Project Proposal

Team 7 - Study Sphere

Team name: Study Squad

Team members:
-   Vibha Joshi (Email: vijo7860@colorado.edu; GitHub: vijo7860)
-   Henry Van Cleave (email: heva2420@colorado.edu; github: heva2420)
-   Diego Castro (email: dica7660@colorado.edu; github: diego-A-castro)
-   Siraaj Sandhu (email: sisa8612@colorado.edu; GitHub: siraajsandhu)
-   Jun Kusano(email: juku2287@colorado.edu; github: juku2287)

App name: study sphere

App description:
Study Sphere will be a homework-help website where students can ask and answer questions regarding specific topics they are learning in school, or are generally interested in. Questions will be organized based on tags users add when they make a new post. Questions will generally be categorized according to course, and if a course does not exist then students are welcome to create a page for any course they are taking. Each individual question will have its own page, where users can create new answers and rate existing answers. If time allows, users can include "steps" in their answers so that anyone seeking the answer must be able to answer each hint before obtaining the final answer, in order to deter academic dishonesty. Each course will have its own page, and on each course page is a list of popular questions for that course, a search feature to find questions related to that course, an option to ask a new question in that course, and a live chat where students can carry out free form discussion on course content. Courses will be accessible through the home page, which will have a search feature for courses and a list of popular courses based on user activity. Users can additionally add courses to their profile for easy access. Users can take tests to become verified in a course, making their responses prioritized. Images can be embedded in questions and users can link helpful videos that answer a particular question. Users can bookmark questions and revisit them later on by viewing their profile. For convenience, a guest mode will be implemented so that users need not be logged in to view course and question content, though if they wish to interact with any features that require knowledge of the user's identity, such as asking, answering, or bookmarking questions, they will be directed to either register an account or log in.

Vision statement: For students who are struggling with their classes, the Study Sphere is a homework-help website that builds a community of students taking similar courses and can help each other with questions. Unlike Chegg, our product ensures students don't just cheat on their homework but rather develop a deeper understanding of specific topics in school.

**Version control:** https://github.com/siraajsandhu/study_sphere.git

Development methodology: Rapid application development or AGILE are the development methodologies we are considering. We have weekly Scrum meetings with our TA to track the progress of our application and coordinate future work.

Communication plan: Discord & iMessage

Meeting plan:
- Weekly Zoom meeting with TA: Mondays 5:15 - 5:45
- Team meetings (in-person):
    - Monday after TA meeting
    - Wednesday at 4

Use case diagram
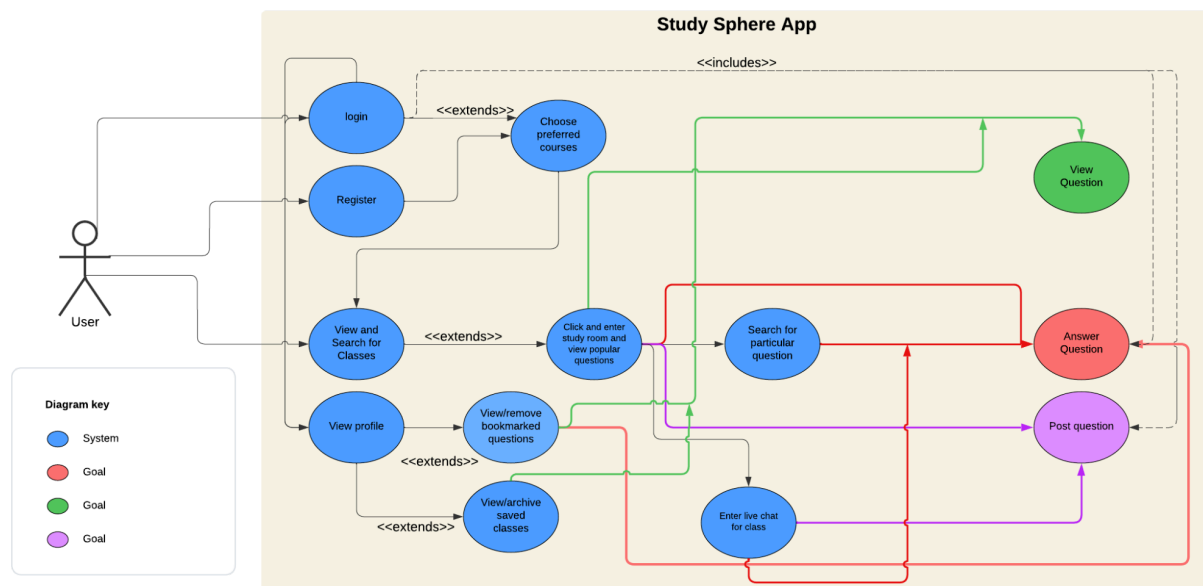
https://lucid.app/lucidchart/f1653bdd-174b-447f-a029-019296afceac/edit?viewport_loc=-749%2C-300%2C3637%2C1822%2C.Q4MUjXso07N&invitationId=inv_0da63606-3838-468e-8d86-ae4637fc80f0
- Key Features:
    - Colors:
        - Purple as accent
        - Dark theme
    - All pages have nav bar:
        - Drop down with each page
    - Login page
        - Set session variable once user logs in
        - Redirect to home once logged in
        - Link to register page
    - Registration page
        - Pick classes you're interested in, or skip

