notes to a student's profile for record-keeping and tracking concerns.

Context Diagram

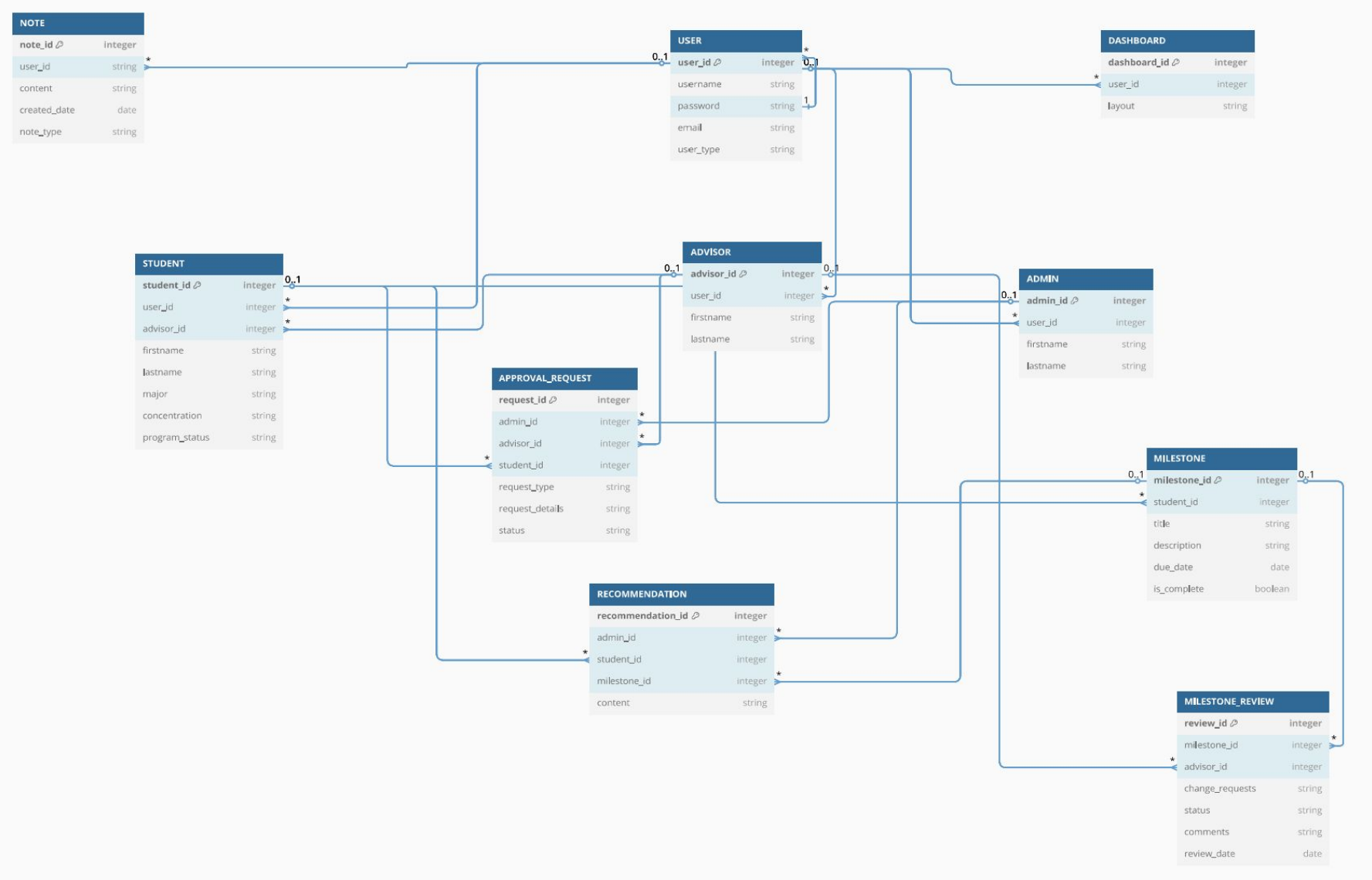


Use-Case Diagram

The actors in this system are Students, Student Advisors, and Admins. The core Use Cases include creating and editing profiles, appending milestones, setting career plans, tracking progress dashboard, and student advisor feedback and student management.

