

# Final Project for SW Engineering Class CSC 648-848 Fall 2023

**Name: Gators Tutor**

**Team: 5**

## **Team Members:**

Daivik Purani - **Team Lead**

William Ambriz - **GitHub Master**

Jovanny Ramos - **Front-End Lead**

Akshar Goth - **Back-End Lead**

Esau Bojorquez Medina - **Front-End, Documentation**

Siarhei Pushkin - **Front-End, Documentation**

**Product URL:** <http://3.101.225.46:3000/>

**Date:** 12/12/2023

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## 1. Product Summary

Name of the Product: Gators Tutor

Final P1 List:

1. Unregistered Users (students) shall be able to search for tutors by SFSU-specific subject;
2. Unregistered Users (students) shall be able to view details about tutors;
3. Unregistered Users (students or tutors) shall be able to register.
4. Registered Users (students) shall be able to send messages to tutors;
5. Registered Users (students) shall be able to apply to become a tutor;
6. Registered Users (tutors) shall be able to fill out a general description when applying to become a tutor;
7. Registered Users (tutors) shall be able to choose a topic in their application;
8. Registered Users (tutors) shall be able to edit their application;
9. Admins shall be required to approve tutors before tutors are added to the platform;
10. Admins shall be required to approve all posts before they go live on the platform;
11. Admins shall be able to delete tutor posts.

**Product URL:** <http://3.101.225.46:3000/>

## 2. Milestone Documents

Milestone 1 Document:

SW Engineering CSC648-848 Fall 2023

**Gators Tutor Project**

**Team 5**

**Team Members:**

Daivik Purani - Team Lead [\[dpurani@sfsu.edu\]](mailto:dpurani@sfsu.edu)

Jovanny Ramos - Front-End Lead

Akshar Gothi - Back-End Lead

William Ambriz - GitHub Master

Esau Bojorquez Medina - Documentation

Siarhei Pushkin - Documentation

### Milestone 1

Document Version	Date submitted	Description
1.0	9/28/2023	First version
1.1	10/05/2023	Second Version

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## Executive Summary

**Project name:**

Gators Tutor (temporary name)

**Project Summary:**

Gators Tutor is a user-friendly online tutoring platform exclusively designed for San Francisco State University (SFSU) students. Our primary goal is to empower SFSU students by granting them access to experienced tutors across various subjects. Our unwavering commitment to academic excellence is reflected in our mission to enhance the educational journey of every SFSU student through top-notch tutoring services.

One distinctive feature of Gators Tutor is SFSU-specific search. For example, when you search for tutors on Gators Tutor, you can filter results by SFSU-specific classes, ensuring that you receive personalized support that aligns with your academic curriculum. Whether you're seeking assistance in mathematics, science, business, languages, writing, or other subjects, our platform is finely tuned to cater to the specific academic needs of SFSU students. But we don't stop there. At Gators Tutor, we believe in transparency and accountability. That's why we allow students to rate their tutors. This feature lets you share your experiences and help other students make informed decisions when selecting a tutor. It's our way of ensuring students receive the best support on their academic journey.

Moreover, we also empower SFSU students not only to seek academic assistance but also to become tutors themselves. If you excel in a particular subject, you can join our ranks of esteemed tutors, collaborate with your peers, and earn additional income while helping fellow students excel in their studies.

Our dedicated team is comprised of individuals who are passionate about education and committed to the SFSU community. We strive to create an efficient, simple, and user-friendly platform for our fellow students, equipping them with the tools needed to achieve their educational goals.

Overall, our platform is the perfect place for any SFSU student seeking assistance in their classes or wanting to help others and earn extra money. Gators Tutor is your comprehensive academic support destination. Our user-friendly interface makes signing up as a tutor, searching for a tutor, or scheduling online tutoring sessions effortless, ensuring academic support is always within your reach.

## Personae and Main Use Cases

### Our Personae

- Emily, Freshman student
- Alex, the Experienced Biology Tutor
- Professor Rodriguez, the Admin
- Mark, Senior Student

**Persona 1**



Emily, Freshman student

### Background

- Emily is a freshman at San Francisco State University (SFSU), majoring in psychology.
- She's new to the campus and university life, and the transition has been challenging.

- Emily is struggling to keep up with her coursework and needs help understanding basic psychology concepts.

Emily is a first-generation college student, and her transition to university life has been particularly challenging. She comes from a small town and is now navigating the bustling city of San Francisco for the first time. The cultural shift and the demands of university coursework have left her feeling overwhelmed and out of her depth. She's determined to succeed in her psychology major but needs help to grasp the foundational concepts. Emily is also keen to make friends and establish herself within the SFSU community, but her academic struggles have been stressful.