- Redirect to home
- Home page
    - Can view either as guest or user
    - Search bar to look for classes
    - Cards for popular classes underneath the search bar
    - View popular classes, popular questions
- Class page
    - Button to ask a new question
    - Search bar with table of results of questions
    - View popular questions, unanswered questions pertaining to specific class
    - Live chat for discussion with other students taking class
        - Plan A: icon in corner, can expand when clicked on to show chat
        - Plan B: redirect to separate page
        - If you're not logged in, you should log in
- Question submission page
    - Form to submit a question
        - Be able to upload images, w/image dropbox
    - Add tags
- Question page
    - Origins question at top of page
    - Option to bookmark question to profile
        - If you're not logged in, you should log in
    - Button/textbox to create answer for question, may include image/video in dropbox
    - Answers ranked below
        - like/dislike button for each question
    - Maybe: link to user profile from each answer/question
    - Maybe: comments on answers/questions
    - Maybe: respond to questions with video
    - Maybe: steps/hints for answering questions
- Profile page
    - Display username in corner/top of page
    - Search bar to look thru bookmarks
    - View bookmarks
        - Option to unbookmark them
    - Redirects to login if not logged in
    - View classes
        - Option to archive classes
    - Change user/password
    - Maybe: forgot password
- Answer questions
- Verified users - review answers which reflect on profile
- classes/study groups for academic classes or courses

Wireframes

login page

☰ Study Sphere

Login

username:

[   ]

password:

[   ]

register an account   [Login]

Register page:

☰ Study Sphere

Register

username:

[   ]

password:

[   ]

Confirm Password:

[   ]

[Register]

After registration, choose classes for profile

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≡ Study Sphere

Add classes:

Search for class...
| 1300 |
| 2270 |
| 2400 |

Chosen classes:
| 3308 ⊖ |

| Submit |

Home Page →

≡ Study Sphere   username/login

Search for classes...   GO
| 1300 |
| 2270 |

Popular Classes

| 1300 | | 2270 |
| image | | image |

| 2400 | | 3308 |
| image | | image |

Class

| ☰ | Study Sphere | CSC11500 | user /login |

Search for question ... [GO]
. . .
. . .   Post New
. . .   Question

Popular Questions
?   . . .
?   . . .
?   . . .
?   . . .

(Chat)

Chat page

| ☰ | StudySpher | CSC11500 |

Chat

User1	. . .
User2	. . .
User1	. . .
User7	. . .
User2	. . .
User1	. . .

| Send message... | SEND |

New Question Page

StudySphere [GSE1300]   user/login

Write your question...

Upload images:

images:

image 1 ⊖

Submit

Question Page

☰ Study Skills | CSC11300 | User / login

☑ ☒ Question: bookmark ⚑

<question content>

| <image1.png | | image2.png |

New answer

| Write your answer here... |

| Upload images |

Images:

| Answer.png ⊖ | | Post |

_____

☑ ☒ Answers

<answer content>

| Image.png |

☑ ☒ <answer 2 content>

| Image 2.png |

Profile Page

☰		Logout

User Name

My Bookmarks

Search through bookmarks		
Question 1	...	Remove
Question 2	...	Remove
Question 3	...	Remove
Question 4	...	Remove
Question 5	...	Remove

My Classes

1300 ⊖	2400 ⊖

3308 ⊖

Change username/password