(CSET-455) Lab Assignment No 2 – Identifying the requirements

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EB-08

1. Allow New Students to Login and Register

Create a user registration interface.

Collect necessary student information during registration.

Implement authentication mechanisms for secure login.

Provide password recovery options.

Generate unique student IDs for each registered student

**Login And register**

**Password recovery**

**Collect info**

**Registeration**

**Authentication**

**Generate Uid**

2. Check Eligibility Criteria and Enforce Semester-based Course Selection

Define eligibility criteria for each semester.

Implement a course selection interface for eligible students.

Validate student eligibility based on pre-defined criteria.

Display available courses and allow students to select courses.

Implement logic to prevent ineligible students from registering.

**Course selection with eligibility criteria**

**Course selection**

**Elegiblity criteria**

**Display and selection of courses**

**Validate eligiblity**

**Prevent ineligible students**

3. Allow Modification, Updating, and Deletion of Student Details

Develop a student profile management interface.

Enable students to update personal information.

Implement a process to modify course selections before registration closes.

Provide the option to delete a student's profile if required.

**Update personal info**

**Student profile interface**

**Option to delete profile**

**Modify Course Selection**

**Modify,Update and Deletion of details**

4. Send Registration Applications to Administrator, HOD, and Staff

Design a notification system for registration submissions.

Notify administrators, Head of Department (HOD), and staff about new registrations.

Include relevant student details in the notification.

Implement email or messaging integration for notifications.

**Notify HOD,Admin and staff**

**Notification for registration**

**Email and message notification**

**Include relevant details in notifications**

**Administration**

5. Provide Option for Students to Download Registration Application

Create a downloadable PDF version of the registration application.

Include all relevant student information in the downloadable PDF.

Make the PDF accessible for students through their profiles.

**Include Information**

**Create Downloadable PDF version**

**PDF accessibility in student profile**

**Dowload Registration Applications**

6. Enable Authorized Users to Retrieve Student Details

Implement role-based access control for different user roles (e.g., student, administrator, HOD).

Develop interfaces for authorized users to search and retrieve student information.

Ensure data privacy and security when providing access to student details.

**Interface to search and retrieve info**

**Role based Control**

**Data Privacy and security**

**Authorized users for student details**

7. Store All Student Details in a Database

Design a database schema to store student information.

Create tables for student profiles, course selections, and related data.

Implement data persistence mechanisms to store and retrieve information.

Set up regular data backups to prevent data loss.

**Create Tables**

**Database Schema**

**Regular Databackups**

**Store and Retrieve info from db**

**Store details in Database**