Group coding (paired session)
Use external API for coding problems/test cases
Starting code
Different languages
Reward system
Tracking how many done
Badges earned
Add a dashboard
Timed coding competitions

1.Team Number: 1
2.Team Name: Coding Baddies
3.Team Members:

Jack Toenjes Github: Ponippp Email: jato9234@colorado.edu
Calvin Wagner, Github: CalvinWagner05, email: cawa9142@colorado.edu
Wyatt Lyda, email: wyly3647@colorado.edu, github: wyatt-lyda
Christina Fernandez, Github: chfe8281 email: chfe8281@colorado.edu
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Kaitlyn Brown, Github: TenorPanther, email: kabr3253@colorado.edu

4. Application Name: Coding Buddy

5. Description:

We want to create a website where users can log on to study CS topics in various coding languages with a friend or alone. We think it would be interesting to build an application that combines the ideas of the structures of Quizlet and Leetcode applications.

There will be coding problems with starter code, problem description, and test cases. The user can choose to code in different languages. For each problem they get correct, they earn points. For these coding problems, users are able to work together in pairs to solve the problem. They also have the option to time themselves by clicking a button up top to set a timer. Then they'll show up on the leaderboard in the homepage or profile.

There will be multiple choice quizzes for cs concepts. Then depending on the users' answers and score they get personalized flashcards to review what they got wrong.
There will be flashcards for cs definitions and syntax to practice.
There will also be the ability for users to make their own flashcards.
If working alone on code isn't enough, users can also practice coding with other people as our website gives an easy to use group coding environment that updates in real time.
Our website covers different CS topics and allows users to practice coding while also learning CS conceptually. It ideally has questions for different coding languages. You can also challenge

what you have learned through coding challenges that all users can compete in and receive awards for participating in.

6. The specific audience we are targeting is aspiring computer science students and software developers. The age group would primarily be high school and college students. The project encourages the audience to study and understand core principles of software engineering through flashcards and hands-on problems in an easy and fun way.

7. For students who are struggling to learn how to code. Coding Buddy is an online tool that makes learning to code SO FUN. Unlike Quizlet or LeetCode, our product is collaborative.

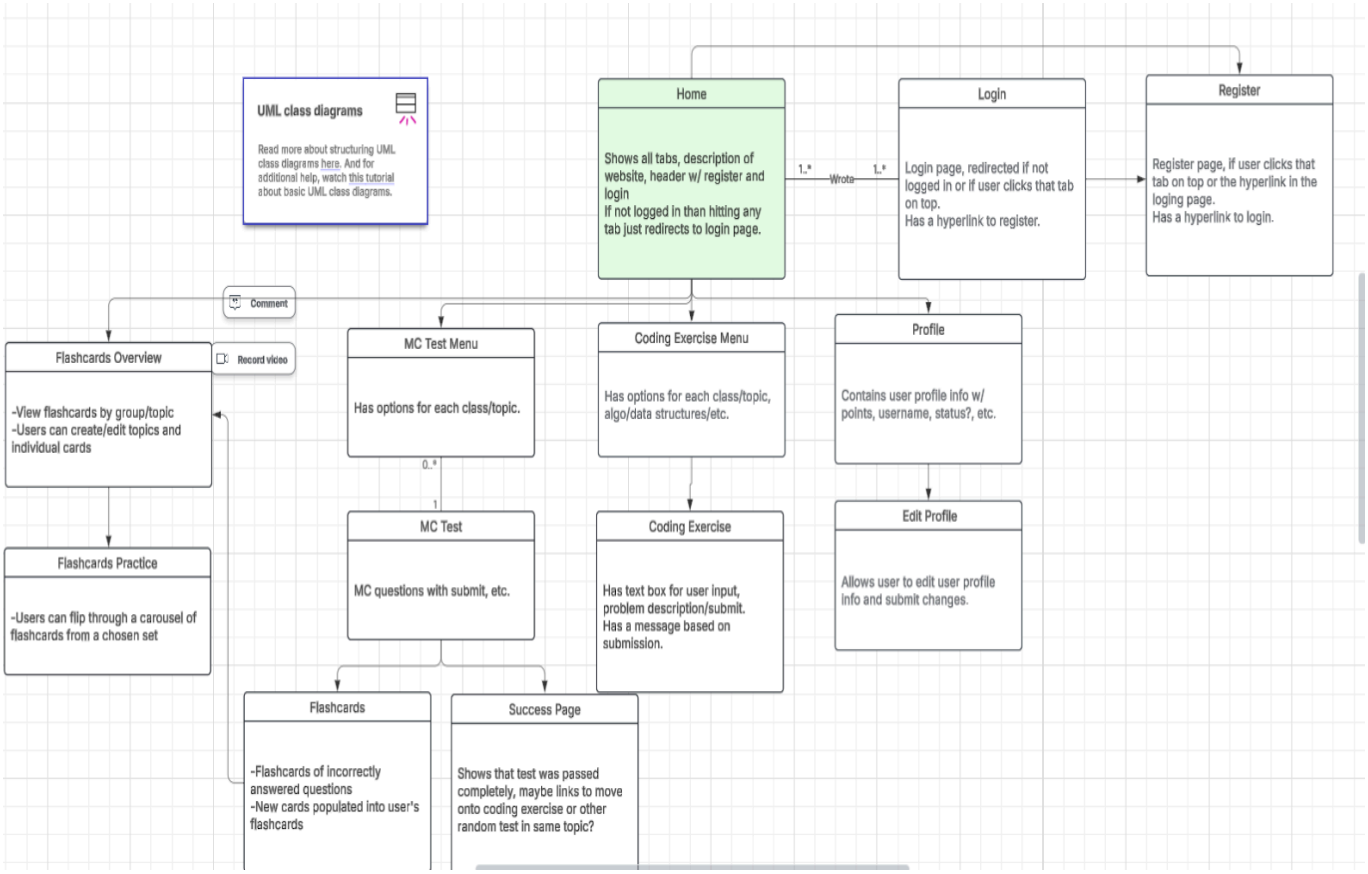
8. Repo: https://github.com/chfe8281/Coding-Buddy

