

Project Milestone 4

Revised List of Features (in order of priority)

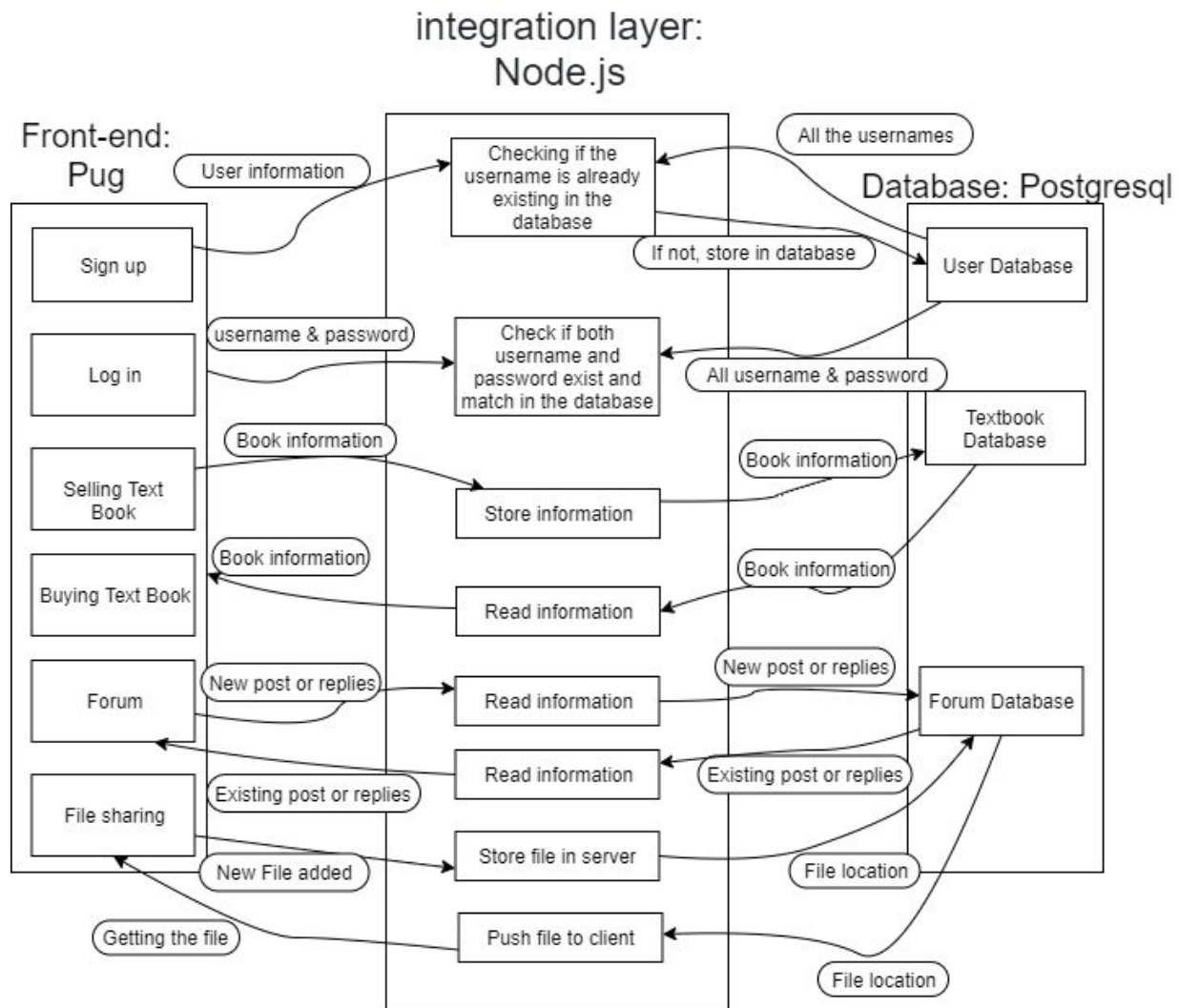
1. Create Account
 - a. Students may create accounts on TextBuddy through a registration page. They will have to provide information about themselves, which will be added to a database of users.
2. Sign In
 - a. If a user already has an account, they can directly login. The login page will verify their username and password, and if it matches a user in the database, they will have access to the site.
3. Sell Textbooks/Notes
 - a. Users can sell textbooks by posting listings for textbooks/notes that they have but no longer need. Information for a textbook being sold or a file being shared will be stored in the database system.
4. Buy Textbooks
 - a. Users will be able to search/buy textbooks and notes. These materials will be separated by category, and the database will store the files and information that is displayed.
5. Forum
 - a. A forum space separated by different categories of courses where people can discuss homework and other class ideas.
6. File sharing
 - a. Users can upload or sell lecture notes, study guides, etc. This will take place within the listings for selling textbooks/notes. The users will have the option of filtering search to only see file uploads of notes.
7. Payment Page
 - a. TextBuddy will not authorize payments. All payment transactions will occur off-site, and TextBuddy will simply be the means by which the users can see what is available for being sold and gain each other's contact information