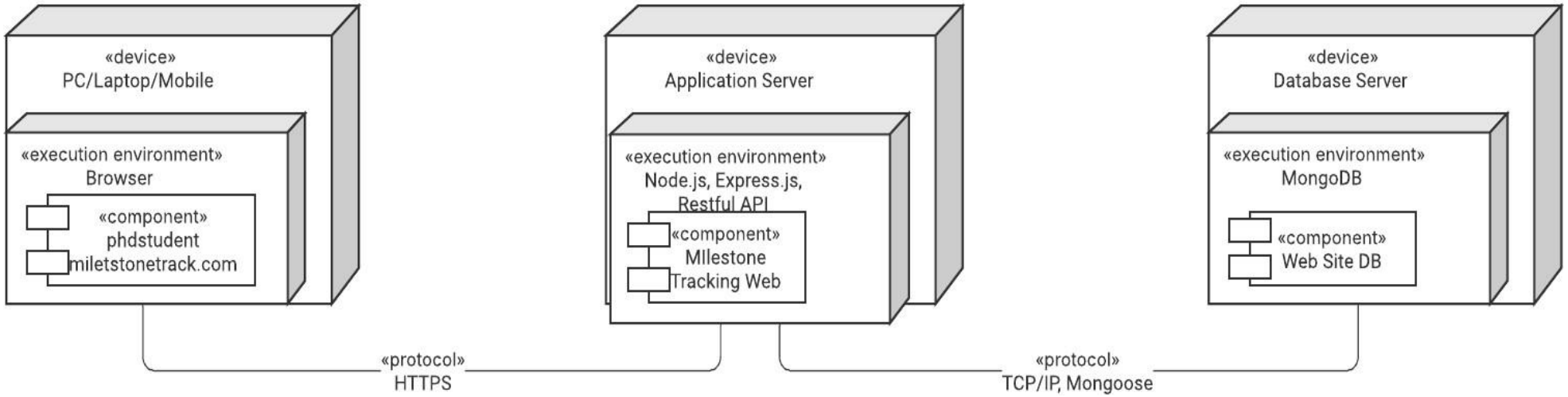


Database Diagram (ER)



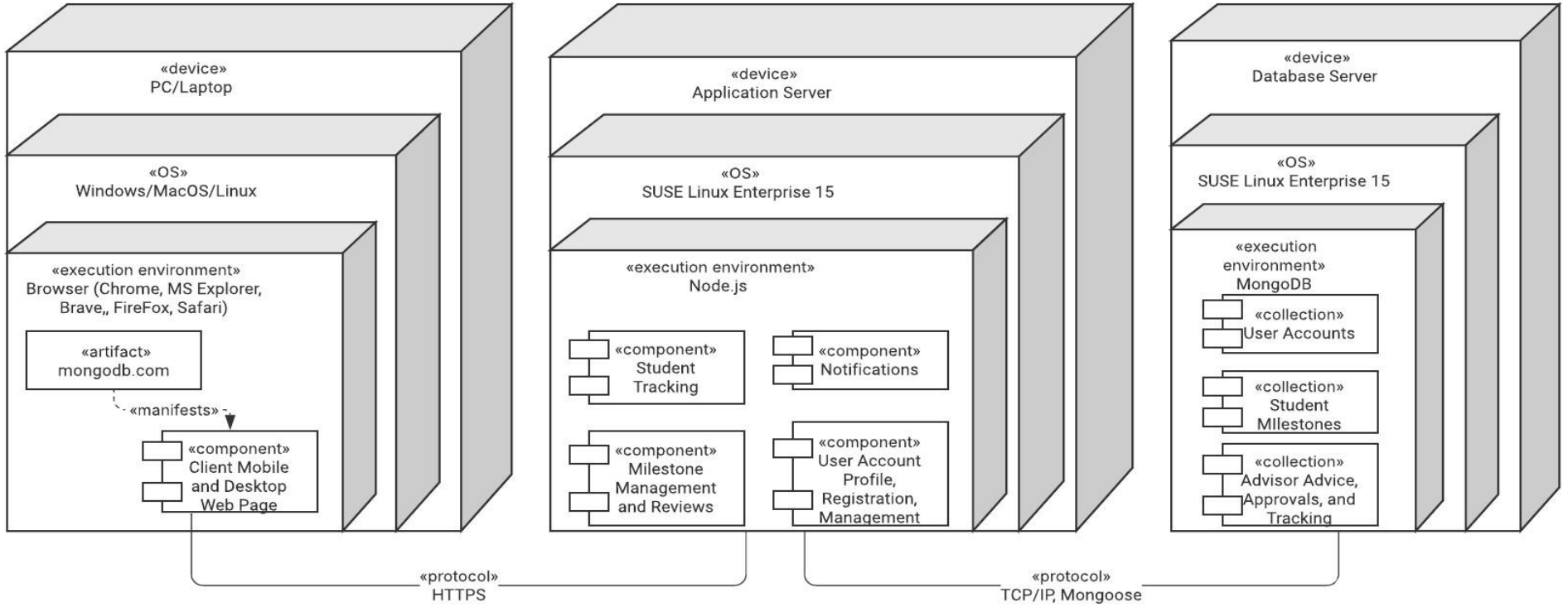
UML Diagram

High Level UML Deployment Diagram



UML Diagram

UML Low Level Deployment Diagram



State of Development

- **Sprint 1**
  - Base Application: MERN
  - GitHub for collaboration
  - Functionalities
  - Database setup

- **Sprint 2**
  - Design Prototype
  - User Authentication (possible Google OAuth)

Lessons Learned

- Full Stack Development requires adequate time management
- Collaborative development between front and backend is actually key to a successful application design and deployment
- Prototyping doesn't stop at the design level

GitHub

https://github.com/sghqdev/phdtracker