9. We can use Scrum meetings and Kanban boards. We have a board made in our Github repo.

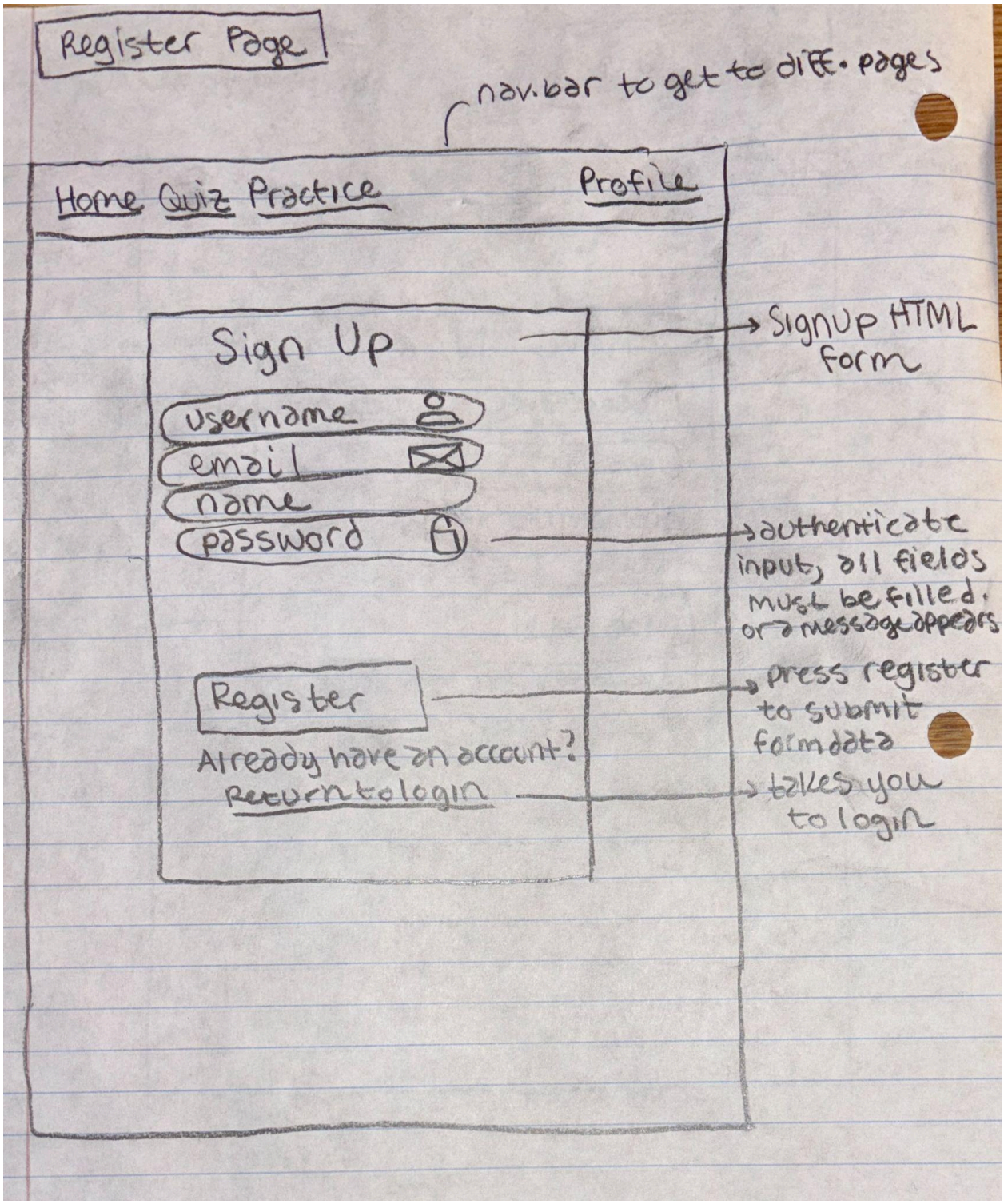
10. We are using a Discord group chat for team communication.

