## User Story & Use Case

1. **Title:** Home

**Actor**: Admin, Faculty, Instructor, Student

**Description**: It will have the following attributes:

* Name (Faculty, Instructor, Student)
* ID (Student)
* Email (Faculty, Instructor, Student)
* Degree (Student)
* Curriculum Name (Student)
* Faculty advisor (Student)
* Faculty Name (Student)
* Faculty Email (Student)

**Precondition:** None.

**Exception:** None.

1. **Title:** Profile Information

**Actor:** Faculty, Instructor, Student

**Description:** Students will able to see their information

**User Story:** As a student, I can check student information, as per my need.

**Precondition:** None.

**Exception:** None.

1. **Title:** Change Password

**Actor:** Admin, Faculty, Instructor, Student

**Description:** Admin, Student, Faculty, and Instructor will able to change their own password. But the admin will able to change everyone’s password.

**User Story:** As Admin/Student/Faculty/Instructor, I can change my password so that I can work on my account if I forget the password.

**Precondition:** Enter current password.

**Exception:** The following are the exceptions:

* Entered the wrong current password.
* New password must match criteria.
* Confirm password doesn’t match.

1. **Title:** Grade History

**Actor:** Student

**Description:** Check the grade history of all the completed courses.

**User Story:** As a student, I can check my previous semester’s grades so that I will be able to know my condition.

**Precondition:** None.

**Exception:** None.

1. **Title:** Payment Status

**Actor:** Student

**Description:** Check current balance.

**User Story:** As a student, I want to check my current balance if it is needed.

**Precondition:** None.

**Exception:** None.

1. **Title:** Attendance

**Actor:** Student

**Description:** View attendance.

**User Story:** As a student, I want to view attendance so that I can know about attendances of each courses of any semesters.

**Precondition:** None.

**Exception:** None.

1. **Title:** Faculty Evaluation

**Actor:** Student

**Description:** Evaluate faculty.

**User Story:** As a student, I can do faculty evaluations so that I will be eligible for advising.

**Precondition:** None.

**Exception:** All points must be checked.

1. **Title:** Curriculum

**Actor:** Student

**Description:** View enrolled curriculum.

**User Story:** As a student, I can see the curriculum so that I can take courses mentioned in the curriculum.

**Precondition:** None.

**Exception:** None.

1. **Title:** Message History

**Actor:** Student

**Description:** Check message inbox.

**User Story:** As a student, I can check messages so that I can learn about a new notice from the chairman, VC, and IT.

**Precondition:** None.

**Exception:** None.

1. **Title:** User Guides

**Actor:** Admin, Faculty, Instructor, Student

**Description:** View the following guidelines:

* Recovery Password
* Access Portal
* Join Online Class
* Email Password Reset
* Message History
* Login to Classroom Using the Mobile
* Email Through Mobile
* Add NID & Birth Certificate
* Advising
* Degree guideline

**User Story:** As a student/faculty/admin/instructor, I need a special option so that I can do the mentioned tasks as per my need.

**Precondition:** None.

**Exception:** None.

1. **Title:** Take Attendance

**Actor:** Faculty, Instructor

**Description:** Take students’ attendance.

**User Story:** As a faculty/instructor, I can take attendance so that I can do regular activity of academic without doing manually.

**Precondition:** None.

**Exception:** Fill in all the student’s attendance.

1. **Title:** Send Message

**Actor:** Faculty

**Description:** Send a message to students.

**User Story:** As a faculty, I can send messages to students so that I can inform students about class cancellations.

**Precondition:** None.

**Exception:** None.

1. **Title:** Grade Submission

**Actor:** Faculty

**Description:** Submit student’s grades.

**User Story:** As a faculty, I can submit students’ grades because of university authorities’ rules.

**Precondition:** None.

**Exception:** Must select from the predefined grade letter list.

1. **Title:** View Faculty Evaluation

**Actor:** Admin

**Description:** View faculty evaluation done by students.

**User Story:** As an admin, I can view faculty evaluations to judge faculties.

**Precondition:** None.

**Exception:** None.

1. **Title:** Add Student

**Actor:** Admin

**Description:** Add student to the database.

**User Story:** As an admin, I can add a new student admitted or newly advised.

**Precondition:** None.

**Exception:** The followings are exceptions:

* All the information must be given.
* Cannot have duplicates.

1. **Title:** Edit Student Information

**Actor:** Admin

**Description:** Edit student information.

**User Story:** As an admin, I can edit student information as per the student’s needs.

**Precondition:** The student must be in the database.

**Exception:** Cannot delete any information.

1. **Title:** Add Faculty

**Actor:** Admin

**Description:** Add faculty to the database.

**User Story:** As an admin, I can add faculty who are newly joined the university.

**Precondition:** None.

**Exception:** The followings are an exception:

* All the information must be given.
* Cannot have duplicates.

1. **Title:** Edit Faculty

**Actor:** Admin

**Description:** Edit faculty information.

**User Story:** As an admin, I can edit faculty information if it is needed by faculties.

**Precondition:** Faculty must be in the database.

**Exception:** Cannot delete any information.

1. **Title:** Add Instructor

**Actor:** Admin

**Description:** Add the instructor to the database.

**User Story:** As an admin, I can add instructors who are newly joined the institution.

**Precondition:** None.

**Exception:** The followings are exceptions:

* All the information must be given.
* Cannot have duplicates.

