Team Name: Midsummer Night's Team

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Description: We are creating a website with the objective of helping CU Boulder CSCI students find peers for help with homework or projects on campus. Our aim is to bridge the gap between students who are all working on the same assignment but unwilling to reach out for help from others. Our website will allow users to seek out other students on campus who are working on the same classwork and looking for collaborators, partners, or group members.

By providing a resource to bring students together we hope to create a tool that will encourage collaboration and peer to peer learning. Students will each have an individual profile and be able to select their current location and what class they are working on upon visiting the website. They can then proceed to search for similar students or wait for someone to reach out to them. Once students have made a connection they can meet up in person and each have a new study partner. They can choose to leave their flags up to encourage a larger group to form or take them down if they want to work one on one.

At this point, the rest is in the users hands. We are taking the ideas of meet up sites and translating them into a student focused environment.

Vision Statement: Our vision is to increase and solidify collaboration between students experiencing difficulties with computer science related problems, helping them be more productive and successful at CU.

Motivation: We want to create this product because many students (in CSCI) have trouble asking for help when working on homework or projects. Our service will provide an easy solution in seeking help in order to improve learning and understanding through collaborative effort. It is clear that collaborative work is common in industry, and this website will help students not only learn more efficiently but also become accustomed to an industry standard.

Risks:

- Lack of experience in web development and libraries / frameworks we will be using to accomplish our website (react.js, node.js)
- Limited experience with JavaScript and SQL

Risk Mitigation Plan:

- We plan to put “Ace’s in their places” or more specifically delegate certain tasks based on previous knowledge and individual skills
- As a collective we plan to watch / read tutorials on react.js, node.js
- As problem areas develop we will delegate additional learning objectives to individuals or sub-groups to expand our abilities
- Our website is quite modular in design, so we will be able to subtract and/or add features to mitigate the risk of not finishing on time

Version Control: CSCI_3308Milestones, CSCI_3308MeetingLogs, CSCI_3308Project

Development Method: Agile. We plan to work modulely, completing portions of our project in sprints to allow for flexibility throughout the development process. Sprints will include: planning, designing, building, testing, and reviewing.

Collaboration Tool: GitHub, GroupMe, Texting, Google Docs

Proposed Architecture:

- Front End: HTML / CSS / Javascript / React.js
    - This will provide the user interface and what the user will actually see
    - We plan to create a client side rendered website to make for a more seamless user experience (small changes within a page will occur on the browser)
    - Front end data provided by user stored/used using SQL/PostgreSQL
- Back End: Javascript/Node.js
    - Node.js is a natural backend for React.js, this will allow us to create our server side and help in deployment
    - Node.js will “run” our website in a runtime environment, while React.js will enable the UI
- Data: SQL/PostgreSQL
    - This will be used to store usernames/passwords for access to the site
    - Other data including profile information, class names, location names, etc. will be stored here