11. Group meeting Mondays at 2:00pm, Meeting with TA Mondays at 3:00pm

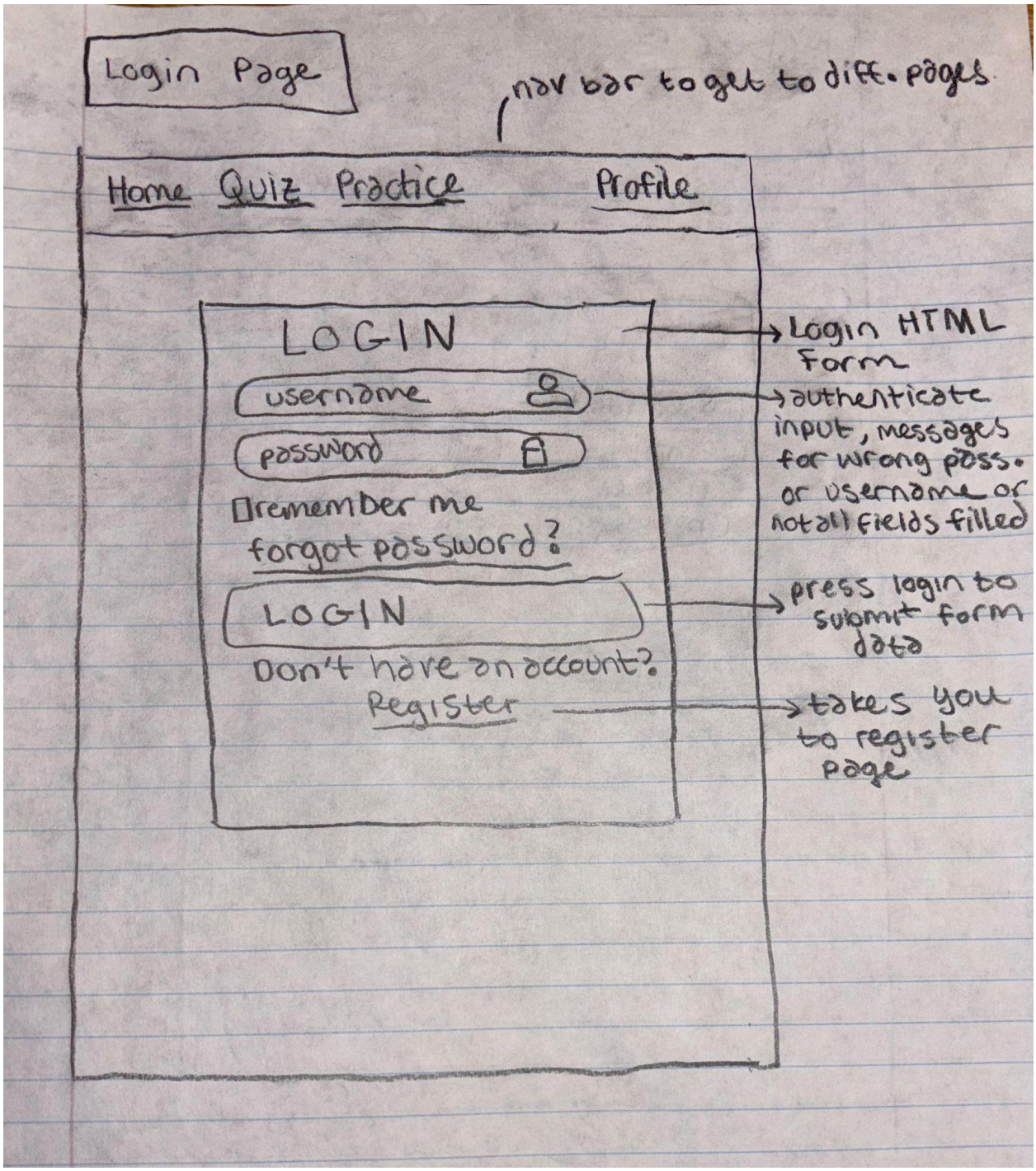
12. Use Case Diagram



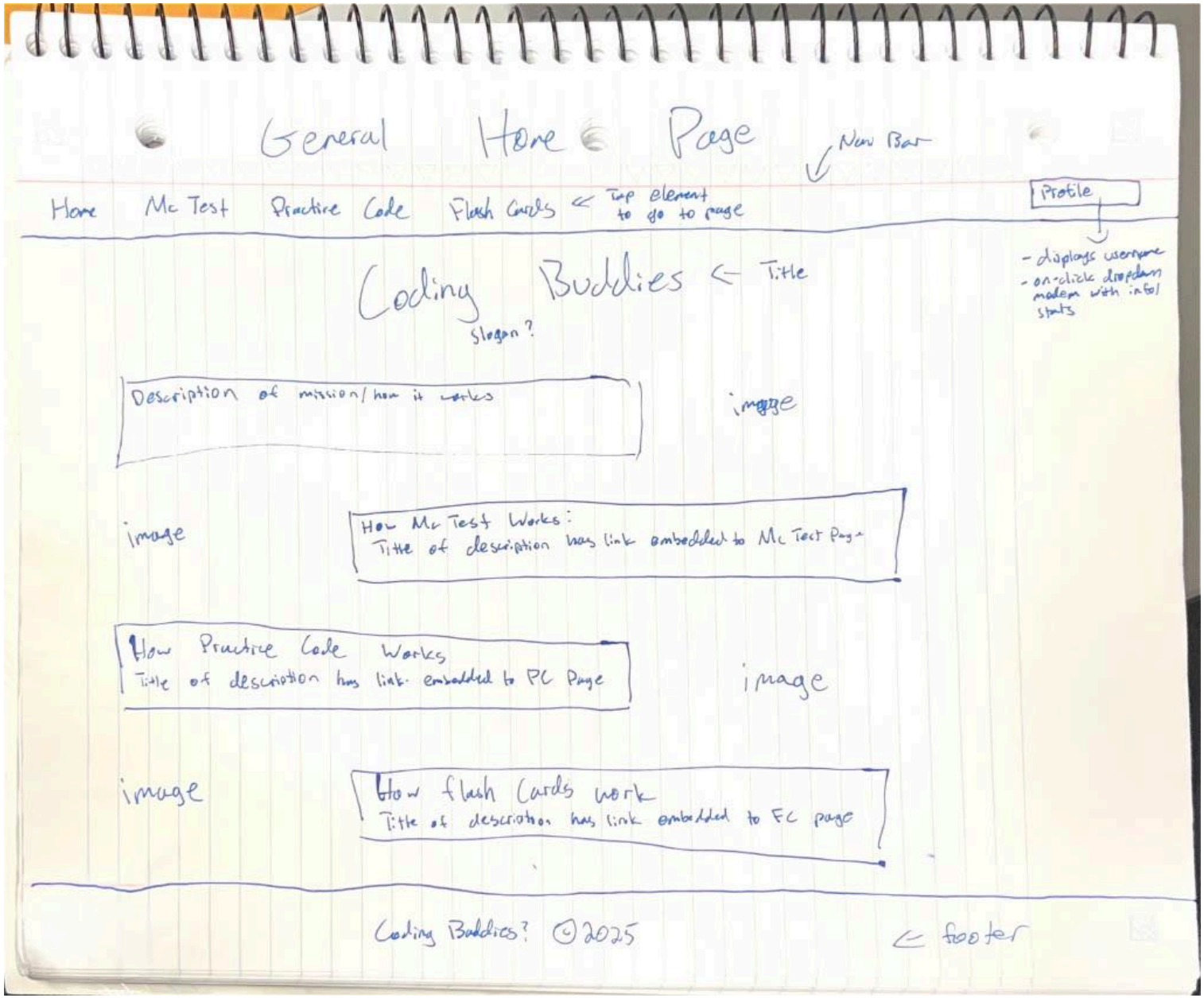
13. Wireframes:
Register



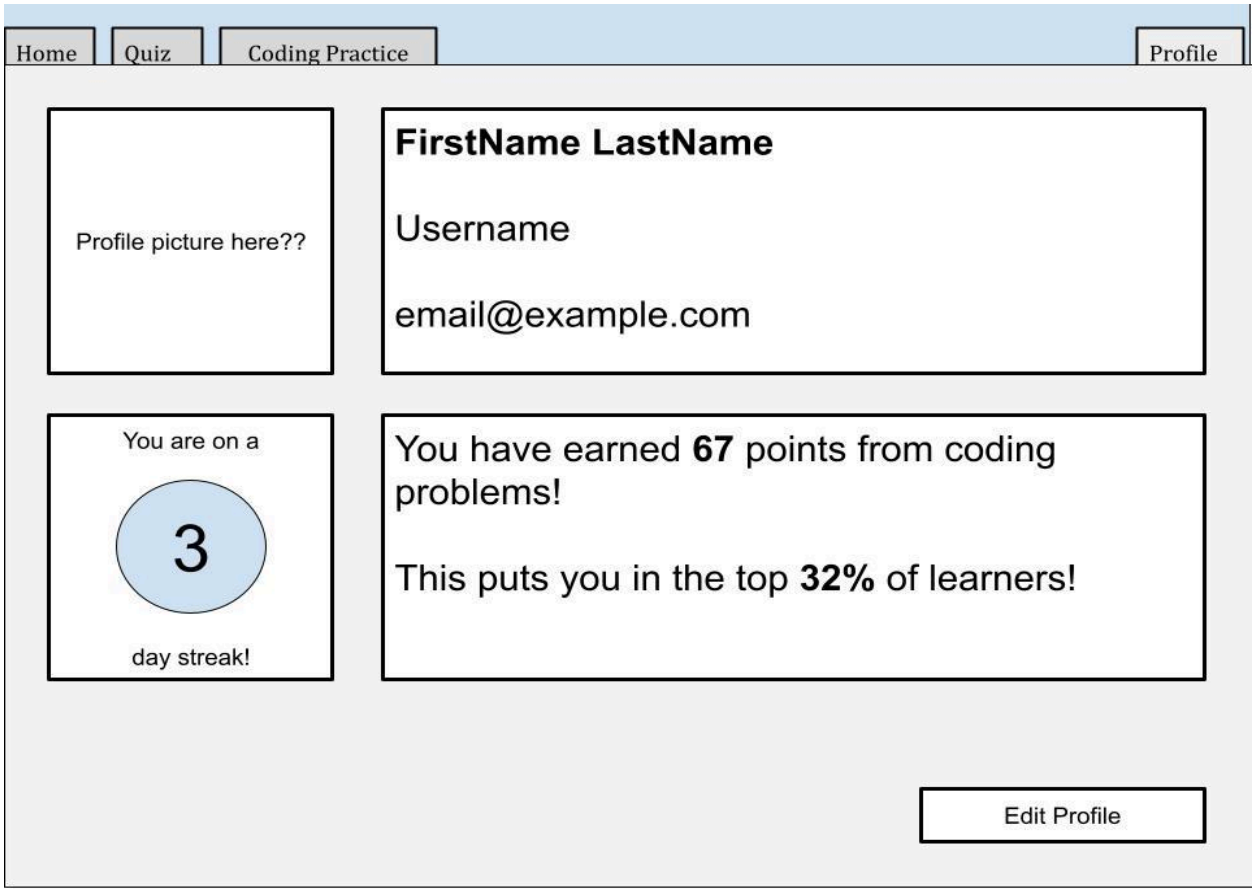
Login:


Login Page
nav bar to get to diff. pages
Home Quiz Practice Profile
LOGIN
username
password
remember me
forgot password?
LOGIN
Don't have an account?
Register
Login HTML form
authenticate input, messages for wrong pass. or username or not all fields filled
press login to submit form data
takes you to register page

