

- **Title:** FindMyClass: Simplify Your CU Boulder Course Search

- **Contributors and GitHub Usernames:**

- **Tiya Saini**, tiyasaini3
- **Bryan Steigerwald**, bryansteigerwald
- **Eliot Pontarelli**, kolvian
- **Jonathan Tang**, jota3487
- **Nicole Nageli**, nicolenageli

- **Project Description:**

Discover and validate courses effortlessly with ‘FindMyClass’, your key to navigating the extensive University of Colorado Boulder (CU Boulder) database. In today’s educational landscape, where course options abound, it’s easy to feel overwhelmed. Students often struggle with deciphering complex navigational tools and identifying prerequisite courses. Enter FindMyClass – your solution for simplifying and streamlining the class search process.

With FindMyClass, you can refine your search using keywords, course codes, or specific criteria, making it a breeze to find what you need. Once you’ve narrowed down your choices, the tool swiftly retrieves all pertinent details for each course, including title, description, instructor, schedule, prerequisites, and more. Armed with this accessible and comprehensive information, students can confidently select courses that align with their academic goals.

FindMyClass adapts to diverse needs, whether you’re planning your semester schedule, exploring new subjects, or mapping out prerequisites for advanced courses. It’s your trusty companion throughout your academic journey, simplifying complexities and providing clarity every step of the way. Plus, its intuitive interface ensures a seamless experience for users of all levels, from newcomers to seasoned scholars.

- **Project Tracker - GitHub Project Board:** <https://github.com/users/BryanSteigerwald/projects/2>

Ice Box	Todo	In Progress	Done
<ul style="list-style-type: none"> <li>Group-Project013 #13 ChatGPT class recommender (BryanSteigerwald/Group-Project013 Class Search Backend 13)</li> </ul>	<ul style="list-style-type: none"> <li>This item hasn't been started</li> </ul>	<ul style="list-style-type: none"> <li>This is actively being worked on</li> </ul>	<ul style="list-style-type: none"> <li>Group-Project013 #22 Enhance API Capabilities and Refinement (BryanSteigerwald/Group-Project013 Class Search Backend 8)</li> <li>Group-Project013 #21 Craft the Design for Register, Login, and Logout Pages (BryanSteigerwald/Group-Project013 Class Search Frontend 5)</li> <li>Group-Project013 #18 Register Page (BryanSteigerwald/Group-Project013 Class Search Backend/Frontend 3)</li> </ul>

- **Video:**

[https://cuboulder.zoom.us/rec/share/FYlkCUugswJBN1IATyEZjnobB5WEPpeUMrhEatI7PPg-dwSfZRCxlFqgC3gZyGY.pzFf9LosfXls\\_1bW](https://cuboulder.zoom.us/rec/share/FYlkCUugswJBN1IATyEZjnobB5WEPpeUMrhEatI7PPg-dwSfZRCxlFqgC3gZyGY.pzFf9LosfXls_1bW)

Passcode: &RR0#9M.