Prominent changes made from the previous features list:

- We split the create account page and the sign-in/login page into two separate features to accommodate the amount of front-end and back-end implementation required for both.
- We decided that our website will not authorize payments and simply be a means of communication between users; our payment page describes this fact.
- The file-sharing feature will now be incorporated with our listings page (sell textbooks feature), and users will have the option of choosing between view textbook options and files for notes/notebooks.

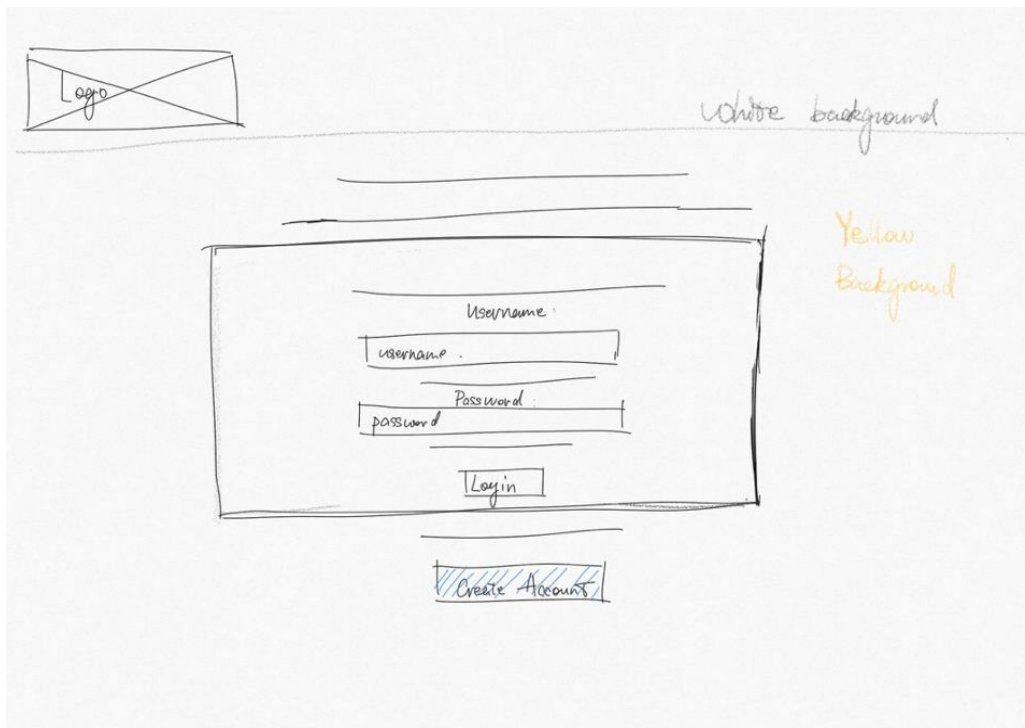
Architectural Diagram

Architecture Diagram

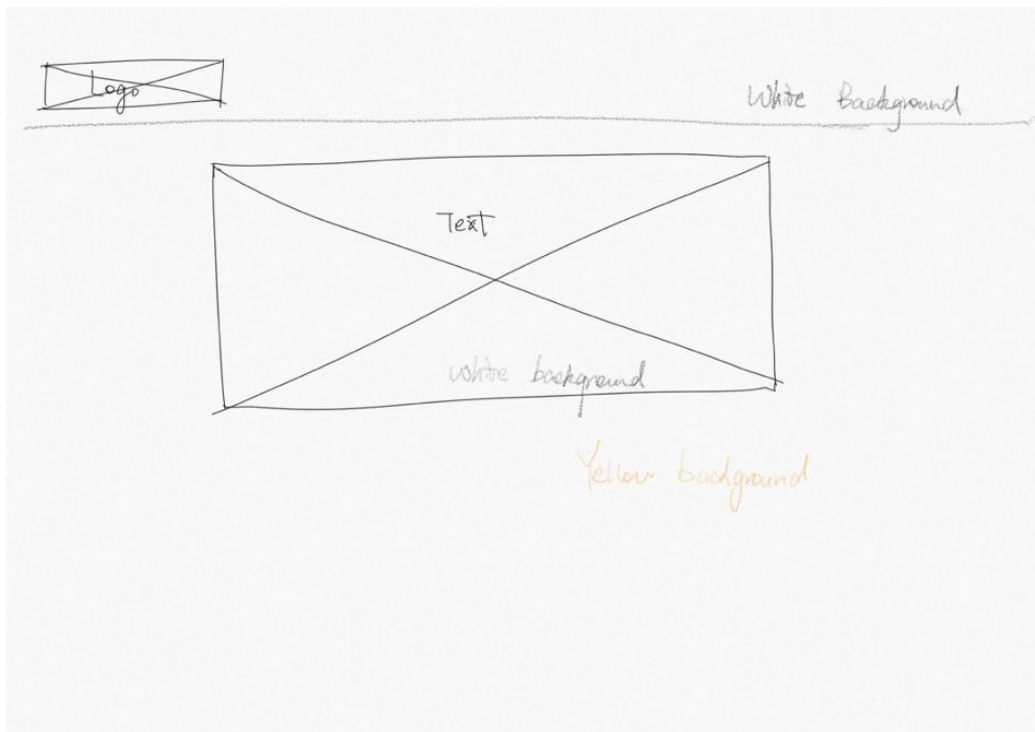


Front End Design

1. Login Page



2. Homepage



3. Sign up Page

Logo

Text

First Name: Last Name:

First Name Last Name

User Name: Password:

User Name Password

Email: Confirm Password:

