

UniX Student Course Enrolment System

Sprint 1 — Requirements & Annotated Wireframes (PDF)

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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

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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)

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

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

UnlX Student Portal

Welcome Student name!

Logout

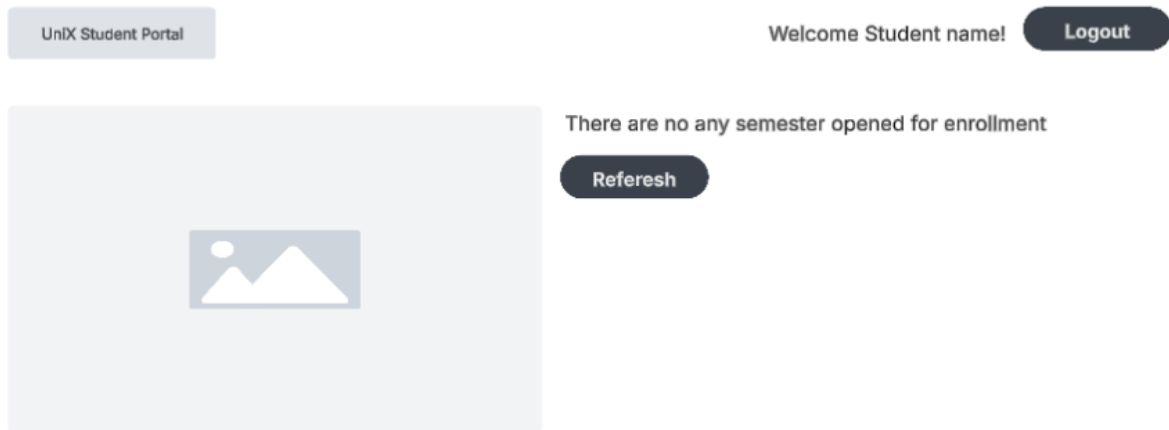
Select your semester

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
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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

UniX Student Portal
Welcome Student name!
Logout

Course Enrollment

Courses offered in this semester

S/N	Course Name	Action
1	introduction to computing	<input type="button" value="Select"/>
2	introduction to computing	<input type="button" value="Select"/>
3	introduction to computing	<input type="button" value="Select"/>

Selected courses

Total Units: ____

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' interface. At the top, there is a 'Welcome Student name!' message and a 'Logout' button. Below this, a red error message states: 'Validation! Select at least one course'. The page title is 'Course Enrollment'. There is a search bar with the placeholder 'Search by course code or name' and a 'Search' button. Below the search bar, it says 'Courses offered in this semester'. A table lists three courses, all named 'introduction to computing', each with a 'Select' button. To the right of the table, there is a 'Selected courses' section with a 'Total Units: ____' label and an 'Enroll' button. At the bottom left, there is a 'Back to Semesters' button.

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

UniX Student Portal

Welcome Student name! Logout

Error! Course enrollment failed

Course Enrollment

Courses offered in this semester

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

Back to Semesters

Selected courses

Total Units: ____

Enroll

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

UniX Student Portal

Welcome Student name!

Logout

Enrollment Successfull

Summary of enrolled 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

UniX Student Portal

Session expired

Session Expired or you are not logged in

Login again for security purpose

Login again

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