- **VCS:** <https://github.com/BryanSteigerwald/Group-Project013>

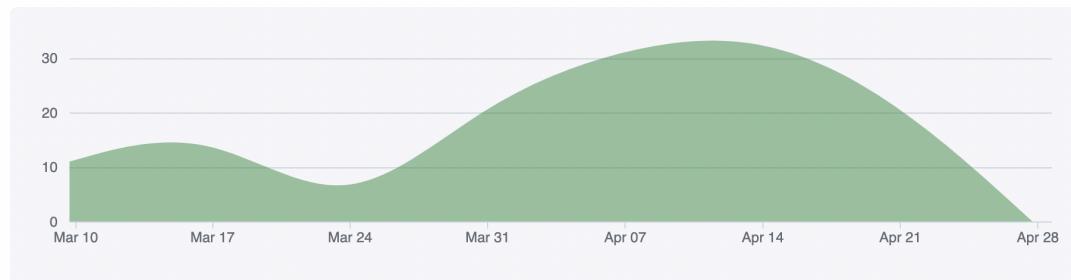
- **Individual Contributions:**

- **Tiya Saini:** Created fully functional Login, Register, Logout, and Home Pages, integrating JavaScript functionalities, API calls, and HTML code seamlessly. Additionally, I developed the primary navigation bar, defining its interaction with the user and specifying its display behavior. Ensured consistency in design across the entire application, meticulously crafting each page for a cohesive user experience. Comprehensively documented the project by completing the README.md file and orchestrating Final Submission releases. Additionally, actively contributed to Team Meeting Logs and implemented modifications to enhance both the backend and frontend aspects of the user profile page, refining elements on the classes page.
- **Bryan Steigerwald:** Introduced the Search functionality to the classes page and crafted the user profile page from scratch, encompassing the creation of .hbs files and endpoint establishment. Enhanced the login API endpoint to facilitate seamless data integration between user profiles and accounts. Additionally, refined the structure and appearance of the user profile page, ensuring a cohesive and visually appealing user experience.
- **Eliot Pontarelli:** Organized the data from the courses.txt file into SQL using python, made the initial SQL config, worked on the front-end for the class search screen, created the recommended classes, created the trending classes, created and implemented prerequisites, fixed the messages, documented scrum meetings with TA, fixed various bugs like register breaking the whole site, navbar issues, and a few other bugs. Worked on wireframes and a few other project submission tasks.
- **Jonathan Tang:** Managed the logistics of the cart button, orchestrating the integration of various data structures, HTML elements, JavaScript functionalities, and API calls to optimize the functionality of the shopping cart feature. Contributed to code refinement, streamlining code structures, and resolving GitHub and Docker-related challenges for enhanced project efficiency.
- **Nicole Nageli:** I started the HTML and CSS for the User Profile page, refined the functionality of the navigation bar to seamlessly display options that adjust based on user login status to create a personalized experience for registered users, added team member information, communication plans, and vision statements to the project's documentation to enhance overall project clarity and cohesion, and enhanced the aesthetics of the user experience by implementing CSS padding across all pages to create a consistent and visually appealing layout.