1. **Title:** Edit Instructor

**Actor:** Admin

**Description:** Edit instructor information.

**User Story:** As an admin, I can edit student information if it is needed.

**Precondition:** The instructor must be in the database.

**Exception:** Cannot delete any information.

1. **Title:** Advising

**Actor:** Admin, Faculty

**Description:** Enroll students in the course section.

**User Story:** As an admin, I can advise enrolling a student in each semester who has done a faculty evaluation.

**Precondition:** None.

**Exception:** The followings are exceptions:

* All the information must be given.
* Cannot have duplicates.
* Section cannot be full.

1. **Title:** Faculty Assign

**Actor:** Admin

**Description:** Assign faculty to the course section.

**User Story:** As an admin, I can assign faculty members to each section so that all sections can get their faculty.

**Precondition:** None.

**Exception:** The followings are an exception:

* All the information must be given.
* Cannot have duplicates.
* Only one faculty per section.

1. **Title:** Instructor Assign

**Actor:** Admin

**Description:** Assign instructor to course section.

**User Story:** As an admin, I can assign an instructor to each section so that all section can get their instructors.

**Precondition:** None.

**Exception:** The followings are exceptions:

* All the information must be given.
* Cannot have duplicates.
* Only one instructor per section.

1. **Title:** Payment Status

**Actor:** Student

**Description:** Check current balance.

**User Story:** As a student, I want to check my current balance if it is needed.

**Precondition:** None.

**Exception:** None.

1. **Title:** Payment History

**Actor:** Student

**Description:** Check past payments.

**User Story:** As a student, I want to check past payments as per my need.

**Precondition:** None.

**Exception:** None.

Here's how the use cases map to the various pages and functionalities:

1. **Home:** Handled by the **Home Page** for all users.
2. **Profile Information:** Covered by the **Profile Page**.
3. **Change Password:** Managed in the **Profile Page** and for admins in the **User Management Page**.
4. **Grade History:** Part of the **Student Dashboard**.
5. **Payment Status:** Part of the **Student Dashboard** and **Finance Management Page** for Admin.
6. **Payment History:** Part of the **Student Dashboard** and **Finance Management Page** for Admin.
7. **Attendance:** Handled by the **Attendance Page** for students and the **Class Management Page** for faculty and instructors.
8. **Faculty Evaluation:** Handled by the **Evaluation Page** for students and viewed by admins on the **Academic Management Page**.
9. **Curriculum:** Part of the **Course Page** for students.
10. **Message History:** Handled by the **Messaging Page** for all users.
11. **User Guides:** This would be part of the **User Guides/Help Page**.
12. **Take Attendance:** Part of the **Class Management Page** for faculty and instructors.
13. **Send Message:** Handled by the **Messaging Page** for all users.
14. **Grade Submission:** Part of the **Grades Submission Page** for faculty.
15. **View Faculty Evaluation:** Part of the **Academic Management Page** for admins.
16. **View Student Payment History:** Handled in the **Finance Management Page** for admins.
17. **Add Student:** Part of the **User Management Page** for admins.
18. **Edit Student Information:** Also part of the **User Management Page** for admins.
19. **Add Faculty:** Part of the **User Management Page** for admins.
20. **Edit Faculty:** Also part of the **User Management Page** for admins.
21. **Add Instructor:** Part of the **User Management Page** for admins.
22. **Edit Instructor:** Also part of the **User Management Page** for admins.
23. **Advising:** This would be handled by the **Advising Page** for admins and faculty.
24. **Faculty Assign:** This would be handled by the **Role Assignment Page** for admins.
25. **Instructor Assign:** This would also be handled by the **Role Assignment Page** for admins.

# Pages

1. **Login Page:** For user authentication. All users (admin, faculty, instructor, student) can log in.
2. **Password Reset Page:** For users who forgot their passwords. It uses the password\_reset\_request table.
3. **Register Page:** For new users to register. All user types can register on this page.
4. **Dashboard Page:** This would be the landing page after a successful login. It will display different options depending on the user type (admin, faculty, instructor, student).
5. **User Profile Page:** Display and update details of a user. All user types can view and update their personal details.
6. **Department Pages:** For each department to display the department's information, list of courses, and the department chair.
7. **Course Pages:** For each course to display course information, sections, and enrollments. Students can enroll in courses from this page.
8. **Section Pages:** For each section to display section details and the list of enrolled students. Faculty and instructors can see their assigned sections.
9. **Attendance Page:** For faculty and instructors to take attendance. They can update the attendance records of students in their sections.
10. **Grades Page:** For faculty and instructors to assign grades to students. Students can view their grades here.
11. **Payment Page:** For students to pay tuition and fees.
12. **Message Page:** For users to communicate with each other. All user types can send and receive messages.
13. **Curriculum Page:** For faculty and instructors to view and update the curriculum of their respective courses.
14. **Assignment Pages:** For faculty and instructors to manage their assigned sections.
15. **Evaluation Page:** For faculty and instructors to evaluate their students, and for students to view their evaluations.
16. **Admin Dashboard:** An overview of the system, possibly showing some statistics, recent activities, or notifications. This page serves as a central hub to navigate to other administrative functionalities.
17. **User Management Page:** Admins can manage all user accounts here, regardless of their type (admin, faculty, instructor, student). Functions include creating, viewing, editing, and deleting user profiles.
18. **Academic Management Page:** This page will house the management functions for departments, courses, and sections. Admins can create, view, edit, and delete information related to these academic entities.
19. **Role Assignment Page:** On this page, admins can manage department chairs, faculty assignments, and instructor assignments. They can assign roles to users and change these assignments when necessary.
20. **Map Page:** It would be beneficial to have a dedicated page that provides the campus map and directions.