

Use Case Specification: User CRUD (Create, Read, Update and Delete) Operations

1.1. Brief Description

This use case allows the admin to create, read, update and delete user's profile.

1.2. Actors

Administrator

1.3. Preconditions

- Admin user is logged into the system.

1.4. Flow of Events

1.4.1. Basic Flow: Create

User Action	System Response
1. Admin navigates to "User > create"	1. The application displays a form with below fields: First name, last name, username, password and role (Admin, Faculty, Student) 1.1 If role is Student, entry and track fields are displayed. 1.2 If role is faculty, there is one more option to select if he/she is Admin or not.
2. The admin user populates the fields and submits the form.	2. Success message is displayed

1.4.2. Exceptional Flow: Create

User Action	System Response
1. User provides duplicate username	1. System provides an error message - "Username already exists" and re-displays the login page.

1.4.3. Basic Flow: Read (List all users)

User Action	System Response
1. Admin navigates to user page.	1. The application displays a list of users.

1.4.4. Basic Flow: Update

User Action	System Response
1. Admin navigates to user page.	1. The application displays a list of users. Each entry in the list will have links to edit and delete the entry.
2. The admin user clicks the edit link for one of the users in the list.	2. The application displays a page with an editable form containing user information for the selected user.
3. The admin updates user's information as desired and submits the form.	3. Success message is displayed.

1.4.5. Basic Flow: Delete

User Action	System Response
1. Admin navigates to user page.	1. The application displays a list of users. Each entry in the list will have links to edit and delete the entry.
2. The admin user clicks the delete link for one of the users in the list.	2. The application prompts for confirmation to delete.
3. The admin clicks ok to confirm deletion.	3. Success message is displayed.

1.4.5. Alternate Flow: Delete

User Action	System Response
1. Admin clicks cancel to confirm deletion.	1. Admin will be redirected back to the system user page.

1.5. Post-Conditions

- In case of new user creation, a new user record is added to the DB.
- In case of user update operation, a existing record is updated with the new values provided by the admin.
- In case of user deletion operation, the record for the selected user is deleted from the DB.

1.6. Business Rules

- Only an admin user is authorized to access these pages to perform user CRUD operation
- Only existing record can be updated or deleted.

1.7. Nonfunctional Requirements

NA