Mar 10, 2024 – Apr 29, 2024

Contributions: Commits ▾

Contributions to main, excluding merge commits



④ Recitation-013-Team-04

View 1 + New view

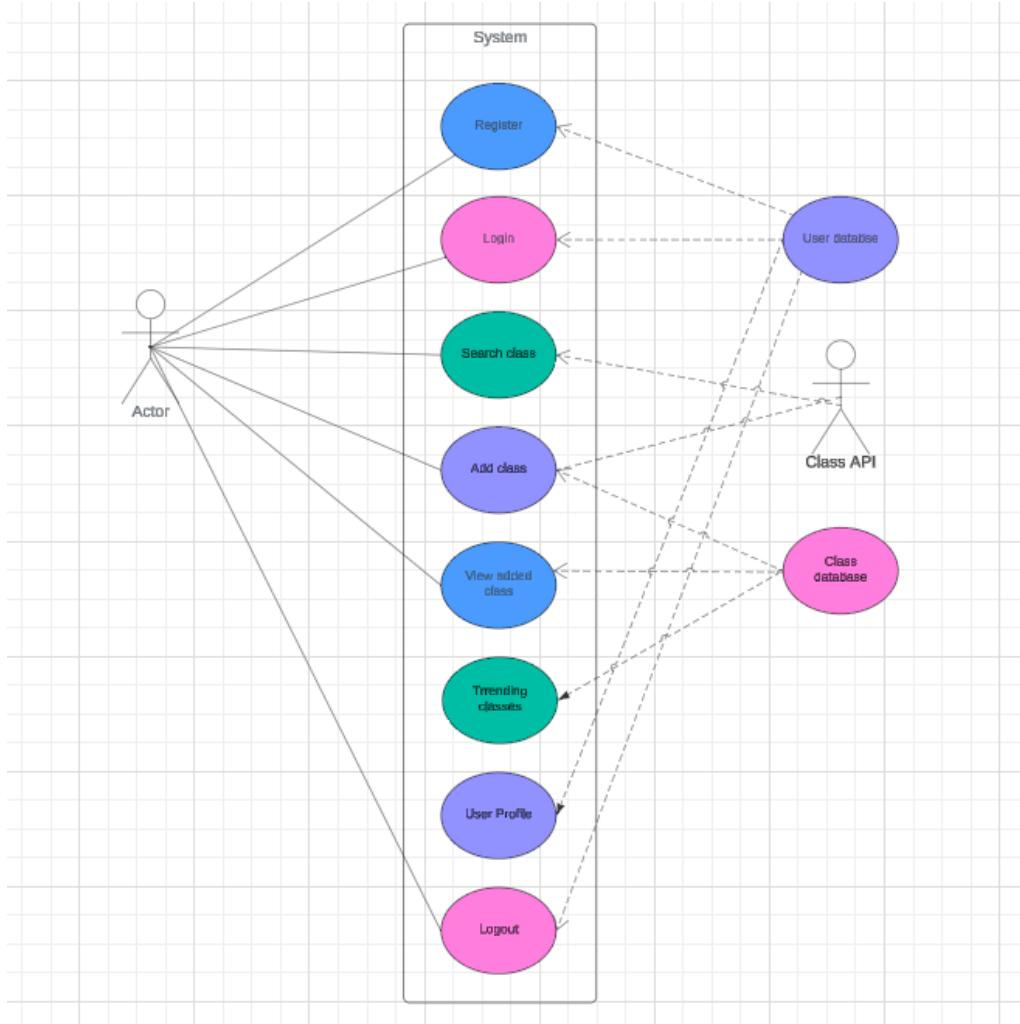
Filter by keyword or by field

Add status update Discard Save

Title	Assignees	Status	Labels	Linked pull requests	Repository	Epic	Story Points	+
1 Enhance API Capabilities and Refinement #22	tiyasin13	Done			BryanSteigerwald@Gro...	Class Search Backend	8	
2 Craft the Design for Register, Login, and Logout Pages #21	tiyasin13	Done			BryanSteigerwald@Gro...	Class Search Frontend	5	
3 Register Page #18	tiyasin13	Done			BryanSteigerwald@Gro...	Class Search Backend/Fr...	3	
4 Login Page #19	tiyasin13	Done			BryanSteigerwald@Gro...	Class Search Backend/Fr...	3	
5 Logout Page #9	tiyasin13	Done			BryanSteigerwald@Gro...	Class Search Backend/Fr...	3	
6 Home Page #15	tiyasin13	Done			BryanSteigerwald@Gro...	Class Search Frontend	3	
7 Unit Test #20	BryanSteigerwald	Done			BryanSteigerwald@Gro...	Class Search Tests	3	
8 Classes Page #16	BryanSteigerwald	Done			BryanSteigerwald@Gro...	Class Search Frontend	5	
9 Search Bar #10	BryanSteigerwald	Done			BryanSteigerwald@Gro...	Class Search Backend	8	
10 Navigation Bar with responsive menu #1	kolvan	Done			BryanSteigerwald@Gro...	Navigation Bar	5	
11 Class Recommendation #6	kolvan	Done			BryanSteigerwald@Gro...	Class Search Backend	5	
12 Course Details Display #11	kolvan	Done			BryanSteigerwald@Gro...	Class Search Frontend	5	
13 Add cart #3	Jots3487	Done			BryanSteigerwald@Gro...	Class Search Backend	3	
14 Remove cart #8	Jots3487	Done			BryanSteigerwald@Gro...	Class Search Backend	3	
15 Shopping cart Page #17	Jots3487	Done			BryanSteigerwald@Gro...	Class Search Frontend	3	
16 User Profile #14	NicoleNageli	Done			BryanSteigerwald@Gro...	Class Search Frontend	5	
17 ChatGPT class recommender #13		Ice Box			BryanSteigerwald@Gro...	Class Search Backend	13	

+ You can use Control + Space to add an item

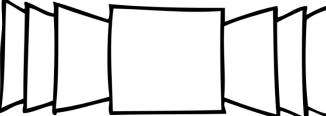
## ● Use Case Diagram:



- **Wireframes:**

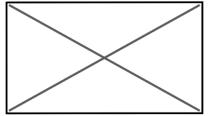
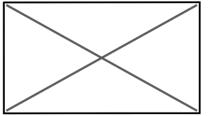
**Original Wireframes:**

Home	Classes	Shopping Cart	Register	Log in					
<b>Find Classes</b>									
<p>Input based on name, description, course ID.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">CSCI 2400 Computer Systems CSCI 3308 Software Develop...</td> <td style="width: 70%;"> <b>CSCI 3308</b>            Software Dev Methods and Tools             This class teaches students to develop software using methods and tools and teaches them JS, SQL, and Node.         </td> </tr> <tr> <td></td> <td style="text-align: right;"> <input type="button" value="Add Class"/> <input type="button" value="Remove Class"/> </td> </tr> </table>						CSCI 2400 Computer Systems CSCI 3308 Software Develop...	<b>CSCI 3308</b> Software Dev Methods and Tools  This class teaches students to develop software using methods and tools and teaches them JS, SQL, and Node.		<input type="button" value="Add Class"/> <input type="button" value="Remove Class"/>
CSCI 2400 Computer Systems CSCI 3308 Software Develop...	<b>CSCI 3308</b> Software Dev Methods and Tools  This class teaches students to develop software using methods and tools and teaches them JS, SQL, and Node.								
	<input type="button" value="Add Class"/> <input type="button" value="Remove Class"/>								

<b>Suggested classes</b> <small>(suggests classes with same first 4 letters of course code as selected classes, put in random order, select 7 max)</small> 
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Home	Classes	Shopping Cart	Register	Log in	
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**Home**

<b>Find Classes</b> 	<b>Shopping Cart</b> 				
Home	Classes	Shopping Cart	Register	Log in	

