

UniX Student Course Enrolment System

Sprint 1 — Requirements & Annotated Wireframes (PDF)

Student Name: Robin Mahato

Student ID: C3492265

Tutor: Rukshan

Date: 2026/02/17

Lucidchart Link: https://lucid.app/lucidchart/a50ad0d2-0bbb-4ddf-af30-e7aa9645d5f3/edit?view_items=-Pox88KUfxGJ&page=0_0&invitationId=inv_44d00eee-eea0-4c32-b9b4-3f6bf9574c10

Table of Contents

1. Project Overview	1
2. Scope.....	1
2.1 In Scope (Sprint 1).....	1
2.2 Out of Scope (Sprint 1).....	1
3. Assumptions	1
4. Functional Requirements (FR).....	2
5. Non-Functional Requirements (NFR).....	2
6. Wireflow (Navigation)	3
7. Annotated Wireframes	5

1. Project Overview

This project designs a web application for students to log in, select a semester that is open for enrolment, and enrol in offered courses for that semester. The Sprint 1 deliverable documents the requirements, wireflow (navigation), and annotated wireframes for both desktop and mobile interfaces.

2. Scope

2.1 In Scope (Sprint 1)

- Student login UI
- Semester selection UI (open/closed handling)
- Course enrolment UI (selection + submission)
- Confirmation/success UI
- Error/empty/session handling UI
- Desktop + Mobile wireframes

2.2 Out of Scope (Sprint 1)

- Actual backend implementation
- Database setup
- Admin portal

3. Assumptions

- Only authenticated students can access semester/course enrolment pages.
- Semester and course offering data will be provided by the system (API/DB) in later sprints.
- Enrolment rules (max units, prerequisites) are not enforced in Sprint 1 unless stated later; basic validation is still shown in UI.

4. Functional Requirements (FR)

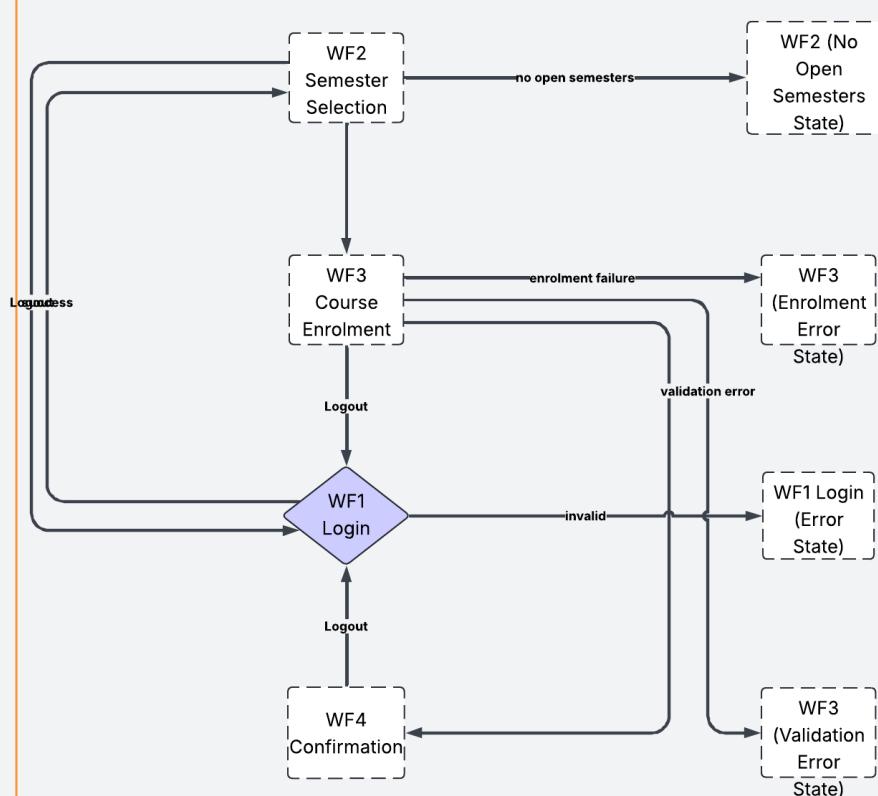
- **FR1:** Student can log in with username/student ID and password.
- **FR2:** System shows an error message for invalid login.
- **FR3:** Student can view a list of semesters and their enrolment status (Open/Closed).
- **FR4:** Student can select only a semester that is Open for enrolment.
- **FR5:** Student can view courses offered in the selected semester.
- **FR6:** Student can select one or more courses for enrolment.
- **FR7:** System blocks enrolment submission when no course is selected and shows a validation message.
- **FR8:** System shows enrolment success and displays enrolled course summary.
- **FR9:** System shows an enrolment failure message when submission fails.
- **FR10:** Student can log out from authenticated pages.
- **FR11:** If session is missing/expired, system shows a session expired/access denied screen.