Email Confirm Password

Password must contain the following

- x
- x
- x
- x

Create Account

CU Student Non-Customer

Login

Yellow background

4. Homepage

Logo

Home Listings Forum

Login

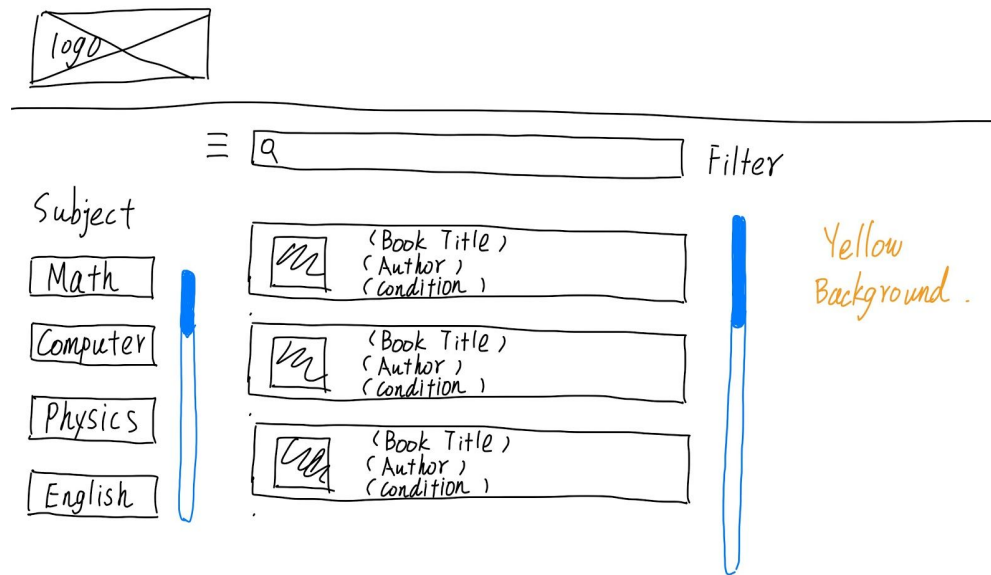
Heading

Text

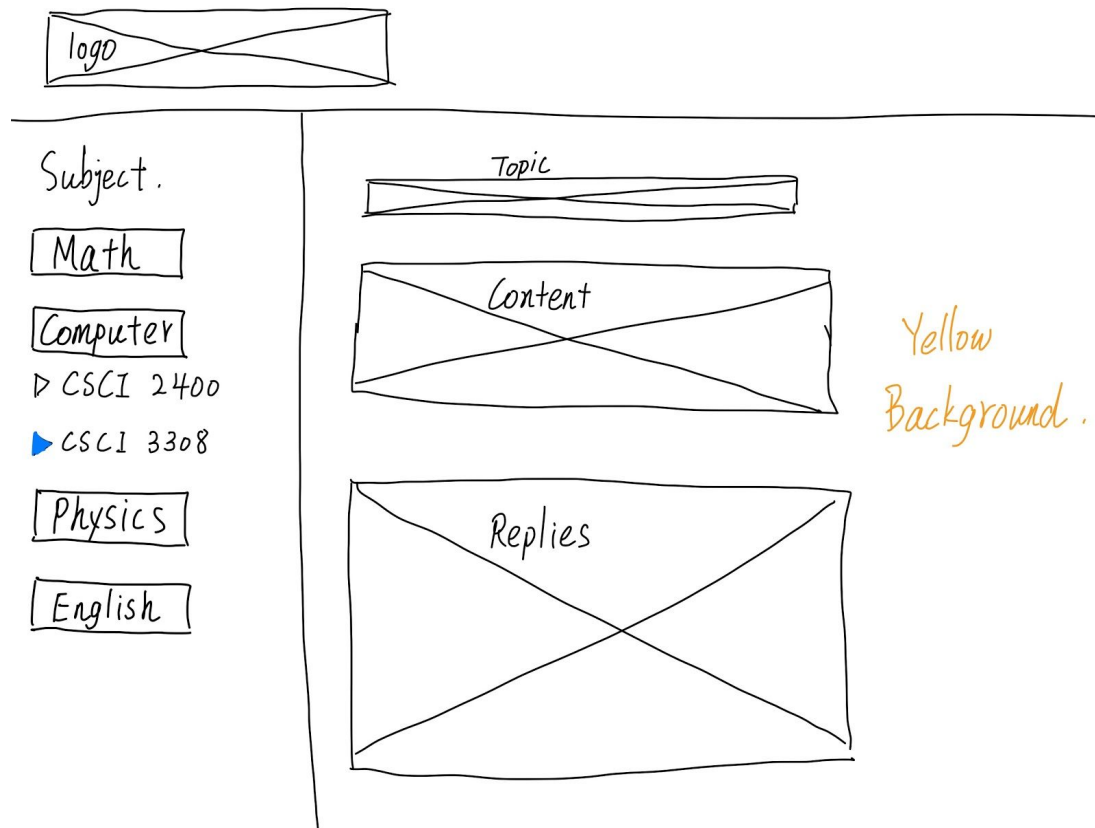
Link to CU Bookstore

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5. Listing page



6. Forum Page

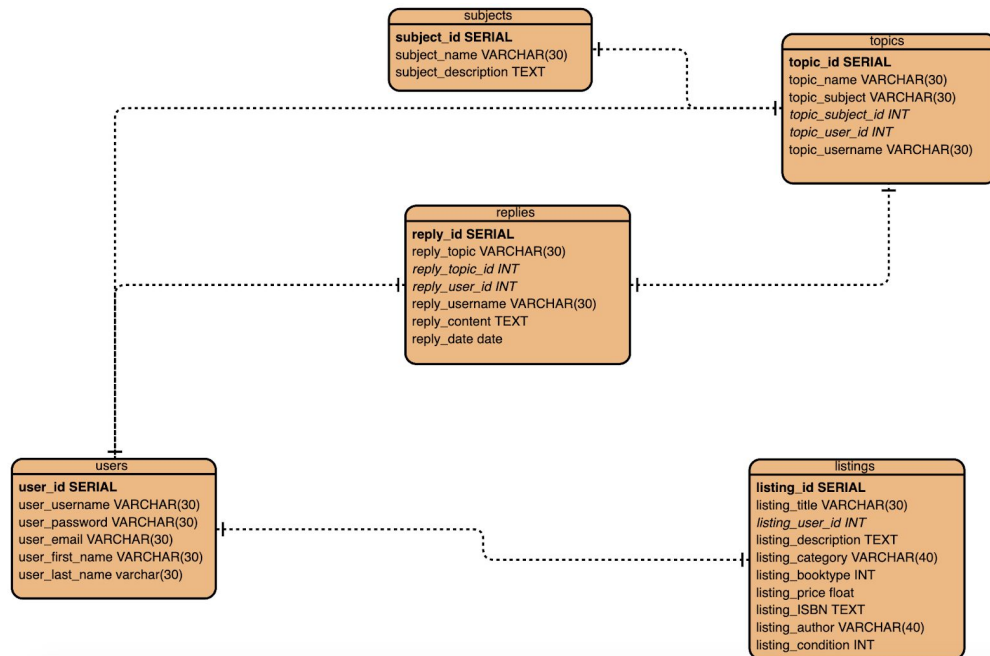


Web Service Design

- We do not plan to incorporate any web services or API's in our project. Our website will simply build on itself and its own resources/database system.

Database Design

- ❖ Our database is making use of Postgresql
- ❖ We have one database that we will connect too, with several tables that will be used for most of the information. The Entity Relationship Diagram will show these tables and their relationships in more detail



- ❖ In the database we will be storing all user information, post information, listing information, and overhead topic information (as in the topic that forum posts will branch from)
 - All of the data within postgresql will be text, numbers, or date (aka usernames, passwords, emails, forum post titles or body, etc)
- ❖ We intend to allow for photo uploads for the forum and listings
 - We will do this by storing photos in a local directory (most likely the same directory that the web pages are stored under, because as of now data usage is not a concern)
 - To do this we will use the multer library within Node.js