**Log in**

Username	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="Log in"/>	

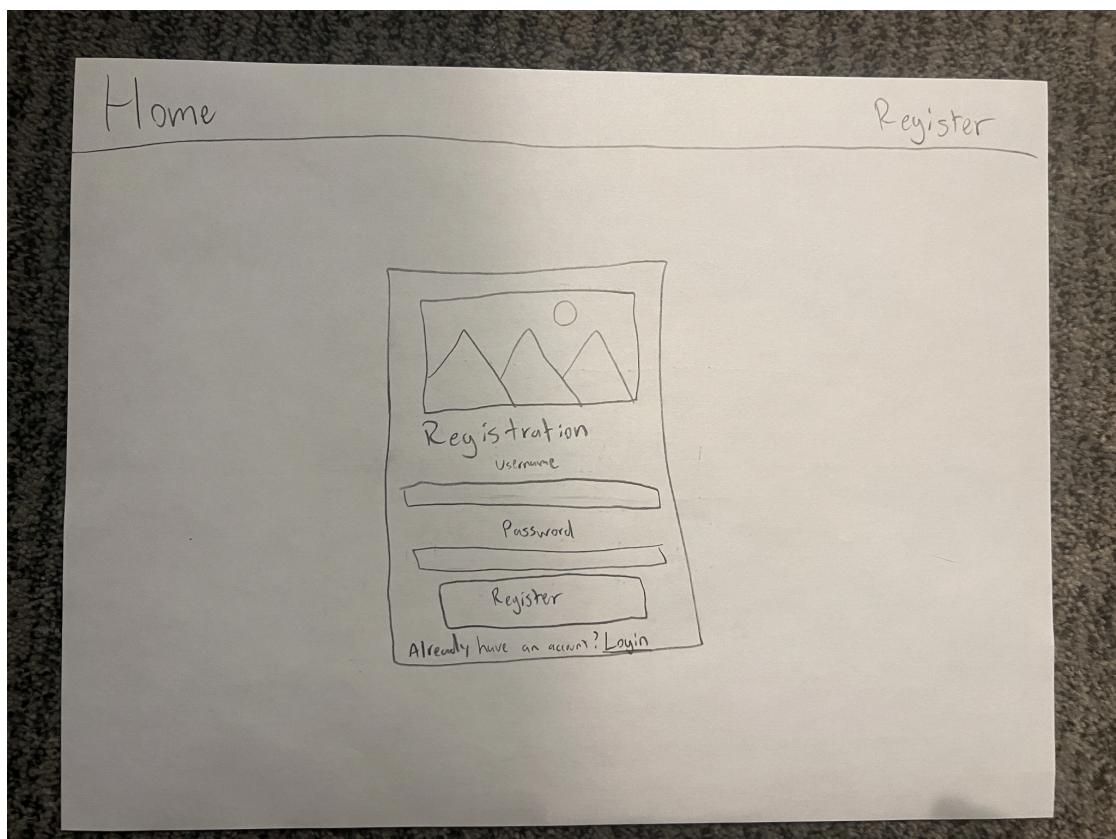
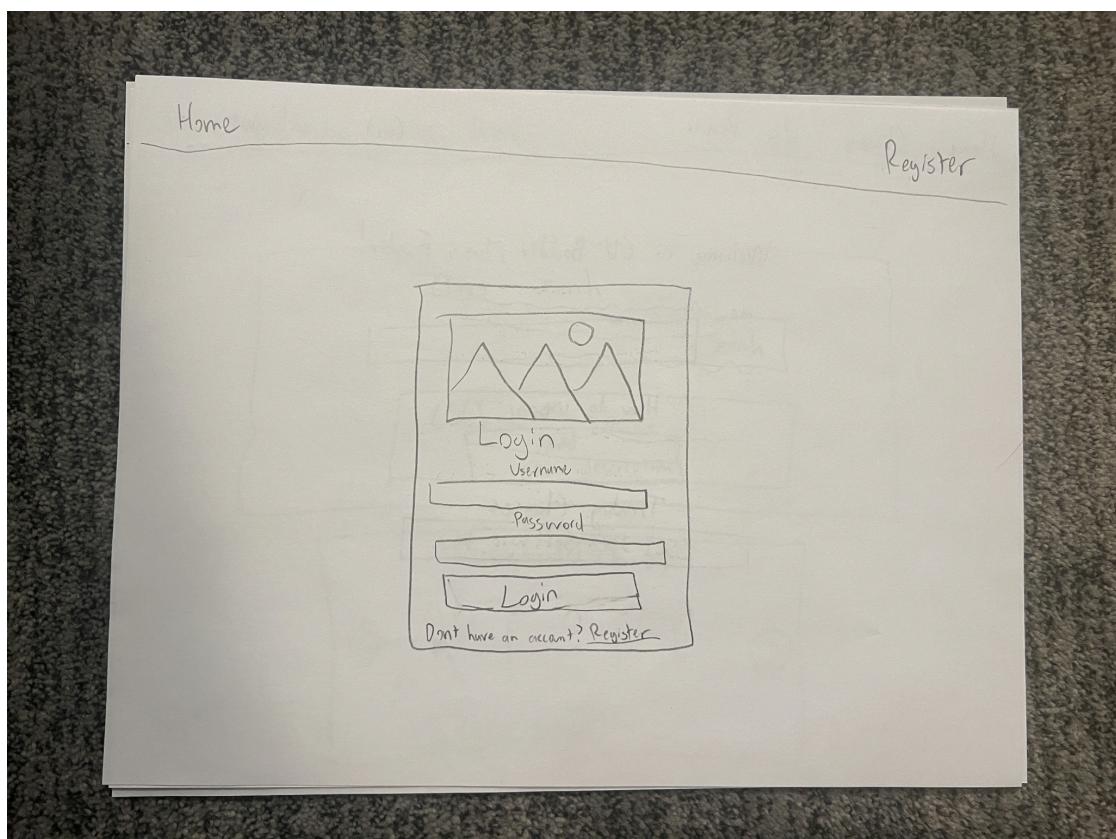
[Register](#)