5. Non-Functional Requirements (NFR)

- **NFR1 (Usability):** Consistent layout, clear labels, and primary actions visible.
- **NFR2 (Accessibility):** Readable text size; clear error messages; buttons large enough on mobile.
- **NFR3 (Security):** Password field masked by default; logout clears session; protected pages require session.
- **NFR4 (Performance):** Course list filter/search should respond quickly (client-side or fast query).

6. Wireflow (Navigation)

PAGE 1 — Wireflow — UniX Student Enrolment



Annotations

ID | UI Element | Behaviour/Rules |
Navigation/Outcome | Data/Dependency |
1 | WF1 Login | Auth checks on submit |
success→WF2; invalid→WF1e | Auth service |
2 | WF2 Semester Selection | Requires active
open term | no open→WF2n; select→WF3 |
Term API |
3 | WF3 Course Enrolment | Validate
selection & units | error→WF3v/WF3f;
success→WF4 | Course API |
4 | WF4 Confirmation | Shows enrol
summary | Logout→WF1 | Enrolment record |
5 | WF5 Session Expired | Blocked access if
no session | Login redirect | Session
middleware |

7. Annotated Wireframes

WF1 — Login

UniX Student Portal

Welcome back

Email Address

Password

Login

Dont have an account?

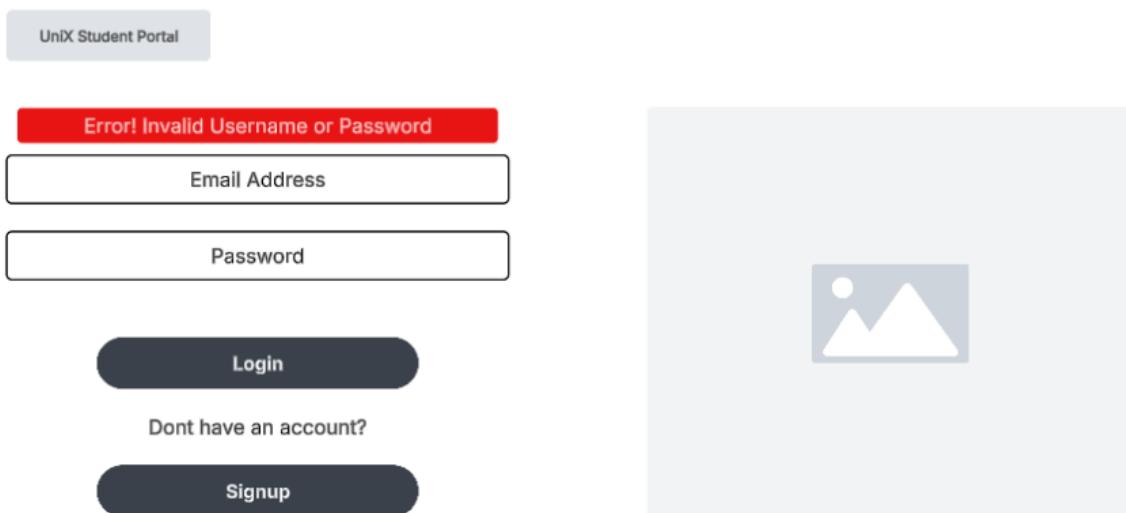
Signup



ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency
1	Username / Student ID field	Required; text input	N/A	Valid student username/ID exists in system
2	Password field	Required; masked input	N/A	Password verification against stored hash
3	Show password toggle	Toggles mask/unmask	N/A	None
4	Login button	Submits login form; validate inputs	Success → WF2 Semester Selection	Authentication service; session creation

