

University of Colorado
Department of Computer Science
CSCI 3308
Milestone 1
Purple Cobras

Team Members

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1 Description

A homework/study buddy in the form of an online web service. This will enhance the ability of students to meet, collaborate, and study together. This platform will essentially operate as an online classifieds page, where users will be able to create an account, and be able to browse for other students on the site that are also looking for a homework/study buddy for the same classes and with the same time schedule.

This web app will give users a convenient, streamlined way to find study buddies, allowing students to quickly connect with others they may otherwise have never spoken to or met with a shared interest in partner-studying for a particular class. As soon as an option becomes more convenient, it becomes more usable overall; removing the hassle behind finding study partners would make the option of partner-studying itself more attractive, allowing users to more frequently utilize this particular study strategy.

2 Vision Statement

To bring students together in order to solve the problems of tomorrow.

3 Motivation

Students often find it helpful to study together, but finding partners can be difficult due to conflicting schedules and the detached nature of large lecture halls. Furthermore, a student's immediate circle of friends will likely only share one or two classes with each other. This web app would allow students to easily find study partners by logging in and simply selecting the class for which they currently want to study; it would turn partner-studying into a more convenient and immediately viable option.

4 Risks

The majority of the team is not familiar with many of the technologies we'll be using to build the web app. Due to different schedules, there is potential risk of figure out how to collaborate outside of group meeting time. Different knowledge on different topic might cause problem where extra time is needed to get familiar with the topic.

5 Risk Mitigation Plan

The largest source of risks is the amount of base knowledge that the team has on building an app. That being said, the best way to minimize this risk is to do research into the topics that will be relevant to our app. Some topics to research include integration between front end and middle layer, integration of middle layer and back end, and the ability of other team members being able to pivot to other roles in case of damaging contingency. All of these topics will have numerous resources on the internet that the team can utilize.

6 Version Control

Team Purple Cobras will be using Github to share repositories. The links to the repositories and a brief description of those repositories are below.

6.1 Code Repository

Link: <https://github.com/PurpleCobras3308/code>

Description: The code repository will contain all of the relevant code to the project. This will include scripts as well as any images or visual components needed in the code. Within the code repository, there will be a minimum of two separate branches at all times, one master, and one experimental. This will ensure that the good, working code in the master branch will not be corrupted by bad commits.

6.2 Meeting Log Repository

Link :<https://github.com/PurpleCobras3308/meeting>

Description: The meeting log repository will include notes on the scrum discussions as well as any other important discussions or progress.

6.3 Milestone Repository

Link: <https://github.com/PurpleCobras3308/milestone>

Description: The milestone repository will include all finalized PDFs for team milestones.

7 Development Method

Team Purple Cobras will use the agile methodology. The goal of agile development is to allow for the code to progress in a natural way based on the customer's wants and needs. In this case, the team will be both the developers and the customer. The team will have weekly scrum meetings where we will discuss what we have accomplished and what we plan to accomplish for the week.

8 Collaboration Tool

Team Purple Cobras will use GroupMe in order to communicate with one another. The team will be using overleaf in order to write and collaborate on documents.

9 Proposed Architecture

Team Purple Cobras will use HTML and Cascading Style Sheets (CSS) for front-end development, Structured Query Language (SQL) for the back-end database, and node.JS and JavaScript for middle-layer integration. The SQL database will store two sets of data. The usernames and passwords via a salted hash. The other set of data will be the classified postings that users search through to find their study/homework buddy.