

**Project Title:** Grading Management System

**Course and Section:** BSIT - 2A

**Leader:**

- Ceejay B. Feruelo

**Members:**

- Chris Follosa

- Ivey Guevarra

- Joshua Talato

- Rudy Vargas III

## **Front End - Design / UI / UX**

- Rudy Vargas (Supervisor)
- Ivey Guevarra
- Ceejay Feruelo

Front End Responsibilities

Responsive Design

User Interface + User Experience

Performance Optimization

## **Back End - Program / Database / APIs**

- Chris Folloso (Supervisor)
- Joshua Talato

Back End Responsibilities

Application Logic

Database Management + Data Processing

Security, Authentication, and Authorization

Project Objective: The Project aims to efficiently grading processes for students, profs, and admins.

#### Student Account:

- -Login System Portal:
  - -Username
  - -Password
  - -Password Recovery
- -Viewing of Grades:
  - -The Grades Table should have:
    - -Student's ID
    - -Student's Name
    - -Course, Year, and Section
    - -Academic Year
    - -Subject Code/ID
    - -Subject Title
    - -Semestral Grades (Different Tables for Midterms and Finals)
    - -Subject Professor

## Faculty Account:

- -Login System Portal:
  - -Username
  - -Password
  - -Password Recovery
- -Grading System Table:
  - Course Taught:
    - -Course ID and Title
    - -Student ID and Name
    - -Create / Edit / Update Grades
      - -Midterms Grades
      - -Finals Grades
      - -Semesteral Grades (Automatic Grade Conversion)
      - -Professor Remarks
- -Generate Report:
  - -Faculty ID
  - -Faculty Name
  - -Department
  - -Academic Year

#### Administrator Account:

- -Login System Portal:
  - -Username
  - -Password
  - -Password Recovery
- -Encoding Courses Metadata (Has Access to Create Edit Delete Data):
  - -Subject Code
  - -Subject Name
  - -Curriculum Year
- -Encoding Professor Metadata (Has Access to Create Edit Delete Data):
  - -Faculty ID
  - -Faculty Name
  - -Department
- -Encoding Student Metadata (Has Access to Create Edit Delete Data):
  - -Student ID
  - -Student Name
  - -Course, Year, and Section
  - -Department

Work Progress (3 Weeks)

Deadline: December 4, 2024

First Week Goal (Nov. 14 - 20):

- -Front End:
  - -Setup basic layout and navigation framework of the Application
    - -Student Portal
    - -Professor Portal
    - -Admin Portal
  - -Apply Consistent Color Palette or Theme for the Application, Typography (Fonts), and a "style" to ensure a cohesive look
  - -Implementation of Basic Components such as Textboxes, Buttons, Panels, Navigation Links
    - -Make Sure of the PROPER and CONSISTENT naming of objects
- -Back End:
  - -Design Database Schema and create tables for:
    - -Students (Should have Student Metadata like StudentID, StudentName, Course, Year & Section, etc.)
    - -Professors (Should have Professor Metadata like ProfID, ProfName, Department, etc.)
    - -Administrators (Should have Admin Metadata)
    - -Grades (Should have StudentID, CourseID, Midterm Grades, Final Grades, Semestral Grades, Remarks, etc.)
    - -Courses (Should have CourseID, CourseName, ProfID, Curriculum Year)
  - -Establish Connection and Relationships between tables:
  - -Implement CRUD for each major table

## Second Week Goal (Nov. 21 - 27):

- -Front End
  - -Complete the design and layout for each login portal:
    - -Ensure each portal has its input fields (Username, Password), and buttons for Register, Password Recovery and Login
  - -Implement the Structure for viewing components
    - -Grade Table for Students
    - -Grading System for Faculty
    - -Metadata for Admins to manage students, profs, and courses
- -Back end
  - -Finalize the Database with necessary Data Validation and Integrity Checks
  - -Develop Authentication and Authorization on Login Portals
    - -Implement Login Functionality
    - -Setup Permissions on each portal
  - -Implement Core Functionalities
    - -Implement Viewing Grades on Student Account
    - -Implement Grading System on Professor Account
      - -Compute Course Grades based on Student's Records
      - -Compute Midterm and Final Grades based on Student's Course Grades
      - -Compute Semestral Grade based on Student's Midterm and Final Grades
      - -Grade Conversions
    - -Implement Metadata management on Admins

### Third Week Goal (Nov. 28 - Dec 4)

- -Front End
  - -Finalize UI/UX:
    - -Refine all Forms for Responsiveness
    - -Add Smooth Transitions and User-Friendly Navigation
    - -Complete all "styling" adjustments and ensure consistency in the design and theme
- -Back End
  - -Finalize all Application Functionalities
    - -Ensure Student Accounts can see and download Grades as intended
    - -Ensure Professor Accounts can use Grading System as intended
    - -Ensure Admin Accounts can access All Metadata
- -Both
  - -Begin Debugging to Identify and Resolve Issues in both user interface and functionality
  - -Checking Integration between front end and back end to ensure smooth data flow between the application and database

### Fourth Week Goal (Dec. 5 - Dec 10)

- -Both
  - -Conduct VERY thorough test runs for all user roles:
    - -Ensure that Students cannot access Professor and Admin Pages
    - -Ensure that Professor cannot access Student and Admin Pages
    - -Ensure that Admin cannot access Student and Professor Pages
  - -Testing Grade Entries
  - -Login Verification
- -Documentation of the Work