5	“Forgot password?” link	Optional link (can be not implemented)	If not implemented → show “Not available”	None / future enhancement
6	Page title / branding	Informational only	N/A	None

WF1 — Login Error



The screenshot shows the Unix Student Portal login interface. At the top, there is a grey header bar with the text "Unix Student Portal". Below it is a white form area. At the top of the form, a red banner displays the error message "Error! Invalid Username or Password". Below the banner are two input fields: "Email Address" and "Password". Underneath these fields is a dark grey "Login" button. To the right of the form, there is a large, light-grey rectangular area containing a small icon of a sun and mountains.

ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency
1	Error banner/message	Shows only after failed login	Stays on WF1	Result returned from authentication
2	Username field highlight/helper	Shows “required/invalid” if empty	N/A	Client-side validation

3	Password field highlight/helper	Shows “required/invalid” if empty	N/A	Client-side validation
4	Login button (retry)	Re-attempt login	Success → WF2; Failure → show error	Authentication service

WF2 — Semester Selection

UniX Student Portal

Welcome Student name!

[Logout](#)

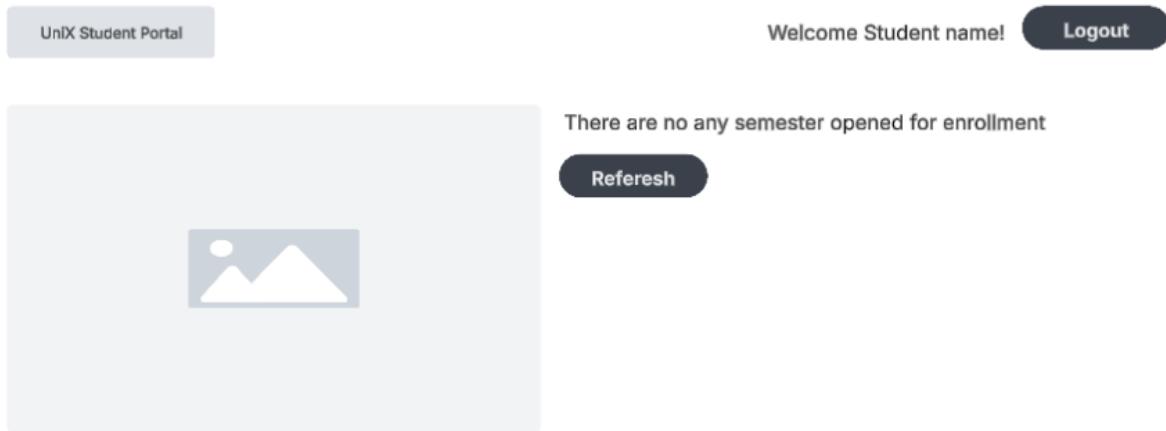
Select your semester

S/N	Semester Name	Action
1	Semester 1	Select
2	Semester 2	Select
3	Semester 3	Select

ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency
1	Welcome text (student name)	Displays logged-in student	N/A	Session must store student name/ID
2	Logout button	Ends session	Logout → WF1 Login	Session clear
3	Semester list/table	Shows available semesters	N/A	Semester dataset from system
4	Status badge (Open/Closed)	Closed = disabled selection	N/A	Enrolment status from system
5	Select semester control (radio/button)	Only Open selectable	Enables Continue	Selected semester stored (session/state)

