

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

Flashcard web application

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Introduction to the project

Purpose: To create a web application that helps students study with flashcards created by them or their teachers

Features:

- 1) Be able to create, edit, and delete a study set of flashcards
- 2) Be able to register the teacher(s) and their students using the flashcards via their school information only (i.e. School Email)
- 3) Be able to create “classrooms” with all registered students from each section of the teacher’s classes
- 4) Be able to set flashcards aside that they get wrong and study those from the flashcard set
- 5) Be able to have 2 students from the class interact and study with each other

Tools and Technologies used: HTML, CSS, JS, PHP, Heroku Postgres



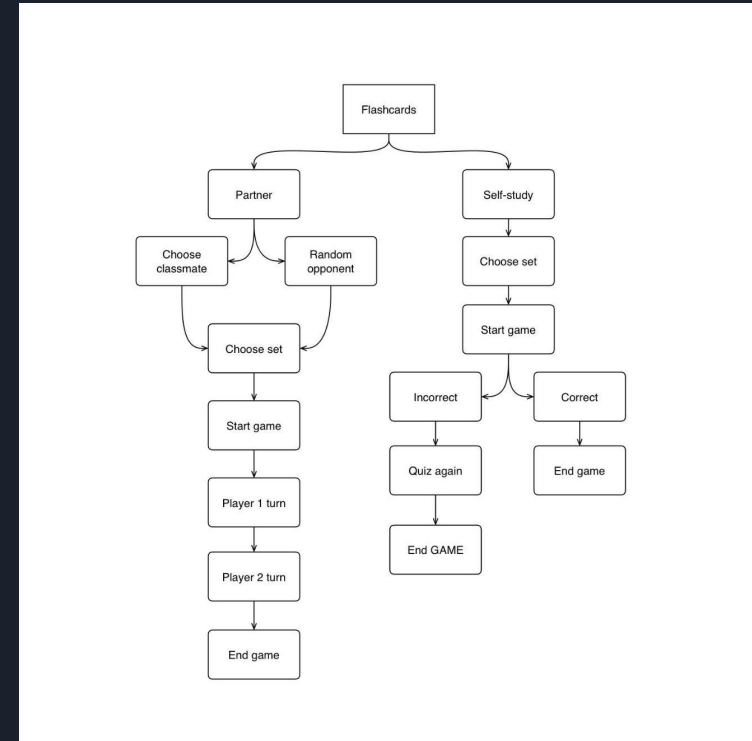
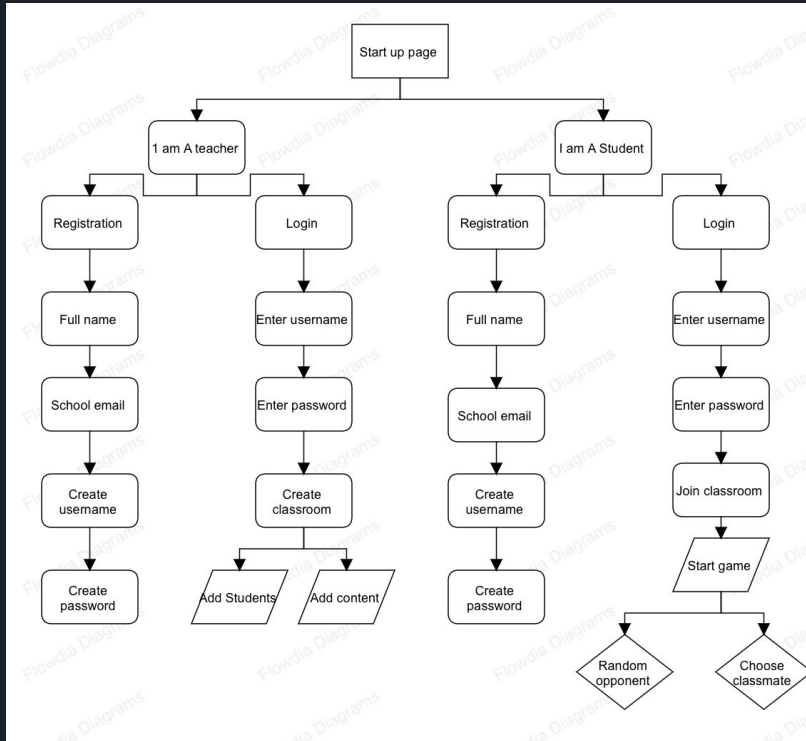
Team Members' Roles and Responsibilities

Team Point of Contact with Dr.Nelson and CS department : Tedy Barber

Team Point of Contact with the Client : Ishi Agrawal

Development, Report Writing, Poster Creation, Presenting, etc :
Split evenly between all 3 team members