### Persona 2



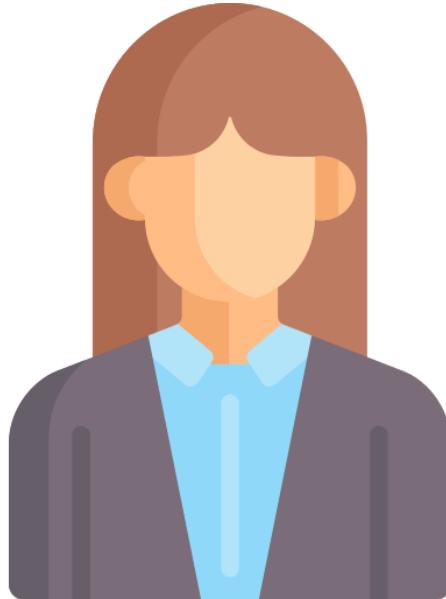
Alex, the Experienced Biology Tutor

## Background

- Alex is a senior biology major at SFSU with a strong academic record.
- He has a passion for teaching and wants to earn some extra money by tutoring fellow students.
- Alex has previously tutored classmates and has experience in explaining complex biology concepts.

Alex is an ambitious student who has excelled academically at SFSU. He is passionate about biology and enjoys helping his peers understand challenging concepts. As a senior, Alex is looking for opportunities to give back to the university community and earn some extra money to support himself through his final year of studies. His past experiences tutoring classmates have instilled in him a sense of fulfillment, and he sees tutoring as a way to combine his passion for teaching with his financial needs.

### Persona 3



Professor Rodriguez, the Admin

#### Background

- Professor Rodriguez is a faculty member at SFSU and serves as an admin on the tutoring platform.
- She believes in the importance of academic support and wants to ensure the platform runs smoothly.
- Professor Rodriguez also oversees the platform's compliance with university policies and regulations

Professor Rodriguez is a dedicated faculty member at SFSU with a long history of involvement in academic support programs. She has seen firsthand the impact of tutoring and mentorship on student success and firmly believes in the importance of these services. In her administrative role on the tutoring platform, she is committed to ensuring that SFSU students can access high-quality academic support. Professor

Rodriguez also takes compliance with university policies seriously, as maintaining the platform's integrity is crucial to its success and the university's reputation.

#### Persona 4



Mark, Senior Student

#### Background

- Mark is a senior computer science student at SFSU.
- He's always on the go and prefers using his smartphone for most tasks.
- Mark values the convenience of accessing resources and services through his mobile device.

Mark is a highly motivated senior who balances his computer science studies with a part-time job and involvement in various student organizations. He's always on the move, attending class meetings and working daily shifts. Mark relies heavily on his smartphone for convenience and efficiency in managing his busy schedule. He values quick and seamless access to resources and services, including academic support. He prefers using mobile apps for their flexibility and accessibility, reflecting his commitment to maximizing his time and productivity.

**Use Cases:****Use Case 1**

Emily is in need of a tutor for her psychology class that she is taking at SFSU.

She navigates to the Gators Tutor website after being told that her school has a proper site to find SFSU tutors. Then Emily begins to use its search function and enters her specific course name/ID. After scrolling through a list of available tutors, Emily selects a tutor. When she goes to book her appointment, a sign-up page will be prompted. After quickly setting up a profile, she will be able to finish up her appointment for tutoring.

**Use Case 2**

Emily has used Gators Tutor in the past and had a positive experience with her previous tutor. She needs help again with her new psychology class. Instead of searching for a tutor from scratch, she logs in to her existing account, where she can access her previous tutor's profile. She quickly schedules another tutoring session, saving time and ensuring continuity in her learning.

### **Use Case 3**

Since Alex wants to become a tutor for his school, he visits the Gators Tutor website. He looks up his courses to see how many tutors are in his field of study. Then he decided to sign up as a tutor. On the navigation bar, he easily finds the Sign Up section and begins the profile-creating process. During the process, he can choose to serve as a tutor. This is where Alex provides his academic background, including his senior status as a biology major and his strong academic record. In his description, Alex highlights his passion for teaching and mentions his prior experience in tutoring classmates and explaining intricate biology concepts. After completing the signup process, Alex eagerly awaits approval. This will allow him to start his tutoring services and help fellow students in biology.

### **Use Case 4**

Alex decides to enhance his tutoring profile further by adding video introductions. He logs in to his Gators Tutor account, navigates to the "Edit Profile" section, and uploads a short video introducing himself, explaining his tutoring approach, and sharing his passion for biology. This personalized touch makes his profile stand out and attracts more students to his tutoring services.

### **Use Case 5**

Professor Rodriguez regularly monitors the pool of tutors to maintain the platform's quality and adherence to university policies. Logging into her admin dashboard, she navigates to the "SFSU Tutors" section, where she can review the profiles of all registered users. Professor Rodriguez examines each tutor's qualifications, expertise, and credentials to ensure they meet the platform's standards.

This also included a review of any material/data, such as images, videos, or links. Her diligence helps guarantee that Gators Tutor continues to run smoothly while upholding the university's policies and regulations.

### **Use Case 6**

Professor Rodriguez receives a report about a tutor who has received multiple complaints from students regarding unprofessional behavior. She investigates the matter by logging in to her admin dashboard and reviewing the tutor's interactions with students. After confirming the issues, she takes appropriate action, which may include a temporary suspension or counseling for the tutor.

### **Use Case 7**

Mark, a busy senior computer science student at SFSU, values the convenience of accessing services on his smartphone. Needing tutoring support, he opens the Gators Tutor website, which he's heard is the ideal platform for finding SFSU tutors. Mark enters his course details using the SFSU course search feature, and a list of available computer science tutors appears on his screen. After selecting a tutor, he proceeds to book his tutoring session. At this point, the app prompts him to sign up. In a few swift steps, Mark sets up his profile on his phone and successfully schedules his tutoring appointment, all while on the go. This seamless mobile experience aligns perfectly with his preference for convenience.

### **Main Use Cases for the Online Tutoring Platform:**

1. **Student Access to Tutors:** SFSU students like Emily can easily connect with qualified tutors for help with their coursework.
2. **Tutor Sign-Up and Management:** Students like Alex can become tutors, creating profiles, setting rates, and offering their expertise to help their peers.
3. **Admin Oversight:** Faculty members like Professor Rodriguez can manage the platform, ensuring it aligns with university policies and maintains a high standard of tutoring quality.
4. **Mobile Accessibility:** Students who prefer mobile access, like Mark, can conveniently find tutors, schedule sessions, and access resources through the platform's mobile app.

## List of main data items and entities

### Entities:

#### User Accounts:

- Admins
- Registered Users
- Non Registered Users

#### Profile Information:

- Personal details (name, age, contact information)
- Educational background (Grade level, classes taken, major)

#### Content:

- Study materials (textbooks, notes, practice questions)
- Tutor-created content (lesson plans, quizzes)
- User-generated content (questions, answers, explanations)

#### Ratings and Reviews:

- User ratings for tutors and study materials
- Written reviews and feedback

#### Messaging and Notifications:

- On site messages

#### Search:

- Search queries and filters
- Courses available

**Account Settings:**

- Privacy settings
- Email preferences
- Password management

**Data Items:****User Data:**

- User IDs
- Usernames
- Email addresses
- Passwords
- User Accounts

**Content Data:**

- Content IDs
- Content types (text, video, quiz)
- Content ratings and reviews
- Content tags and categories

**Rating and Review Data:**

- Rating scores
- Written reviews

**Messaging Data:**

- Time and Date

- Tutor selected

**Search Data:**

- User search queries
- Class search
- Tutor search

**Account Settings Data:**

- Privacy settings (public, private)
- Notification preferences
- Security settings

## List of functional requirements

### **Unregistered users:**

1. Unregistered Users (students) shall be able to search for tutors by major or SFSU-specific subject;
2. Unregistered Users (students) shall be able to search for tutors by name;
3. Unregistered Users (students) shall be able to view details about tutors, view their pricing, and read reviews, if any.
4. Unregistered Users (students) shall be able to begin to write reviews on tutors before being prompted to log in or register;
5. Unregistered Users (tutors) shall be able to begin applying to become a tutor on the platform before being prompted to register (lazy registration for tutors).

### **Registered users:**

6. Registered Users (students) shall be able to send messages to tutors;
7. Registered Users (students) shall be able to book appointments with tutors;
8. Registered Users (students) shall be able to post reviews on tutors;
9. Registered Users (students) shall be able to apply to become a tutor;
10. Registered Users (tutors) shall be able to create profiles with their details (major, qualification, price, etc.);
11. Registered Users (tutors) shall be able to post available time slots for tutoring;

12. Registered Users (tutors) shall be able to send messages to students regarding their tutoring sessions.

**Admin:**

13. Admins shall approve tutors before tutors are added to the platform;
14. Admins shall approve all posts before they go live on the platform;
15. Admins shall approve student reviews before they go live on the platform;
16. Admins shall be able to edit or delete tutor posts.

**Tutor Posts:**

17. All tutor posts shall have a title;
18. All tutor posts shall have a description;
19. All tutor posts shall have a submit button;
20. All tutor posts shall have an image/video submission field;
21. Media files shall only be accepted in certain formats (png, jpg, jpeg, mp4);
22. All tutor posts shall display the time and date of the submission;
23. All tutor posts shall display the User who created the post;
24. All tutor posts shall have a character limit.

## List of non-functional requirements

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of two major browsers
3. All or selected application functions shall render well on mobile devices
4. Data shall be stored in the database on the team's deployment server.
5. No more than 50 concurrent users shall be accessing the application at any time
6. Privacy of users shall be protected
7. The language used shall be English (no localization needed)
8. Application shall be very easy to use and intuitive
9. Application shall follow established architecture patterns
10. Application code and its repository shall be easy to inspect and maintain
11. Google analytics shall be used
12. No email clients shall be allowed. Interested users can only message to sellers via in-site messaging. One round of messaging (from user to seller) is enough for this application
13. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated in UI.
14. Site security: basic best practices shall be applied (as covered in the class) for main data items

15. Media formats shall be standard as used in the market today
16. Modern SE processes and tools shall be used as specified in the class, including collaborative and continuous SW development
17. The application UI (WWW and mobile) shall prominently display the following exact text on all pages "SFSU Software Engineering Project CSC 648-848, Fall 2023. For Demonstration Only" at the top of the WWW page nav bar. (Important so as to not confuse this with a real application).

## Competitive analysis

### Competitor 1: Chegg.com

**Website Features:** Offers a wide range of educational resources, including textbook rentals, homework help, test prep, and study tools. The website has a user-friendly interface, and their services cover various academic subjects and levels.

**Pricing:** Employs a subscription-based model, providing access to most of its features for a monthly fee. They also offer a free trial period. The pricing is competitive for students seeking multiple educational resources.

**Customer Feedback:** Generally receives positive reviews for its textbook rental service and homework help features. Students appreciate the convenience and cost-effectiveness of the platform.

### SWOT Analysis:

**Strengths:** Broad range of educational resources, competitive pricing, strong brand recognition.

**Weaknesses:** Reliance on a subscription model, potential limitations in certain subject areas.

**Opportunities:** Expanding into new educational services, enhancing subject coverage.

**Threats:** Competition from other online education platforms, evolving student needs.

**Market Research:** Chegg.com operates in a growing market for online education services, with a focus on students in higher education and high school.

#### **Competitor 2:** Brainly.com

**Website Features:** A collaborative learning platform where students can ask questions and get answers from their peers. It covers a wide range of academic subjects and levels. The website features a community-driven Q&A format, with user-generated content.

**Pricing:** Offers free access to its basic services, but it also offers a premium subscription called "Brainly Plus" for additional features like faster answers and ad-free browsing.

**Customer Feedback:** The platform generally receives positive reviews for its concept of peer-to-peer learning and community support. Users appreciate the free access to educational resources.

#### **SWOT Analysis:**

**Strengths:** Peer-to-peer learning concept, wide subject coverage, strong user community.

**Weaknesses:** Limited advanced content, reliance on user-generated answers.

**Opportunities:** Expanding premium offerings, diversifying content types.

**Threats:** Competition in the online education space, potential issues with content quality.

**Market Research:** Brainly.com operates in a growing market for online educational support and homework help, catering to students from various academic backgrounds.

### **Competitor 3:** CourseHero.com

**Website Features:** A range of educational materials, including study guides, class notes, textbook solutions, and access to course-specific resources. The platform's interface is user-friendly, and it covers a wide array of academic subjects and courses.

**Pricing:** Subscription-based pricing model, providing users with unlimited access to its library of resources for a monthly fee. They also offer a free basic membership with limited access. The pricing is competitive for students seeking supplemental course materials.

**Marketing:** Promotes its services through digital marketing, email campaigns, and partnerships with educational institutions. They engage with students through targeted content, blog posts, and webinars on study strategies.

**Customer Feedback:** Mixed reviews from users. While some students appreciate the extensive resource library, others express concerns about the quality of user-generated content and the subscription model.

### **SWOT Analysis:**

**Strengths:** Extensive resource library, competitive pricing, partnerships with educational institutions.

**Weaknesses:** Mixed reviews due to content quality concerns, reliance on a subscription model.

**Opportunities:** Expanding into new educational services, improving content quality.

**Threats:** Competition from other online education platforms, evolving student needs.

**Market Research:** Operates in a competitive market for online education services, catering primarily to college and university students.

Features	Chegg.com	Brainly.com	Course Hero.com	Gators tutor
<b>SFSU course search</b>	+	+	+	++
<b>SFSU tutor search</b>	-	-	-	++
<b>Reviews/Feedback</b>	+	+	+	+
<b>Study Material (class based)</b>	+	+	+	++
<b>Scheduling/Booking</b>	+	+	+	++

Does not have: - Okay: + Superior: ++

### **Summary:**

We plan to help SFSU students find the right match with tutors. Gators tutor aims to capitalize on these competitor insights by offering SFSU students a platform that not only provides comprehensive subject coverage and a flexible subscription model but also prioritizes the curation of high-quality content and advanced session management tools. Furthermore, Gators Tutor will integrate specific features such as course lookup. Which is tailored specifically to students taking courses at San Francisco State University.

## High-level system architecture and technologies used

**Server-Side Language:** JavaScript

**Frameworks:** React, Node JS (v18.17.1)

**Markup languages:** HTML, CSS, JSON

**Database System:** MySQL (v8.0.33)

**Server Host:** AWS

**Instance details:**

**Operating System:** Ubuntu;

**Platform details:** Linux/UNIX;

**Instance type:** t2.micro;

1 vCPU

1 GiB Memory

**Volume:** 8 GiB, EBS, General Purpose SSD (gp2)

**APIs:**

**Web Analytics:** Google Analytics

**IDE:** Microsoft Visual Studio Code

**SSL Cert:** Let's Encrypt

**Project Management:** Trello

**ChatGPT:** YES

## Use of ChatGPT

We used ChatGPT for our project, and here are the details:

1. **Version Used:** We used ChatGPT version 3.5 for our project.
2. **Review of ChatGPT Class Slides and Policies:** Yes, we reviewed the ChatGPT class slides and policies to ensure that we were using the tool responsibly and ethically.
3. **Overall Helpful:** ChatGPT was quite helpful for our project, and we would consider using it for similar activities in the future.

### Tasks and Usefulness:

- a. **Generating General Project Ideas** - HIGH: ChatGPT was very useful in generating general ideas for our project. We provided it with some initial concepts, which helped us expand on those ideas and develop new ones. This benefited our project by giving us a broader range of options to choose from.
- b. **Improving Project Summary** - MEDIUM: We used ChatGPT to improve our project summary slightly. While it provided some useful suggestions, we found that it was more effective for generating ideas than refining existing content.
- c. **Drafting Content for Presentation** - MEDIUM: We drafted the content for certain sections of our presentation (personae and use cases section) and then used ChatGPT

to refine and polish it. While it helped enhance the language and coherence, it wasn't as useful as it was for generating general ideas.

In summary, ChatGPT was a valuable tool for our project, especially for generating ideas and improving certain sections. While it was helpful for content refinement, its primary strength lay in the creative and generative aspects.

## **Team and roles**

Daivik Purani	Team Lead
Jovanny Ramos	Front-End Lead
Akshar Gothi	Back-End Lead
William Ambriz	GitHub Master
Esau Bojorquez Medina	Documentation
Siarhei Pushkin	Documentation

## Checklist

- So far all team members are engaged and attending team sessions when required - **DONE/OK**.
- Team found a time slot to meet outside of the class - **DONE/OK**.
- Back end, Front end leads and Github master chosen - **DONE/OK**.
- Team ready and able to use the chosen back and front end frameworks and those who need to learn are working on learning and practicing - **DONE/OK**.
- Team reviewed class slides on requirements and use cases before drafting Milestone 1 - **DONE/OK**.
- Team lead ensured that all team members read the final M1 and agree/understand it before submission - **DONE/OK**.
- Github organized as discussed in class (e.g. master branch, development branch, folder for milestone documents etc.) - **DONE/OK**.

Milestone 2 Document:

**SW Engineering CSC648-848 Fall 2023**

**Gators Tutor Project**

**Team 5**

**Team Members:**

Daivik Purani - Team Lead [[dpurani@sfsu.edu](mailto:dpurani@sfsu.edu)]

Jovanny Ramos - Front-End Lead [[jramos31@sfsu.edu](mailto:jramos31@sfsu.edu)]

Akshar Gothi - Back-End Lead

William Ambriz - GitHub Master

Esau Bojorquez Medina - Documentation

Siarhei Pushkin - Documentation

**Milestone 2**

Document Version	Date submitted	Description
1.0	10/14/2023	First version
1.1	10/17/2023	Second version

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## Executive Summary

**Project name:**

Gators Tutor

**Project Summary:**

Gators Tutor is a user-friendly online tutoring platform exclusively designed for San Francisco State University (SFSU) students. Our primary goal is to empower SFSU students by granting them access to experienced tutors across various subjects. Our unwavering commitment to academic excellence is reflected in our mission to enhance the educational journey of every SFSU student through top-notch tutoring services.

One distinctive feature of Gators Tutor is SFSU-specific search. For example, when you search for tutors on Gators Tutor, you can filter results by SFSU-specific classes, ensuring that you receive personalized support that aligns with your academic curriculum. Whether you're seeking assistance in mathematics, science, business, languages, writing, or other subjects, our platform is finely tuned to cater to the specific academic needs of SFSU students. It's our way of ensuring students receive the best support on their academic journey.

Moreover, we also empower SFSU students not only to seek academic assistance but also to become tutors themselves. If you excel in a particular

subject, you can join our ranks of esteemed tutors, collaborate with your peers, and earn additional income while helping fellow students excel in their studies.

Our dedicated team is composed of individuals who are passionate about education and committed to the SFSU community. We strive to create an efficient, simple, and user-friendly platform for our fellow students, equipping them with the tools needed to achieve their educational goals.

Overall, our platform is the perfect place for any SFSU student seeking assistance in their classes or wanting to help others and earn extra money. Our user-friendly interface makes signing up as a tutor, searching for a tutor, or scheduling online tutoring sessions effortless. Through our project we hope to help hundreds of students in need of academic support by providing a platform for SFSU students to collaborate efficiently.

## List of main data items and entities

### Entities:

#### User Types:

- Admins
  - Control what gets put on the site.
- Registered Users
  - Registered Users are students or tutors that made an account.
- Non Registered Users
  - Non registered users are students or tutors that have not made an account but are viewing the site.

#### Tutor Profile:

- Personal details
  - Name, age, contact information
- Educational background
  - Grade level, classes taken, major
- Availability (optional)
  - Time and Dates

#### Messaging and Notifications:

- On site messages

#### Search:

- Search queries and filters
- Courses available

#### Account Settings:

- Privacy settings
- Email preferences
- Password management

**Data Items:****User Data:**

- User IDs
- Email addresses
- Passwords
- User Accounts

**Tutor Data:**

- Study materials
  - textbooks, notes, practice questions

**Messaging Data:**

- Sender Information
- Time and Date
- Tutor selected

## **List of functional requirements**

### **Priority 1:**

#### **Unregistered users:**

1. Unregistered Users (students) shall be able to search for tutors by major or SFSU-specific subject;
2. Unregistered Users (students) shall be able to view details about tutors, view their pricing, and read reviews, if any;
3. Unregistered Users (students or tutors) shall be able to register.

#### **Registered users:**

4. Registered Users shall inherit all functions of Unregistered Users;
5. Registered Users (students) shall be able to send messages to tutors;
6. Registered Users (students) shall be able to apply to become a tutor;
7. Registered Users (tutors) shall be able to fill out a general description when applying to become a tutor;
8. Registered Users (tutors) shall be able to add multiple topics to their application;
9. Registered Users (tutors) shall be able to edit their application to add and remove topics;

#### **Admin:**

10. Admins shall be required to approve tutors before tutors are added to the platform;
11. Admins shall be required to approve all posts before they go live on the platform;

12. Admins shall be able to delete tutor posts.

**Priority 2:**

**Registered users:**

13. Registered Users (students) shall be able to book appointments with tutors;
14. Registered Users (tutors) shall be able to post available time slots for tutoring;

**Admin:**

15. Admins shall be required to approve student reviews before they go live on the platform;

## UI Storyboards

### Use Case 1: Student Searching for a Tutor

*Use Case Description:* Emily is a first-generation college student. She's determined to succeed in her psychology major but needs help to grasp the foundational concepts. To do so she is searching for a tutor on the Gators Tutor website using her desktop computer.

Steps:

1. Emily opens her web browser and visits the Gators Tutor website. She uses the search function to enter her psychology class's specific course name/ID.

The storyboard illustrates the user interface for a student searching for a tutor. At the top, there is a navigation bar with links for "Become a Tutor", "About Us", "Tutors", and a user icon. Below the navigation bar, a main heading reads "Best place to find SFSU tutors for SFSU Students". A search bar contains the placeholder "Search for class (e.g. CSC-648)" with a "Go" button. A descriptive text below the search bar states, "One of the greatest collection of San Francisco State University experts in 100+ subjects ready to educate you on time!"

The central part of the storyboard shows a section titled "Recently Applied Tutors" featuring three tutor profiles. Each profile includes a placeholder image, the tutor's "Full Name" and "Main Subject Proficiency", a short description, and two buttons: "Contact" and "View".

Profile 1 (Left)	Profile 2 (Middle)	Profile 3 (Right)
<i>Name Subject Proficiency</i>	<i>Full Name Main Subject Proficiency</i> <i>Here would include a small and summarized description of their chosen classes or likes. Nothing long can go here or it won't fit at all.</i>	<i>Full Name Main Subject Proficiency</i> <i>Here would include a small and description of their chosen clas Nothing long can go here or it v</i>
<i>ld include a small and summarized on of their chosen classes or likes. ong can go here or it won't fit at all.</i>	<i>Contact View</i>	<i>Contact View</i>

2. The website displays a list of available psychology tutors. Emily reviews tutor profiles and qualifications, viewing them on her desktop screen.

The screenshot shows a website interface for "Cheep". At the top, there is a dark header bar with the word "Cheep" on the left, and links for "Become a Tutor", "About Us", "Tutors", and a user icon on the right. Below the header, there is a search bar with the placeholder "Search for class (e.g. CSC-648)" and a "Go" button. The main content area is titled "Results: 1-4 out of 12 results". It displays four tutor profiles in a grid format. Each profile includes a placeholder image, the tutor's "Full Name" and "Main Subject Proficiency", and a short description: "Here would include a small and summarized description of their chosen classes or likes. Nothing long can go here or it won't fit at all.". Below each profile are "Contact" and "View" buttons. At the bottom of the results section, there is a navigation bar with three small squares.

Full Name	Main Subject Proficiency	Description	Contact	View
[Placeholder]	[Placeholder]	[Placeholder]	[Placeholder]	[Placeholder]
[Placeholder]	[Placeholder]	[Placeholder]	[Placeholder]	[Placeholder]
[Placeholder]	[Placeholder]	[Placeholder]	[Placeholder]	[Placeholder]

Go Back <

**Full Name**

**Title**

Topics: Math, English, Science, History, Physical Education and more.....etc

Big 'ol text box that can hold a long description of whatever you would like to put here. This is all just filler text to make the page more full while not sacrificing with a short description. We can keep on typing up until the next line so we can guarantee that it is long enough. The question is will you read this entire paragraph and realize you wasted your time doing so. That looks about long enough!

**Get in Contact**

**Media:**

3. After considering several profiles, she selects a tutor who matches her needs.

She decided to sign up and started creating her student profile. After that, she can message a tutor.

The screenshot shows a web page titled "Sign up Application". At the top, there is a navigation bar with links for "Become a Tutor", "About Us", "Tutors", and a user icon. On the left, the word "Cheep" is displayed. The main form area contains five input fields labeled "First Name", "Last Name", "Email Address (SFSU)", "Student ID #", and "Password". Below these fields is a checkbox labeled "Accept Terms and Conditions". At the bottom is a large "Sign up" button.

**Sign up Application**

\*First Name

\*Last Name

\*Email Address (SFSU)

\*Student ID #

\*Password

Accept Terms and Conditions

**Sign up**

*Already have an account? Sign in*

### Use Case 2: Student Sign-In to his account

Emily has used Gators Tutor in the past and had a positive experience with her previous tutor. She needs help again with her new psychology class.

Steps:

1. Emily opens her web browser and navigates to the Gators Tutor website.

The screenshot shows the homepage of the Gators Tutor website. At the top, there is a dark header bar with the word "Cheep" on the left and navigation links for "Become a Tutor", "About Us", "Tutors", and a user icon on the right. Below the header, a main title reads "Best place to find SFSU tutors for SFSU Students". A search bar contains the placeholder "Search for class (e.g. CSC-648)" with a "Go" button. A sub-header below the search bar says "One of the greatest collection of San Francisco State University experts in 100+ subjects ready to educate you on your time!". A section titled "Recently Applied Tutors" displays three tutor profiles. Each profile includes a placeholder image, the tutor's name, their main subject, and a brief description. Buttons for "Contact" and "View" are provided for each tutor. The background of the page features a grayscale photograph of a modern building with large windows.

**Cheep**

Become a  
Tutor      About Us      Tutors

**Best place to find SFSU tutors  
for SFSU Students**

Topics    Search for class (e.g. CSC-648)    Go

One of the greatest collection of San Francisco State University experts in 100+ subjects ready to educate you on your time!

**Recently Applied Tutors**

Name	Main Subject Proficiency	Description	Contact	View
[Placeholder]	<b>Full Name</b> Main Subject Proficiency	Here would include a small and summarized description of their chosen classes or likes. Nothing long can go here or it won't fit at all.	[Placeholder]	[Placeholder]
[Placeholder]	<b>Full Name</b> Main Subject Proficiency	Here would include a small and summarized description of their chosen classes or likes. Nothing long can go here or it won't fit at all.	[Placeholder]	[Placeholder]

2. Instead of searching for a tutor from scratch, she logs in to her existing account, where she can message her previous tutor or find a new one.

X

### ***Sign In To Your Account***

***Username:***

***Password:***

***Login***

***Dont have an account? Sign Up***

***Forgot Password***

### ***Use Case 3: Tutor Creating a Profile***

Use Case Description: Alex is an ambitious student who has excelled academically at SFSU. He is a senior biology major aspiring to tutor and wants to create his tutor profile on the Gators Tutor website using his desktop computer.