6	Continue button	Disabled until Open semester selected	Continue → WF3 Course Enrolment	Selected semester ID
---	-----------------	---	---------------------------------------	-------------------------

WF2 — No Open Semesters



ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency
1	Empty-state message	Display when no Open semesters exist	N/A	Semester list query result
2	Refresh button	Re-check open semesters	Refresh → stays on WF2	Re-fetch semesters
3	Logout button	Ends session	Logout → WF1	Session clear

WF3 — Course Enrolment

The screenshot shows a user interface for course enrollment. At the top, there's a header with "UniX Student Portal" and "Logout". Below that is a "Course Enrollment" section. It has a search bar labeled "Search by course code or name" with a "Search" button. To the right is a "Selected courses" panel with a "Total Units: _____" field and an "Enroll" button. Below the search bar is a table titled "Courses offered in this semester" with columns for "S/N", "Course Name", and "Action". The table contains three rows, each with "introduction to computing" in the "Course Name" column and a "Select" button in the "Action" column. At the bottom left is a "Back to Semesters" button.

ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency
1	Semester label (e.g., “2026 S1”)	Shows currently selected semester	N/A	Selected semester ID from WF2
2	Logout button	Ends session	Logout → WF1	Session clear
3	Search box	Filters course list by code/name	Updates list live/on enter	Course list in memory / query
4	Course table/list	Displays offered courses for semester	N/A	Course offerings dataset
5	Select checkbox (per course)	Toggle selection	Adds/removes from Selected panel	Selected courses state
6	Course details columns	Code/Name/Units/etc.	N/A	Course data fields

7	Selected Courses panel	Shows chosen courses	N/A	Selected courses state
8	Remove (x) in Selected panel	Removes a selected course	Updates table + totals	Selected courses state
9	Total Units counter	Auto-calculates from selection	Updates instantly	Units per course
10	Enrol button	Submits selected courses	Success → WF4 Confirmation	Enrolment endpoint + validation
11	Back to Semesters button	Navigate back	WF2 Semester Selection	Keep session active

WF3 — Validation Error

The screenshot shows the UniX Student Portal Course Enrollment interface. At the top, there is a navigation bar with 'UniX Student Portal', 'Welcome Student name!', and a 'Logout' button. Below the navigation bar, a red validation message 'Validation! Select at least one course' is displayed. To the right of the message, the text 'Course Enrollment' is visible. Below the validation message, there is a search bar labeled 'Search by course code or name' and a 'Search' button. To the right of the search bar, a 'Selected courses' section is shown, which is currently empty. Below the search bar, a list of courses offered in the current semester is displayed in a table. The table has columns for 'S/N', 'Course Name', and 'Action'. Each row contains the number 1, 2, or 3, followed by the text 'introduction to computing', and three 'Select' buttons in the 'Action' column. At the bottom left, there is a 'Back to Semesters' button.

S/N	Course Name	Action
1	introduction to computing	Select Select Select
2	introduction to computing	Select Select Select
3	introduction to computing	Select Select Select

ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency

1	Validation banner/message	Show when Enrol clicked with zero selection	Stays on WF3	Client/server validation
2	Enrol button (disabled or retry)	Either disabled until selection OR retry after selecting	Stays / then submit	Selected courses state
3	Course selection control	User must select ≥ 1 course	Enables Enrol	Selected courses state

WF3 — Enrolment Error

The screenshot shows the UniX Student Portal Course Enrollment interface. At the top, there are navigation links: "UniX Student Portal", "Welcome Student name!", and "Logout". A red banner displays the error message "Error! Course enrollment failed". Below the banner, the title "Course Enrollment" is centered. To the left, a search bar contains the placeholder "Search by course code or name" with a "Search" button next to it. To the right, a panel titled "Selected courses" shows a greyed-out area for course selection. Below the search bar, the heading "Courses offered in this semester" is displayed above a table. The table has three columns: "S/N", "Course Name", and "Action". It lists three rows, each corresponding to "introduction to computing". Each row has a "Select" button in the "Action" column. At the bottom left, a "Back to Semesters" button is visible.

