



CERTIFICATE MANAGER

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1. Introduction

1.1 Problem Statement

At Axsos Academy, student grades and payment statuses are managed manually using Excel. This process is time-consuming for instructors and financial staff. Additionally, verifying if a student has paid in full and passed all exams to issue a certificate requires significant manual effort.

1.2 Solution

The Certificate Manager project is designed to streamline the administrative tasks of managing student grades, payment statuses, and certificate issuance. It provides an intuitive interface for financial and teaching staff to efficiently handle these processes.

2. Features Overview

2.1 Login System

User Authentication: Secure login for administrators, teachers, and financial staff.

Third-Party Integration: Sign-in options using Facebook and Google accounts.

2.2 User Management

Admin Panel: Manage users, including students, teachers, and accounts.

Add/Edit/Delete Users: Create and modify records for all user types.

2.3 Bootcamp Management

Add Bootcamps: Define bootcamp details, including title, description, start, and end dates.

View Bootcamps: Display a list of all active bootcamps.

2.4 Checklist Management

Add Checklists: Associate bootcamps with specific requirements and track completion.

2.5 Grade and Payment Tracking

Student Grades: Record and update grades for different stacks and exams.

Payment Status: Verify whether students have completed their financial obligations.

2.6 Certificate Issuance

Automatic Eligibility Check: Determine if a student is eligible for a certificate based on grades and payment status.

Certificate Generation: Issue certificates to eligible students.

3. User Roles and Permissions

3.1 Administrator

Access all modules, including user, bootcamp, and checklist management.

View and edit all records.

3.2 Teacher

Approve grades for individual stacks.

Monitor student progress within assigned bootcamps.

3.3 Financial Staff

Approve payment statuses.

Verify financial records for certificate eligibility.

SYSTEM DESIGN

4.1 Database Structure

Users: Store details of students, teachers, and accounts.

Bootcamps: Maintain bootcamp information.

Grades: Record grades for each stack and overall performance.

Payments: Track payment statuses for students.

Certificates: Manage issued certificates.

4.2 Key Functionalities

Dashboard: Centralized view for managing tasks and accessing data.

Dynamic Forms: Add/edit data for users, bootcamps, and checklists.

Reports: Generate summaries of student performance and payment statuses.

Conclusion

The Certificate Manager project simplifies the administrative workload at Axsos Academy by automating the tracking of student grades, payments, and certificate issuance. It enhances efficiency and reduces errors, ensuring a seamless process for both staff and students.