

Appendix II: Use case documentation

UC1 Login to account

Enable users to login into the application to access certain menus.

Basic flow of events

The use case begins when the system present user a login form.

System:	Ensures that users enter username and password. (A1) Verify user input. (A2)
User:	Enter username and password. (A3)
System:	Verifies the username and password entered is correct. (A4) Determine the type of user and Display the user Dashboard and menus Keep logs

Alternative flows

A1-Username and password field cannot be empty

The user submit an empty field, both username and password field must be empty.

System:	Prompt the user that username and password field cannot be empty
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A2 - Unwanted character entered

The system cannot allow unwanted character. User must have entered unwanted character.

System:	Prompt the user that unwanted characters are not allowed.
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A3 – Lock account

System detect that login details are entered more than the required number of times

System:	Lock account after N failed attempts
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A4 – Incorrect username and password

System verifies the login details to be incorrect

System:	Display incorrect username and password.
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UC2 Manage users

Enable system manager (user) to add new user, view and edit user detail.

Basic flow of events

The use case begin when the user logged in successfully.

System:	Display user dashboard and menu options. e.g. "Manage user" menu
System manager:	Click on the manage user menu.
System:	Display the sub menu options for managing user, these are: Add, edit, and view user
System manager:	Selects one of the sub menu to Add user. (A1, A2)
System:	Present user registration form for user to input full name, username, number, select department, select user type with submit button.
System manager:	Enter name, username, number, select department, select user type and click on submit button. (A3)
System:	Ensure no field is left empty. (A4) Verify user input. (A5) Add the new user. (A6)

Alternative flows

A1 – Edit user

A2 – View user

A3 - Session Timeout

The system detects a session timeout

System: Displays timed out message and/or re-directs to login page.

A4 – Empty fields not allowed

System: detect empty fields submitted

System: Prompt/Display all field are required, no field can be left empty

A5 – Unwanted input (character)

System detect that special character are inputted

System: Special Characters not allowed

A6 – User registration successful

System: prompt/display user registration successful

UC3 Manage Students

Enable system manager (user) to add, edit and view student records.

Basic flow of events

The use case begin when the user logged in successfully”.

System:	Display user dashboard and menu options. e.g. “Manage students” menu.
System manager:	Click on the manage students menu
System:	Display the sub menu option for managing student record, These are: Add, Edit, and view student.
System manager:	Select one of the sub menus to add new student. (A1, A2)
System:	Present student registration form for user to enter student name, number, department, gender, session with a submit button.
System manager:	Enter student name, number, department, session, gender then click on submit button. (A3)
System:	Ensure no field is left empty. (A4) Verify user input. (A5) Register and Create account for student. (A6)

Alternative flows

A1 – Edit student

A2 – View student

A3 - Session Timeout

The system detects a session timeout

System: Displays timed out message and/or re-directs to login page.

A4 – Empty fields not allowed

System: detect empty fields submitted

System: Prompt/Display all field are required, no field can be left empty

A5 – Unwanted input (character)

System detect that special character are inputted

System: Special Characters not allowed

A6 – student registration successful

System: prompt/display students registration successful

UC4 Manage courses

Enable system manager (user) to add, edit and view Courses.

Basic flow of events

The use case begin when the user logged in successfully.

System:	Display user dashboard and menu options. e.g. "manage courses" menu.
System manager:	Click on the manage courses menu
System:	Display the sub menu option for managing courses, These are: Add, Edit, and view courses.
System manager:	Select one of the sub menus to add new course. (A1, A2)
System:	Present course registration form for user to enter course title, code, department, unit, semester, session with a submit button.
System manager:	Enter course title, code, department, unit, semester, session, then click on submit. (A3)
System:	Ensure no field is left empty. (A4) Verify user input. (A5) Register courses (A6)

Alternative flows

A1 – Edit courses

A2 – View courses

A3 - Session Timeout

The system detects a session timeout

System: Displays timed out message and/or re-directs to login page.

