



Online Examination System

Problem Statement

Traditional examination systems often require significant manual effort for question paper preparation, answer evaluation, and result processing. This leads to inefficiencies, delays, and human errors in grading. The **Online Examination System** aims to automate these processes, ensuring accuracy, efficiency, and accessibility. By leveraging technology, it provides a centralized platform for managing question banks, conducting exams securely, and instantly grading student responses, thus reducing administrative burdens and enhancing the examination experience for all stakeholders.

Introduction

The **Online Examination System** is a database management system designed to facilitate the seamless administration of exams, ensuring efficient question management, student answer submissions, and automated grading. The system assigns a unique Exam ID to each test, allowing students to participate in various exams effortlessly. It reduces manual efforts, minimizes errors in evaluation, and provides a user-friendly interface for students, faculty, and administrators to manage examination-related activities.

Project Modules

1. Student Module

- **Features:** Register for exams and receive a unique Student ID. Using this ID, view available exams and participate in them. Submit answers online, check exam results, and review performance reports. Additionally, update personal details, such as contact information, whenever necessary.
- **Entities:** The **Student** module stores a student's name, RegNo, StudentID, and contact info. The **Exam** module records the ExamID, subject, date, time, and Total marks. The **Answer** module stores StudentID, ExamID, and Student responses.

2. Faculty Module

- **Features:** Create and manage question banks, schedule exams, assign exams to students, and oversee student participation. The module also facilitates manual review of subjective answers when necessary and allows faculty to generate performance reports.
- **Entities:** The **Faculty** module stores faculty details (FacultyID, Name, Contact Info), while the **QuestionBank** module records questions with QuestionID, ExamID, Subject, and Marks.

3. Admin Module

- **Features:** Manage student and faculty accounts, oversee examinations, ensure system security, generate reports, and handle system logs to track activities for auditing purposes.
- **Entities:** The **Admin** module stores admin details (AdminID, Name, Contact Info), while the **SystemLogs** module records system activities with log ID, timestamp, and activity details.

Additional Entities:

The **College** (CollegeID, Name, Address) module stores college details, the **Venue** (VenueID, VenueName, Capacity) module stores venue details for offline exams if applicable, and the **Schedule** (ScheduleID, ExamID, Date, Time) module manages examination schedules.

Software Requirements

- **Frontend:** Basic JS, HTML and CSS for simple interface design.
 - **Backend:** PHP or Python (Flask) for minimal backend logic.
 - **Database:** MySQL (primary focus for database management).
 - **Tools:** MySQL (for database setup), Visual Studio Code (for coding).
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Group Members

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