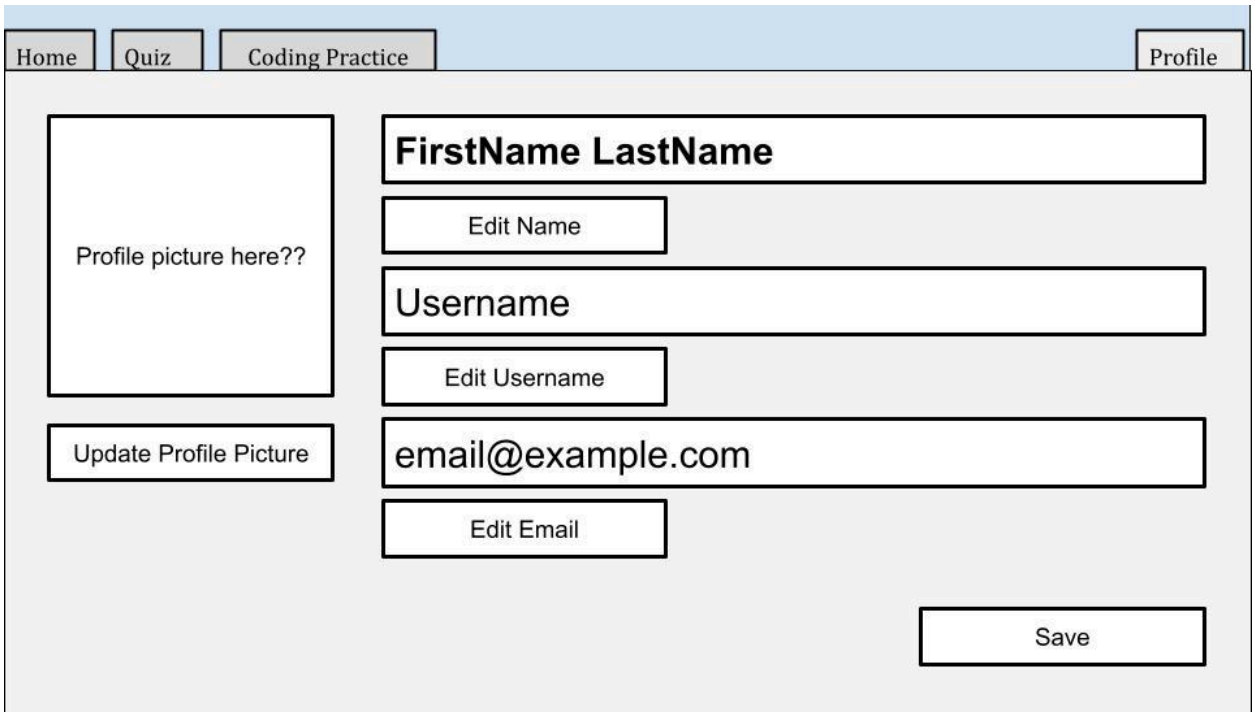
Home Page:


General Home Page
Nav Bar
Home
Mc Test
Practice Code
Flash Cards
<- Tap element to go to page
Profile
- displays username
- on-click dropdown modern with info/stats
Coding Buddies <- Title
Slogan?
Description of mission/how it works
image
image
How Mc Test Works:
Title of description has link embedded to Mc Test Page
How Practice Code Works
Title of description has link embedded to PC Page
image
image
How flash cards work
Title of description has link embedded to FC page
Coding Buddies? © 2025
<- footer

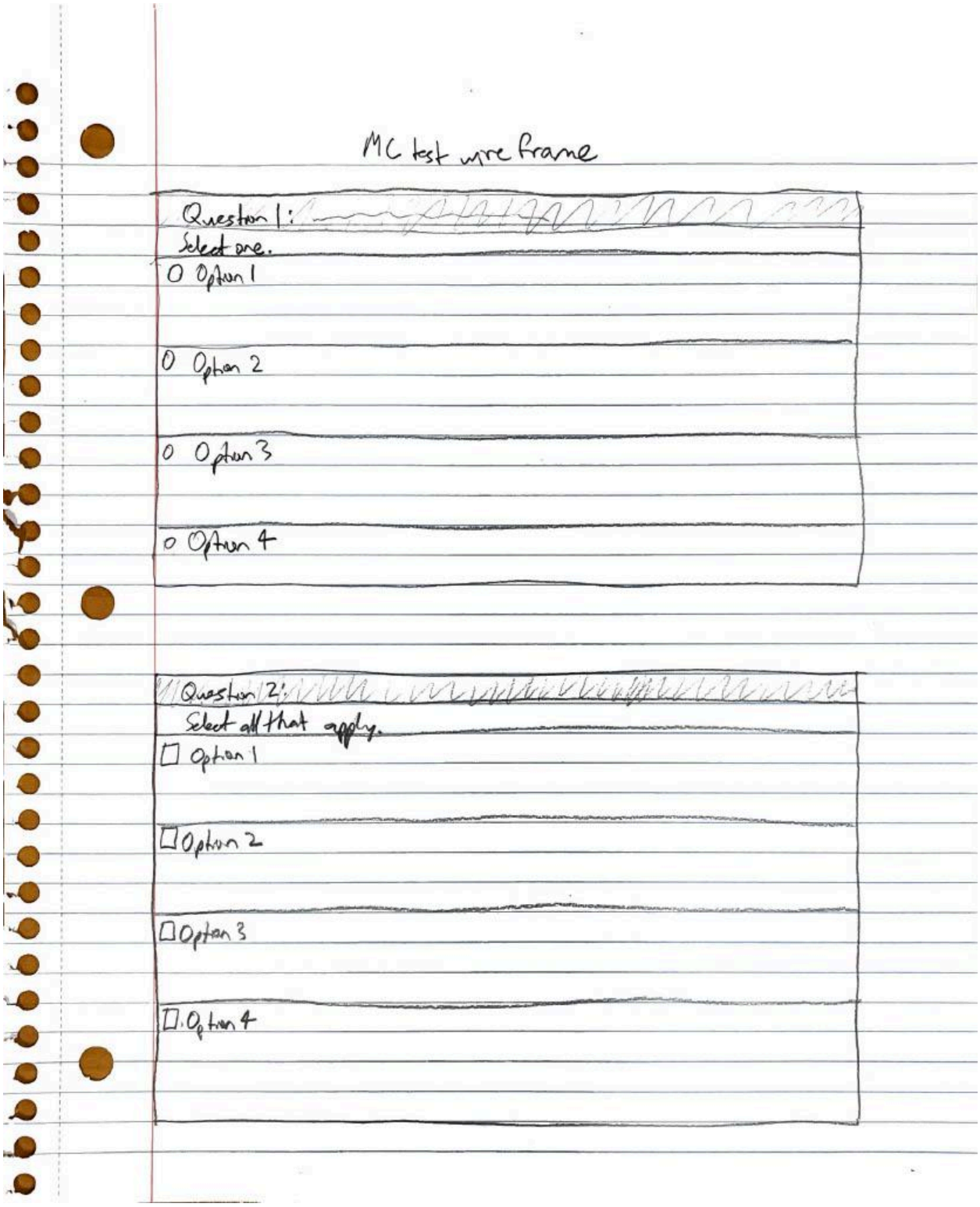
Profile:



