

Course Enrollment Application

Your development team has been tasked with developing a prototype for a college course enrollment website called QCfirst.

Below are the specifications of some of the features you are required to implement.

User Management

User signup

Users can be of two types

- 1) students
- 2) instructors

I flag on sign up

Users sign up using their email addresses. The email addresses are used as the QCfirst usernames of the users.

Users need to set their account information where:

- username, password, and first and last names are strings
- a user is assigned an id number which is unique to the user
- one email address can only be used to register one account

User session

A user should only be able to take actions while they are logged in

I next iron session
and cookies

Course Management

An instructor (and only an instructor) can create and delete a course.

R crud

Each course consists of

- a unique number
- a semester
- a course name
- a department
- an instructor
- a roster of students
- a description
- a schedule
- a capacity
- an enrollment deadline (the first day of instruction)

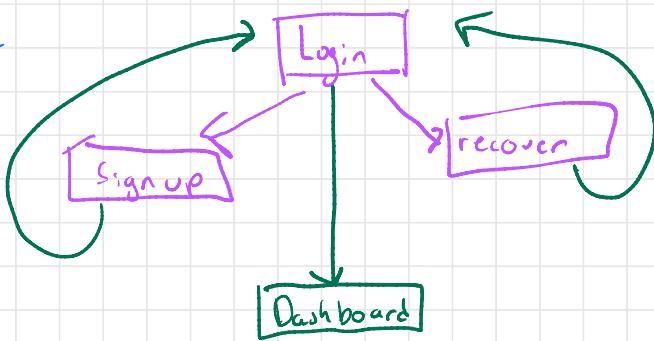
Enrollment Management

A student can only enroll in a course if

- the capacity is not full
- the student is not already enrolled in a course which conflicts with this course
- the enrollment deadline for the course has not passed

Enroll → validate → success/fail

Site Map



User begins on Login which lets them log in their account.

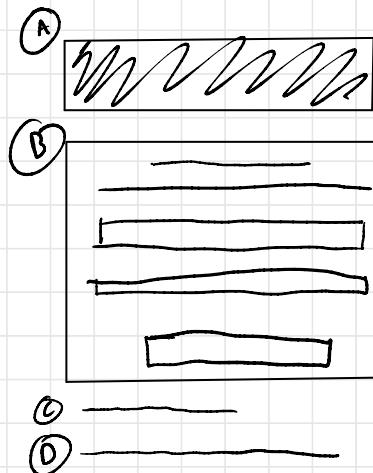
The user is also able to sign up for an account and on success is redirected to the login page

The User is also able to recover their account and reset pass. On success will redirect to to login

From the login the user is able to access their dashboard.

At the dashboard the user is able to create or delete courses if they are a teacher. if they are a student they can enroll and search for courses

Login



(A) Header telling user what page their on
in this case it could be "Login" or "Welcome"

(B) Form that will ask user for

• Username: Email

• Password: String

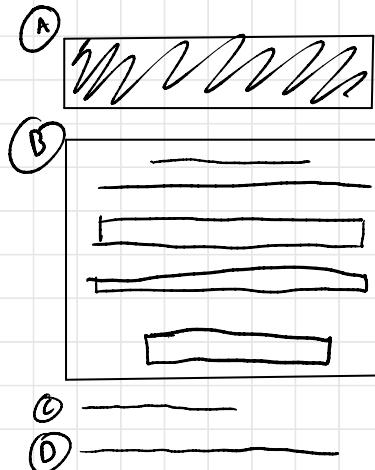
then user submits with a login button which → Dashboard

(C) Will give the user the chance to sign up for account
in case they don't have one

this redirects to Sign Up

(D) Will let the user recover their account in the event they need to → Recover

Recover



(a) : Member

(b) : form that asks for:

if forgot pw:
Email

if forgot Email:
ID

if forgot ID:
Email

First Name

Last Name

password

⑥ Redirect to log in page

⑦ Redirect to sign up page

On success it returns to login with a prompt
that tells user to check email

Email lets them go to a page where
they reset PW

Reset:

will follow the same shape as the other

Dashboard: Student