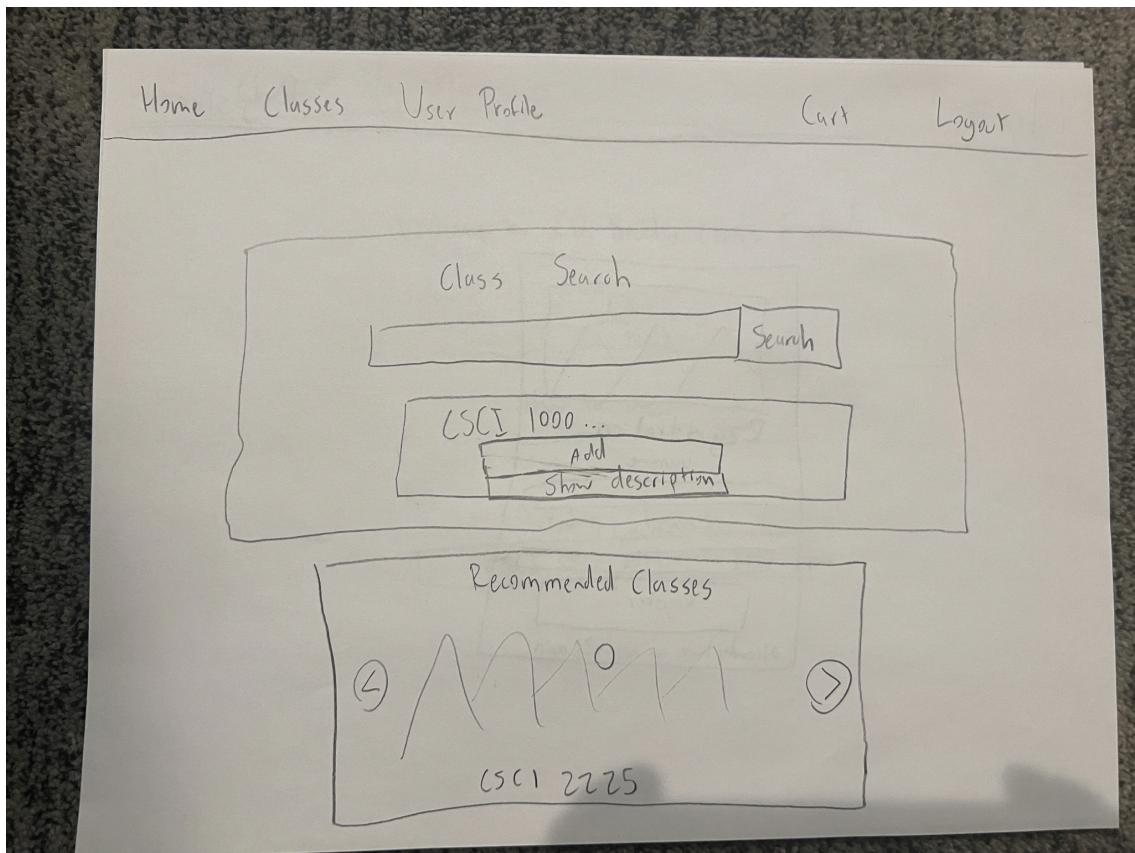
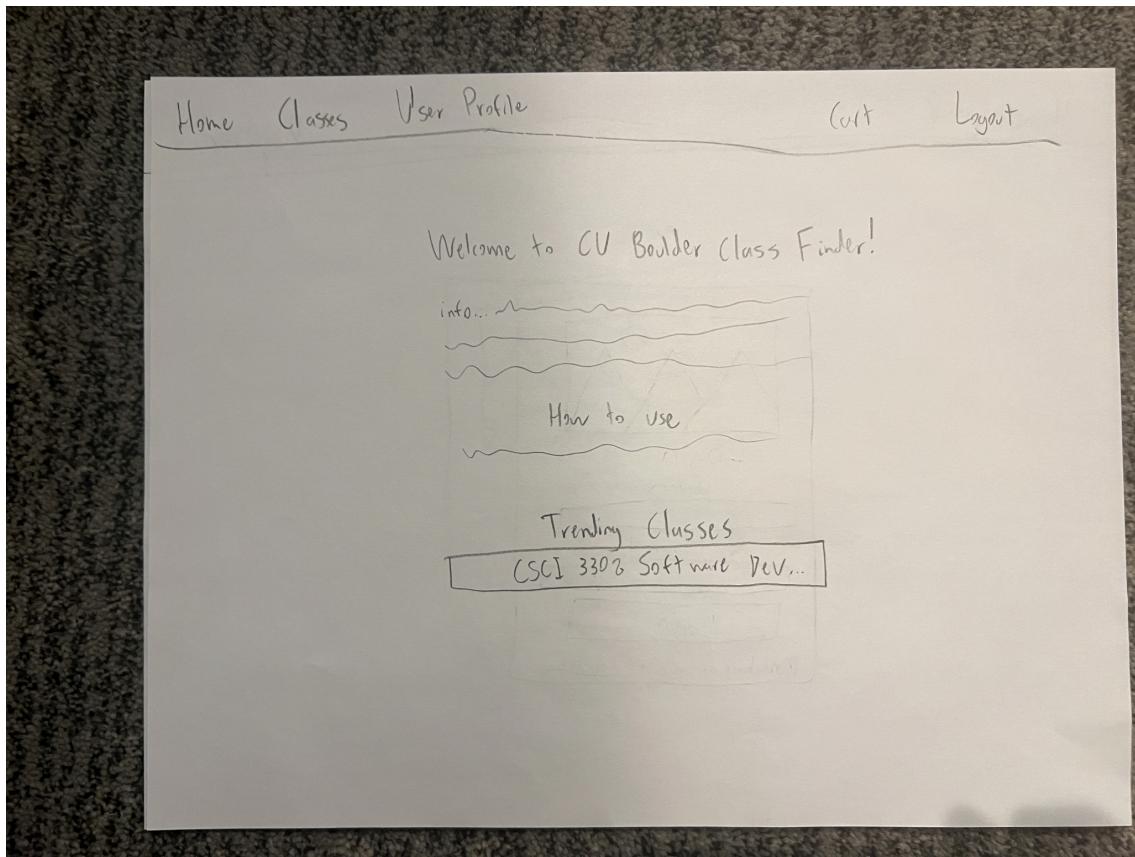
Home	Classes	Shopping Cart	Register	Log in	