A4 – Empty field not allowed

System: detect empty fields submitted

System: Prompt/Display all field are required, no field can be left empty

A5 – Unwanted input (character)

System detect that special character are inputted

System: Special Characters not allowed

A6 – student registration successful

System: prompt/display course registration successful

UC5 manage backups

Enable system manager (user) create backup and import backup

Basic flow of events

The use case begin when the user logged in successfully".

System:	Display user dashboard and menu options. e.g. "manage backup" menu.
System manager :	Click on the "manage backup" menu
System:	Display the sub menu option for managing backup, these are create backup and import backup
System manager:	Select the sub menu option to create backup. (A1)
System:	Create Backup. (A2)

Alternative flow

A1 – Import Backup

A2 – Backup created

System: prompt/Display backup created successfully.

UC6 Manage results

Enable coordinator (user) to input/import, edit, and view results.

Basic flow of events

The use case begin when the user logged in successfully.

System:	Display user dashboard and menu options. e.g. "manage result" menu.
Coordinator:	Click on the menu "manage result".
System:	Display the submenu option to manage result, these are input/import result, Edit result, input CO, View result
Coordinator:	Select the option Import result. (A1, A2, A3)
System:	Present the form to for user to select programme, session and semester, with a submit button
Coordinator:	Select programme, session and semester, then click on submit.
System:	Ensure programme, session and semester is chosen. (A4) Display form to select course code, select file to import with submit button
Coordinator:	Select course code, select file to import, then click on submit button. (A5)
System:	Ensure course code and file to import is chosen. (A6, A7) Import records. (A8) Keep logs

Alternative flows

A1 – Edit result

A2 – Input Carry - Over Result

A3 – View Results

A4 – No empty field is allowed

System detect that empty files submitted

System: Prompt/display empty fields cannot be submitted.

A5 - Session Timeout

The system detects a session timeout

System: Displays timed out message and/or re-directs to login page.

A6 – No empty field is allowed

System detect that empty files submitted

System: Prompt/display empty fields cannot be submitted.

A7 – file chosen must be in ".csv" format

System detect file chosen is not ".csv" file

System: Display/prompt incorrect file format

A8 – records imported

UC7 Import student scores

Enable Teaching staff (user) to import students score

Basic flow of events

The use case begun when the user logged in successfully.

System:	Display user dashboard and menu options. e.g. menu "import score"
Teaching staff:	Click on the menu "import score".
System:	Present a form for user to select course code and choose a file to import with submit button.
Teaching staff:	Select course code, choose a file then click on submit button. (A1)
System:	Ensure course code and file is chosen. (A2) Import score. (A3) Keep logs

Alternative flows

A1 - Session Timeout

The system detects a session timeout

System: Displays timed out message and/or re-directs to login page.

A2 – Empty fields not allowed

System detect that empty files submitted

System: Prompt/display empty fields cannot be submitted.

A3 – records imported

System: Prompt/Display records imported

UC8 Student profile

Enable student (user) to View results

Basic flow of events

The use case begun when the user logged in successfully.

System:	Display user dashboard and menu option. e.g. "View result" menu.
Student:	Select "view result"
System:	Display sub menu option for view result, these are Semester1, semester2, semester3, and semester4.
Student:	Select menu option "semester1". (A1, A2, A3)
System:	Display the result for semester 1.

Alternative flows

A1 – Semester 2

A2 – Semester 3

A3 – Semester 4

UC9 Change password

Enable User to change password

Basic flow of events

The use case begun when the user logged in successfully and user selects the option to change their password.

System:	Present password change form and request user to enter their new password.
Teaching Staff	Enters their new password and username and clicks submit. (A1, A2)
System:	Validate the password to ensure it is correct. (A3, A4, A5, A6) Displays confirmation to the user. Keep logs

Alternative Flows

A1 - Cancel

User decides to cancel the process of changing password

System: Returns to dashboard.

A2 - Session Timeout

The system detects a session timeout

System: Displays timed out message and/or re-directs to login page.

A3 - Password Incorrect

The system detect incorrect login details

System: display/prompt incorrect login details

A5 - Unwanted characters in the password

System detect that special character are inputted

System: display/prompt special characters are not allowed

A6 – minimum length exceeded

System detect that the minimum length of character required is exceeded

System: validate password minimum length