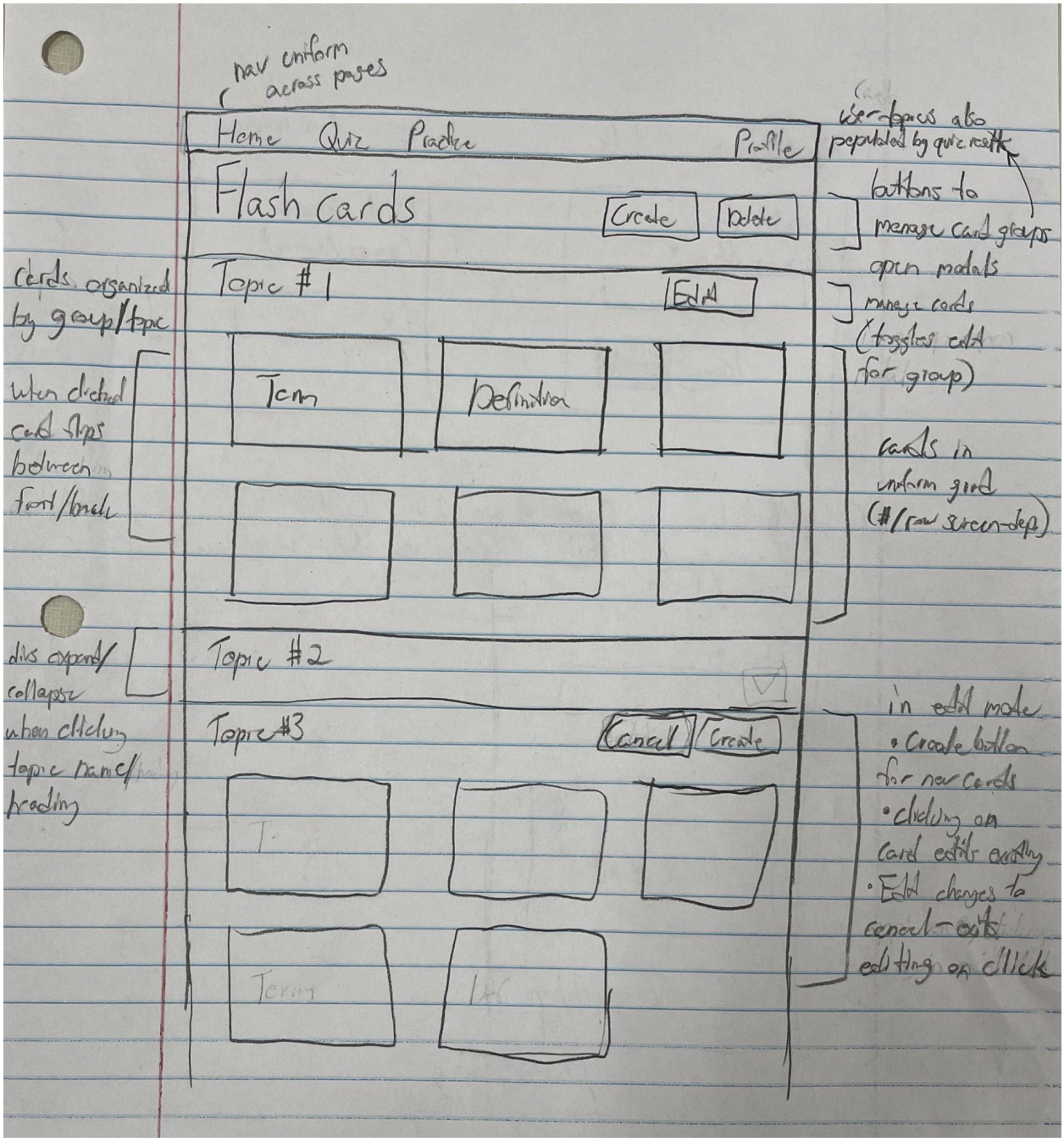
Edit Profile:



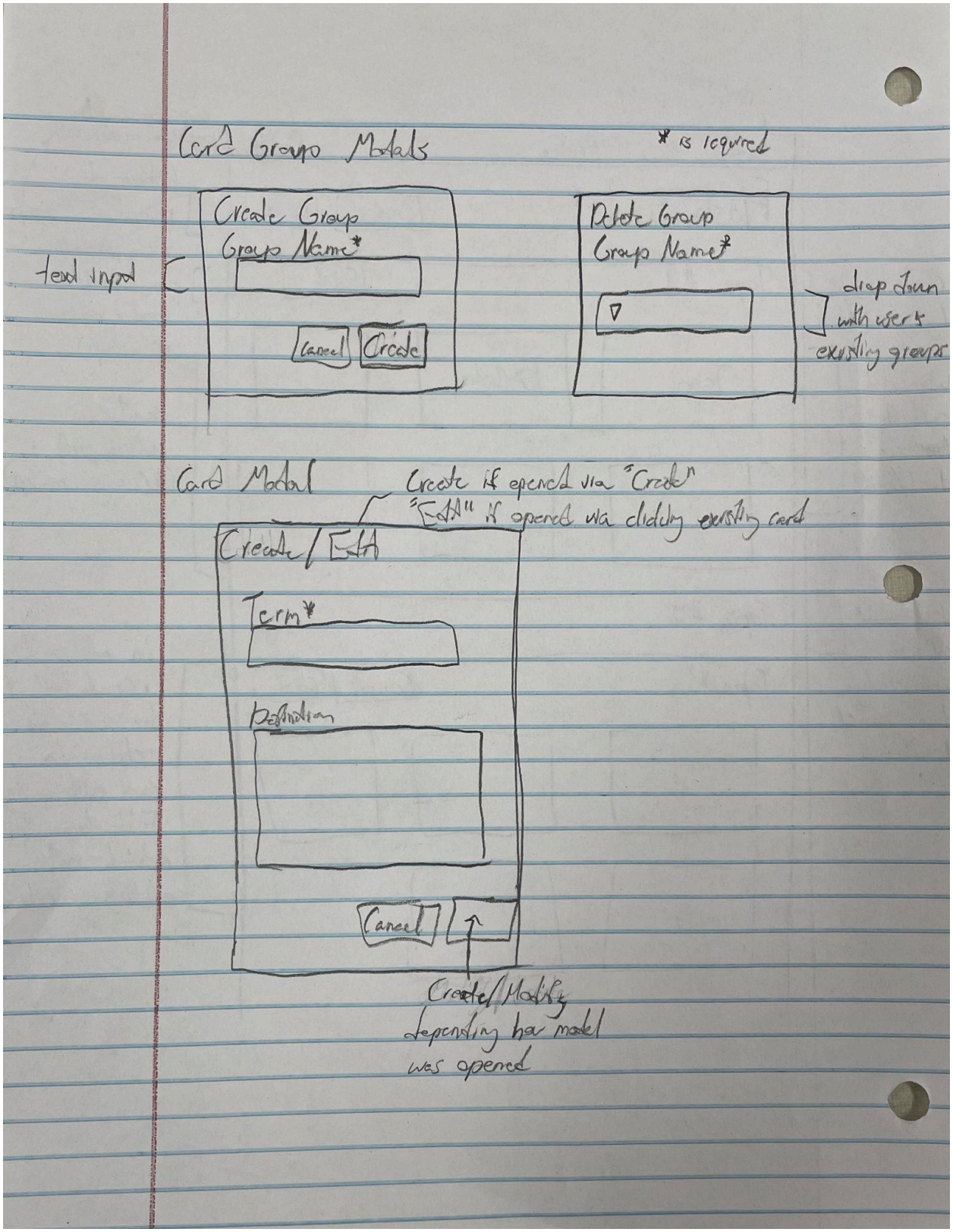
MC Test:


MC test wireframe
Question 1:
Select one.
O Option 1
O Option 2
O Option 3
O Option 4
Question 2:
Select all that apply.
☐ Option 1
☐ Option 2
☐ Option 3
☐ Option 4