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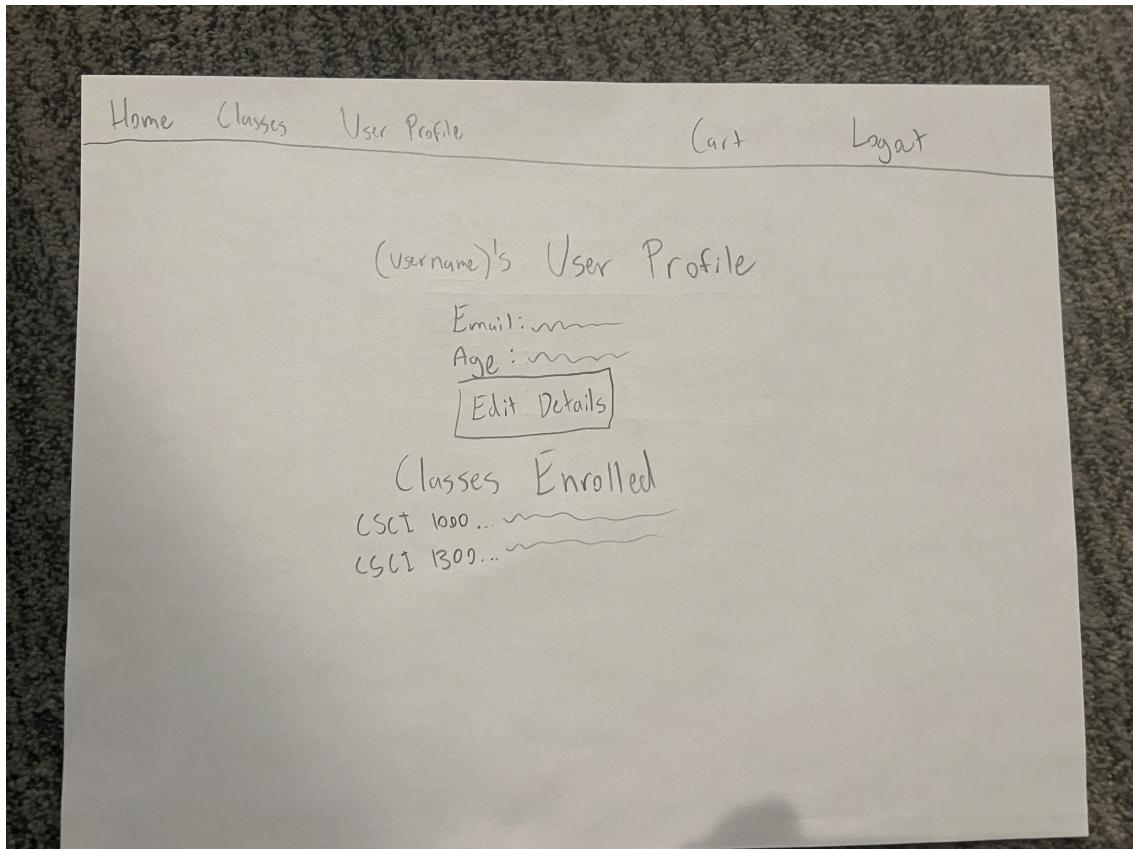
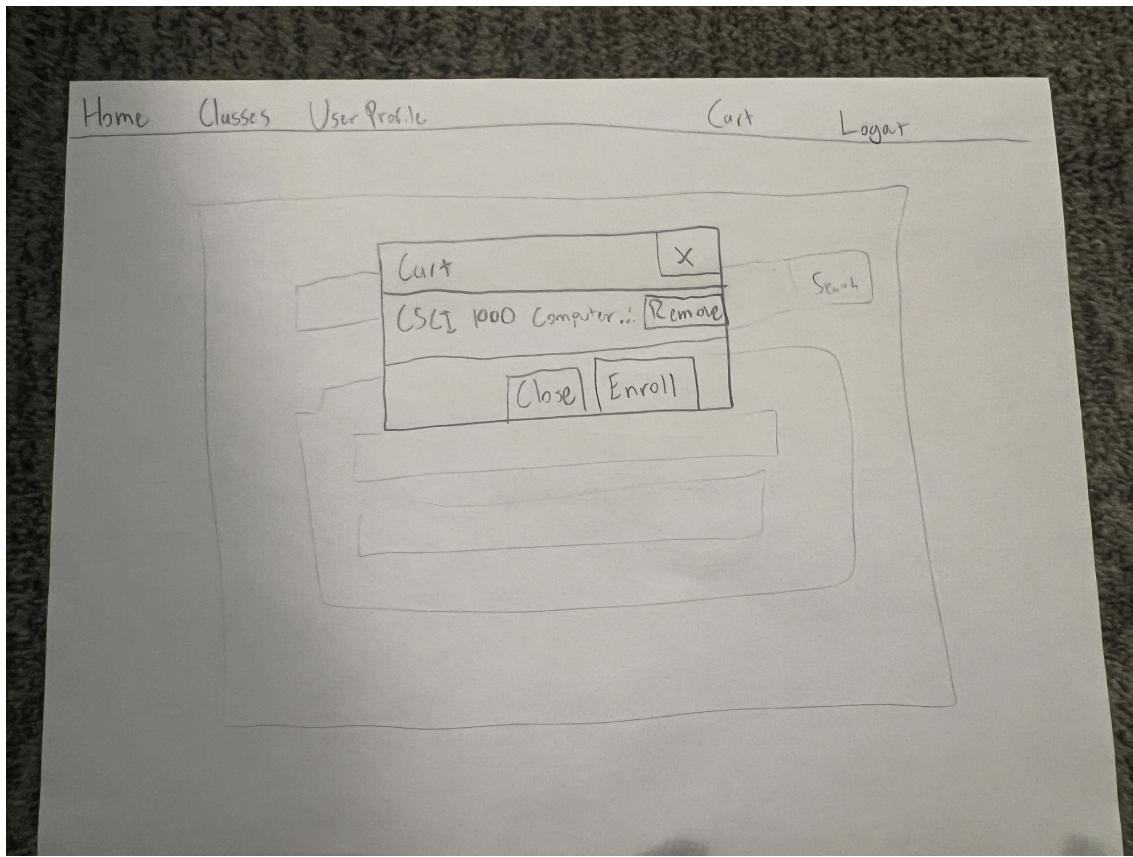
**Shopping Cart**