S/N	Course Name	Action
1	introduction to computing	Select
2	introduction to computing	Select
3	introduction to computing	Select

Back to Semesters

ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency
1	Error banner/message	Show when enrolment request fails	Stays on WF3	Enrolment API response
2	Try again / Enrol button	Re-submit request	Success → WF4; failure → error persists	Enrolment endpoint
3	Back button	Leave enrolment screen	WF2 Semester Selection	Session active
4	Selected courses panel	Keep selection after failure	N/A	Selected courses state

WF4 — Confirmation

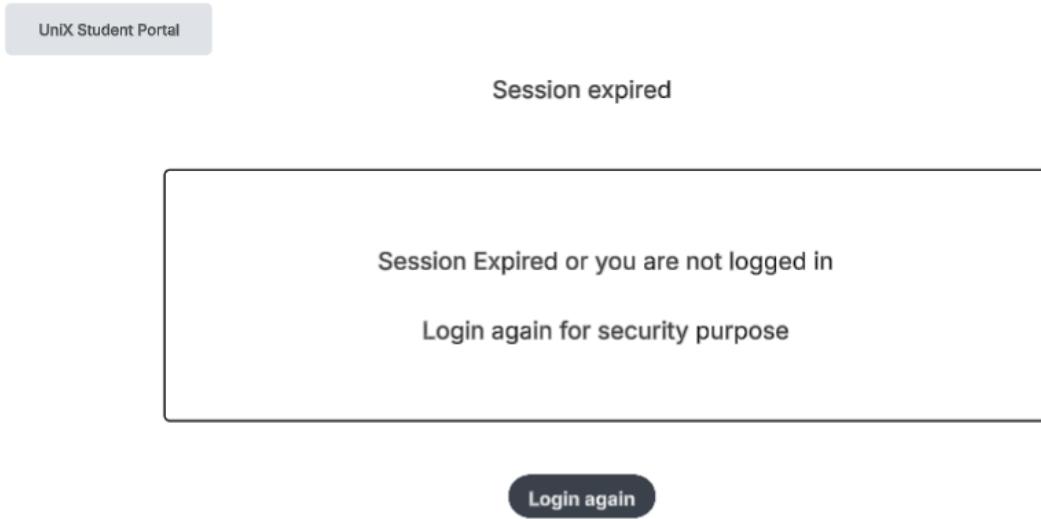
The screenshot shows a web-based student portal interface. At the top left is a grey button labeled "UniX Student Portal". At the top right, there is a "Welcome Student name!" message followed by a "Logout" button. A prominent green horizontal bar across the middle contains the text "Enrollment Successfull". Below this bar, the heading "Summary of enrolled courses" is displayed. A table follows, with columns for "S/N", "Course Name", and "Units". Three rows are listed, each corresponding to a course named "introduction to computing" with units "ABC, XYZ, KJH". At the bottom of the page are two buttons: "Back to Semesters" and "Enroll in more courses".

S/N	Course Name	Units
1	introduction to computing	ABC, XYZ, KJH
2	introduction to computing	ABC, XYZ, KJH
3	introduction to computing	ABC, XYZ, KJH

[Back to Semesters](#) [Enroll in more courses](#)

ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency
1	Success heading	Visible after successful enrolment	N/A	Enrolment success response
2	Enrolled course summary table/list	Displays enrolled courses	N/A	Enrolment result data
3	Enrol more button	Go back to enrolment	WF3 Course Enrolment	Selected semester retained
4	Back to semesters button	Return to semester page	WF2 Semester Selection	Session active
5	Logout button	Ends session	WF1 Login	Session clear

WF5 — Session Expired / Access Denied



ID	UI element	Behaviour / rule	Click outcome / navigation	Data / dependency
1	Message panel	Shows when session missing/expired	N/A	Session timeout / auth check
2	Go to Login button	Navigate to login	WF1 Login	None
3	Note (security)	Informational	N/A	None