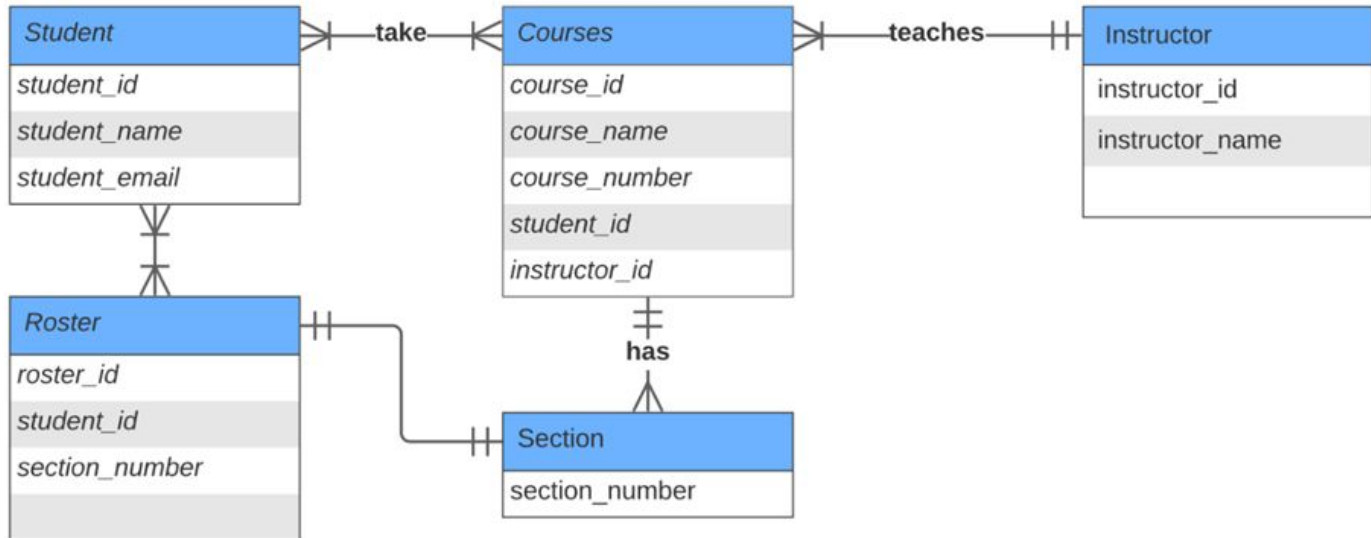
Flow Chart of Application



Entity Relationship Diagram (ERD) of Application Database

ER Diagram - CSC 481

Tedy Barber, Ishi Agrawal, and Dominique Bornilla | October 20, 2021





Working with the Client

Project Client: Timothy Koontz

Role: Science Teacher at Timberline High School

Email: tkoontz@nthurston.k12.wa.us

Incorporating Client's wishes into project requirements:

Since quizlet does not have the ability to set aside flashcards from a study set to study from, client offered the idea to create the feature that allows students to set flashcards aside that they get wrong and study those from the set



Potential Technical and Qualitative Restraints

A restraint is the technical requirement of the features wanting to be implemented. This will require in depth use of Javascript and PHP that we have not ever worked with.

In case features 4 or 5 (below) prove too difficult to implement, the most feasible will be implemented

- Be able to set flashcards aside that they get wrong and study those from the flashcard set
- Be able to have 2 students from the class interact and study with each other



Other Potential Risks and Solutions

Reducing Security Risks :

We do not keep any student/teacher information besides their school issued email ID and the classes they are enrolled in. Personal emails will not be allowed. No information about a person's age, date of birth, social security, or linking of outside social media accounts will be involved.

PASSWORDS:

People will be encouraged to keep passwords that are not related to their financial or other sensitive accounts.

If someone wants to continue using this project, they can implement a feature to change teachers' passwords every 6 months for security

Schedule

Front End User Interface

Status	Not started
Objective	Create front end design and set up front end
Activity dates	<i>Planned:</i> December – January

Back End Database Setup

Status	Not started
Objective	Set up the database to match the requirements
Activity dates	<i>Planned:</i> January

Build Out Application

Status	Not started
Objective	Code the application logic
Activity dates	<i>Planned:</i> Mid-January - end of March

Budget



The only associated cost will be to host the database and application on a website so that the teacher(s) and students can access and use the site freely.

We plan to use Heroku hosting services, which have free options for hosting if using a student/hobby app and a heroku postgres data storage. Free hosting will be used first, and if needed, paid hosting will be used. This cost will be covered by the School of Engineering.



Next Steps



When this project is fully implemented, the hope is that the teacher incorporates this as a study tool, hw, or classroom assignment for the students to study with.



Thank You