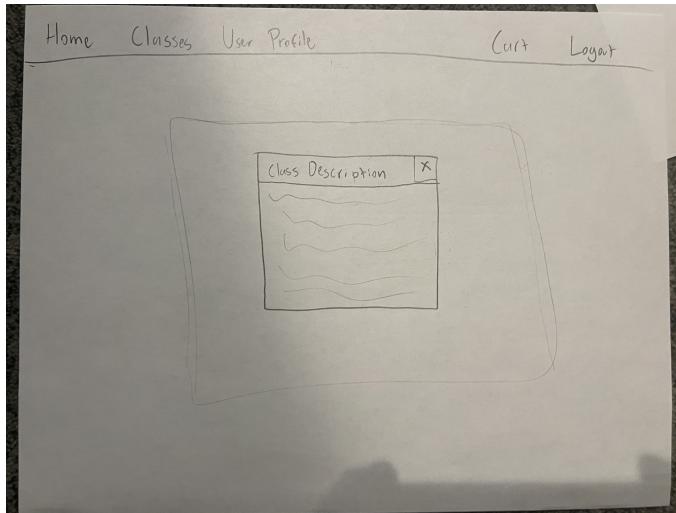
CSCI 2400 Computer Systems CSCI 3308 Software Development Methods and Tools	<input type="button" value="Remove Class"/> <input type="button" value="Remove Class"/>
<input type="button" value="Add More Classes"/>	

