

Group 30 Final Project Proposal

University Management System

Team

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Description

This application aims to digitize Universities by providing essential modules that seamlessly integrates Administrative Tasks to maintain as well as scale the application, Course Registration, Grading coursework with appropriate GPA and to maintain Attendance record of students.

Core Features

1. User Profile:
Three types: Administrator, Professor, Student
2. Course Registration
Administrator creates Courses linked to Professor and Students can enroll
3. Course Summary
A page displaying info about specific courses offered. Provides course outline, professor info, and credit value.
4. Course Grade
Professor can enter final grades of students for their course. A student's GPA is calculated based on grades entered.
5. Attendance:
Logs student attendance with an export feature
6. Dashboard:
Landing Page Interface to showcase summarized data based on the logged in user
 - a. Administrator: Total user count (active and inactive), total course count
 - b. Professor: Course schedule, number of students
 - c. Student: User Profile, registered courses with schedule, GPA, overall attendance

Extra Features

1. PDF Transcript Generator
2. Course Learning Material
Repository where students can access files for any course and view them over the application itself.
3. Course Prerequisites
Override feature for course prerequisites
4. Assignment Module
Student upload assignments and professor grades them which extends the Course Grade module allowing for course grades to be automatically calculated from assignment grades and assignment category weights.
5. Calendar Module
6. Degree Completion Status
A list of required classes for the student's major as well as other graduation requirements. Student's will be able to see completed requirements as well as a % completion score.
7. Alerts and Notification e-mails
Students will receive emails as and when their assignment grades are uploaded or a new assignment is up or when there is an announcement from professor's side.

GitHub Repo

<https://github.com/CS546-Final-A/University-Management-System>