

Academic Performance Tracker

146412: Njugi Elijah Muiru

167141: Karogo Joe Ndungu

Project Overview

A university academic performance tracking system that allows students to log, monitor, and evaluate their progress throughout their academic journey. The platform provides insights on units passed and failed, GPA trends, average scores, degree classification projections, and offers actionable recommendations like retaking failed units or progressing to the next level.

Core CRUD operations

- Create: Students input units, grades, credit hours, and semester details.
- Read: Users view academic summaries, performance status (pass/fail), GPA, and eligibility status.
- Update: Modify academic records (e.g., update grade after a retake or special exam).
- Delete: Remove outdated or incorrect unit entries.

Target Users.

This system is built for university students and lecturers. Students can use it to keep track of how they're doing and make smart decisions about retakes or moving forward.

Lecturers can get a clearer view of student performance and support those who may need academic help.

Key Features

- Automatic calculation of GPA with visual semester-wise charts

- Unit performance analysis showing units passed, failed, and average score per unit
- Smart alerts on retake requirements or inability to proceed due to failed core units
- Degree classification estimator (First Class, Second Upper, etc.) based on institutional grading systems
- Student guidance section suggesting next steps (e.g., retake, proceed, academic warning)
- User authentication and secure account management

Technical Approach

This system will use HTML, CSS, and JavaScript with React for the frontend, and PHP for the backend logic. PostgreSQL will be used to store and manage academic records. User login will be secured using session-based or token-based authentication. Charts and graphs will be created using Chart.js to clearly visualize performance data.