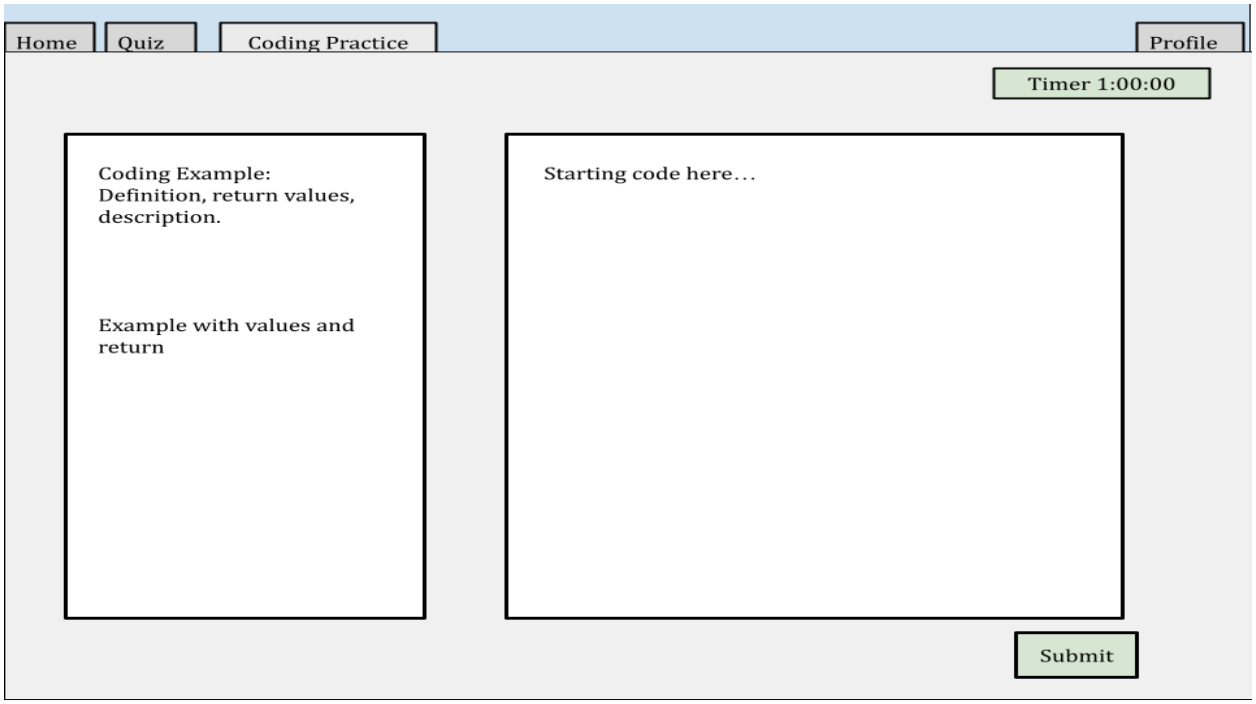
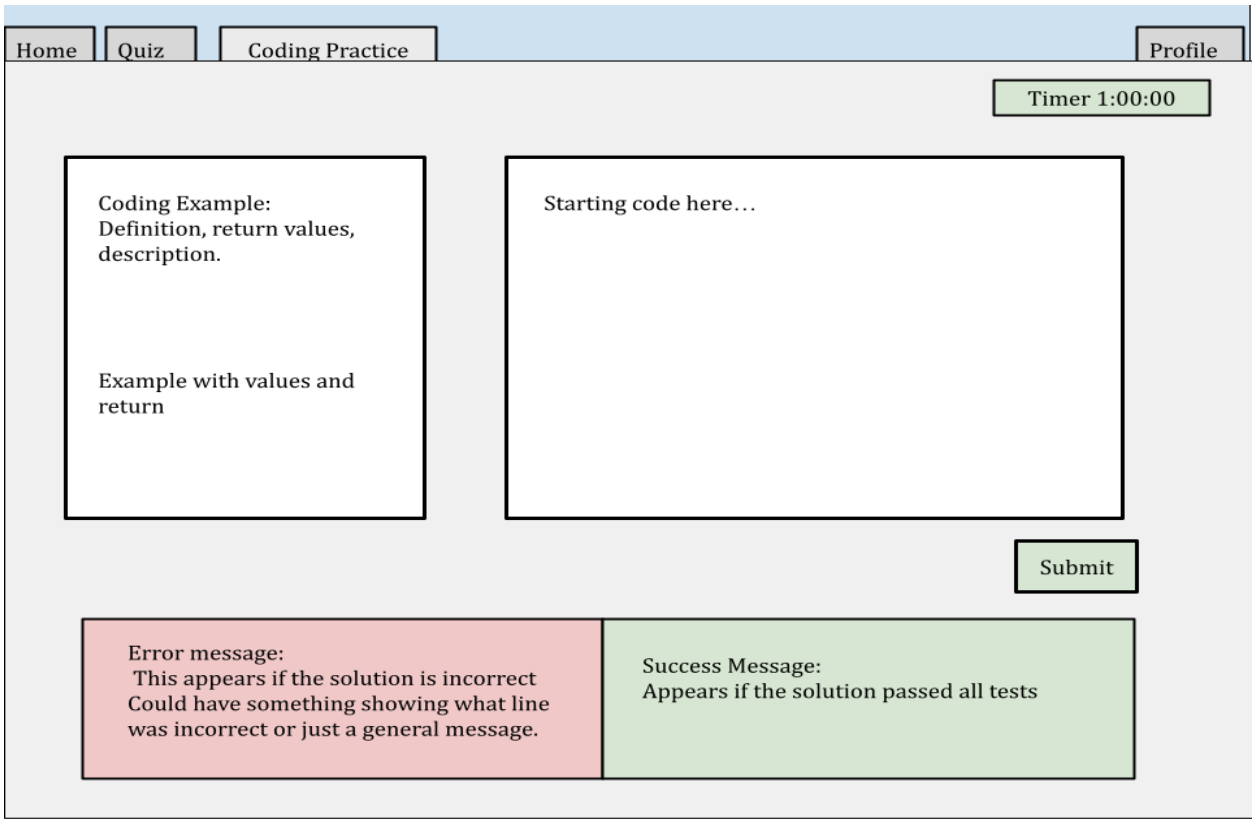
Flashcards:


nav uniform across pages
Home
Quiz
Practice
Profile
user-topics also populated by quiz results
Flash cards
Create
Delete
buttons to manage card groups
Topic #1
Edit
open modals manage cards (toggles edit for group)
cards organized by group/topic
Term
Definition
when clicked card flips between front/back
cards in uniform grid (#/row screen-dep)
Topic #2
dbl expand/ collapse when clicking topic name/ heading
Topic #3
Cancel
Create
in edit mode
• Create button for new cards
• clicking on card edits existing
• Edit changes to cancel - exits editing on click
Term

Flashcards Modal:



Coding Exercise:



Coding Exercise w/ message: