Product Backlog: ApptiTutor

Team 12

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Problem

While going to school full time, classes can get tough and some students require additional tutoring. Purdue University does not offer a system dedicated to students finding tutors and tutors offering their services for specific classes. While bulletin boards with flyers offering tutoring services exist throughout almost every building, many students ignore or do not notice these postings. Our system will offer a quick and reliable way for students and tutors to connect via an intuitive web application from anywhere, at anytime.

Background Information

1. Problem/Domain/Target Users

Ultimately the problem is: there is no good way for students to find tutors on campus. We will develop a web application that will allow students to find a tutor as well as be a tutor if they have the skills and desire. The scope of the project includes areas such as education, college tutoring, and web applications. We will be targeting tutors to better publicize their services and students in an effort to streamline their process for finding a tutor.

1. Similar Products
   1. University Tutor
   2. Chegg Online Tutoring
   3. tutor.com
2. Similar Product Limitations

There are many limitations that the other websites have. University Tutor and tutor.com both allow you to search for tutors by zipcode and subject but they do not let you search for a specific class. Also, those websites do not have an intuitive UI or website design. Tutor.com does let you search by subject but, like chegg, the tutoring is online only. What sets our service apart is it will allow students and tutors to connect online but set them up to meet in person on campus. We will have tutors sorted by skills along with the classes they can tutor so the student can find their best match.

Requirements

1. Functional

User

* + - As a user I would like to have a username and password login.
    - As a user I would like to recover my password if I forget it.
    - As a user I would like to recover my username if I forget it.
    - As a user I would like to change my username and password.
    - As a user I would like to be a student, a tutor, or both.
    - As a user I would like to choose to get a message reminding me about my meetings for the day, week, etc.
    - As a user I would like to be able to upload a profile picture.
    - As a user I would like to have an “about me” in my profile.
    - As a user I would like a simple and intuitive interface.
    - As a user I would like the interface to be less typing and more point and click.
    - As a user I want to easily switch between the student and tutor sides
    - As a user I would like a tutorial on how to use the website.
    - As a user I would like to be able to ask questions, make suggestions and report bugs to the development team.
    - As a user I want a FAQ to help me with questions I have about the app.
    - As a user I would like to cancel or reschedule meetings using a calendar. (if time allows)
    - As a user I would like to have a calendar that has all my scheduled meetings and free time on it. (if time allows)
    - As a user I would like to be able to see a location on campus. (if time allows)
    - As a user I would like to search for tutors even if I don’t have an account. (if time allows)

Student

* + As a student I would like to be able to find a tutor.
  + As a student I would like to sort the tutors based on things like class, rating, age, gender, cost, etc.
  + As a student I would like to rate tutors on how good they are.
  + As a student I would like to write reviews about tutors.
  + As a student I would like to be able to read the reviews about tutors.
  + As a student I would like to be able to send tutors messages.
  + As a student I would like to be able to find a tutor that specializes in a specific topic within a class.
  + As a student I would like to see the rates of the tutor.
  + As a student I would like to have “favorite” tutors.
  + As a student I would like to use an auto pay system. (if time allows)
    - As a student I would like to be able to make a group of students for a tutor. (if time allows)
    - As a student I would like to pay for my sessions through PayPal. (if time allows)

Tutor

* + As a tutor I would like to show up in searches that I am most relevant to.
  + As a tutor I want reviews so I know how to improve myself through different statistics like clarity, knowledge, politeness, and flexibility.
  + As a tutor I would like to be able to show my skills on my profile.
  + As a tutor I would like to select from a list of skills.
  + As a tutor I would like to be able to communicate with students.
  + As a tutor I would like to be able to see all the students interested in me
  + As a tutor I would like to control when I get paid. (if time allows)
  + As a tutor I would like to communicate with other tutors to talk about problems I do not know. (if time allows)
  + As a tutor I would like access to the class syllabus for the semester. (if time allows)
    - As a tutor I would like to view what classes need tutors. (if time allows)
    - As a tutor I would like to have control of the group and lead the organization sessions. (if time allows)
    - As a tutor I would like to be able to report a student (if time allows)

Non-Functional

* We need a searchable database for the classes at the university.
* We need a searchable database of users in the system.
* We need a searchable database of skills for tutors to select from.
* We need a searchable database with all the conversations.
* We need to design our databases to be secure and protected.
* We need to make sure that the webapp performs well on mobile and computer devices.
* We need it to be able to work in all browsers.
* We need to have error handling for signing in.
* We need to have error handling for writing text into the website.
* We need to have error handling if the server code crashes.
* We need to make sure logins and all communication is secure.
* We need to be able to bring up the server instantly if it crashes. (if time allows)
* We need to have an API to get tutors for classes.
* We need an API to make calls to our server and Database
* We need to have our API well documented.
* We need to make sure the webapp and server are scaleable.
* We need a thin client and have the server do most of the processing.