**Finished Wireframes:**









- **Test Results:**

All test results are crucial to ensure seamless functionality of the application and uninterrupted access for users to all its features. Regarding the /register functionality, it was imperative that users could register smoothly. Amy Bowers rigorously tested this by going through the registration process multiple times. Since the registration process is straightforward, minimal testing was required, primarily focusing on verifying whether registration with the same username was possible (an error surfaced during testing). Amy mainly concentrated on this aspect during her testing of the /register functionality. The behavior remained consistent, aligning with both the application requirements and the expected outcomes of the test cases.

However, there was a deviation from the User Acceptance Testing (UAT) plan when Amy attempted to register two users with identical usernames, causing an issue that required rectification. Consequently, we addressed this bug, ensuring that users cannot register with duplicate usernames.

Moving on to the class search endpoint and page, users should be able to navigate to the class page, input a class name, and retrieve the relevant classes. Amy tested this feature by searching for CSCI classes, which returned the expected results. Additionally, searching for classes not in the database yielded no matches, aligning with the UAT plan. No adjustments were necessary as all search outcomes matched expectations.

In accordance with the UAT plan's Viewing Course Details section, users should be able to click on a course and view its description. Amy verified this feature post-update, wherein course details were accessed through a button. Amy encountered no issues during testing, and all course details were displayed correctly, adhering to the UAT results. While some modifications were made to the classes page, they were minor and not directly related to the test results.

Finally, the class shopping cart, the last segment of our UAT plans, required users to add items to the cart, view it in the modal, and remove items successfully. Amy meticulously followed these steps, adding and removing classes as expected. Amy's actions were successful, and no discrepancies were detected in these functions.

- **Application Deployment:**

<http://recitation-13-team-04.eastus.cloudapp.azure.com:3000/>

Exceeded allotted time, see README.md for further details.

<http://r-013-04.eastus.cloudapp.azure.com:3000/>

Established a new deployment link for the project report (not included in README.md; solely for the Project Report to demonstrate deployment).

The app was put online using Microsoft Azure. First, I set up all the necessary stuff in Azure, like virtual machines, databases, and networking bits. Then, I tweaked the settings for the deployment, making sure everything would work smoothly with Azure's services. With tools like Azure DevOps or similar ones, I made a pipeline so that whenever there's a new version, it gets integrated, tested, and deployed automatically. I also made sure the app can handle more users without crashing by setting up monitoring and scaling in Azure, which means it can adjust itself based on how many people are using it.

To actually use the app, all you need to do is go to the URL provided in your web browser. Depending on how the app is set up for logging in, you might have to sign in with your own information. And, of course, to keep things secure, it's important to set up the right permissions in Azure so only the right people can access the app and its stuff.