- Alex opens his web browser and visits the Gators Tutor website.

The screenshot shows the homepage of the Gators Tutor website. At the top, there is a dark header bar with the word "Cheep" on the left and navigation links for "Become a Tutor", "About Us", "Tutors", and a user icon on the right. Below the header, a main title reads "Best place to find SFSU tutors for SFSU Students". A search bar with the placeholder "Search for class (e.g. CSC-648)" and a "Go" button is present. A sub-header below the search bar says "One of the greatest collection of San Francisco State University experts in 100+ subjects ready to educate you on your time!". The main content area features a section titled "Recently Applied Tutors" with two visible tutor profiles. Each profile includes a placeholder image, the tutor's name, their main subject, and a brief description of their classes or likes. Buttons for "Contact" and "View" are provided for each tutor.

- He navigates to the "Became a Tutor" section, and the website guides him through the tutor profile creation process. Alex provides his academic background, including his major and strong academic record, on his desktop screen. He uploaded his academic certificates showing his qualifications. He highlights his passion for teaching and previous tutoring experience in the

description section. After completing the profile, Alex eagerly awaits approval from the platform.

The screenshot shows a web-based application for tutor registration. At the top, there's a dark header bar with the brand name "Cheep" on the left, and links for "Become a Tutor", "About Us", and "Tutors" on the right, along with a user icon. Below the header is a light gray main area containing the "Tutor Application" form. The form consists of several input fields with labels and placeholder text. The fields include:

- \*First Name
- \*Last Name
- Topics (with a dropdown menu showing "V")
- \*Email Address (SFSU)
- \*Student ID #
- \*Password
- Search keys
- Description (Limit 500 Chars)
- CV (with a file upload button: ^Click to upload file (type: .pdf))
- Media (photos/videos) (with a file upload button: ^Click to upload file (type: .jpeg, .png, .jpg, .mov, .mp4))

At the bottom of the form, there's a checkbox labeled "Accept Terms and Conditions" followed by a large, prominent "Sign up" button.

## Use Case 6: User Resetting Forgotten Password

Use Case Description: Alex, a student, has forgotten his password to access the Gators Tutor platform via his desktop computer. He needs to reset his password to regain access to his account.

Steps:

1. Alex opens his web browser and visits the Gators Tutor website on his desktop.

The screenshot shows the homepage of the Gators Tutor website. At the top, there is a dark header bar with the word "Cheep" on the left and navigation links for "Become a Tutor", "About Us", "Tutors", and a user icon on the right. Below the header, a main title reads "Best place to find SFSU tutors for SFSU Students". A search bar contains the placeholder "Search for class (e.g. CSC-648)" with a "Go" button. A sub-header below the search bar says "One of the greatest collection of San Francisco State University experts in 100+ subjects ready to educate you on your time!". The main content area features a section titled "Recently Applied Tutors" with three tutor profiles. Each profile includes a placeholder image, the tutor's name, their main subject, and a brief description. Buttons for "Contact" and "View" are provided for each tutor.

2. He attempts to log in but realizes he has forgotten his password. On the login page, he clicks on the "Forgot Password" link.

X

## ***Sign In To Your Account***

***Username:***

***Password:***

***Login***

***Dont have an account? Sign Up***

***Forgot Password***

- The website redirects him to the password reset page.

### Use Case 7: User Checks their Dashboard

**Use Case Description:** Alex, a tutor, has opened the website up with the intention of checking their dashboard. Alex can do so after logging into their account.

Steps:

- Alex opens his web browser and visits the Gators Tutor website on his desktop.

The screenshot shows the Gators Tutor website interface. At the top, there is a dark header bar with the word "Cheep" on the left and navigation links for "Become a Tutor", "About Us", "Tutors", and a user icon on the right. Below the header, a main banner reads "Best place to find SFSU tutors for SFSU Students". A search bar with the placeholder "Search for class (e.g. CSC-648)" and a "Go" button is centered. A sub-banner below it says "One of the greatest collection of San Francisco State University experts in 100+ subjects ready to educate you on your time!". The main content area features a section titled "Recently Applied Tutors" over a background image of a modern building. This section displays three tutor profiles, each with a placeholder image, "Full Name" and "Main Subject Proficiency", and a note about the description length. Each profile includes "Contact" and "View" buttons at the bottom.

2. He navigates to the Login page to sign in.

X

## ***Sign In To Your Account***

***Username:***

***Password:***

***Login***

***Dont have an account? Sign Up***

***Forgot Password***

3. Upon logging in, Alex clicks on his Profile icon to bring the dropdown menu and clicks on Dashboard

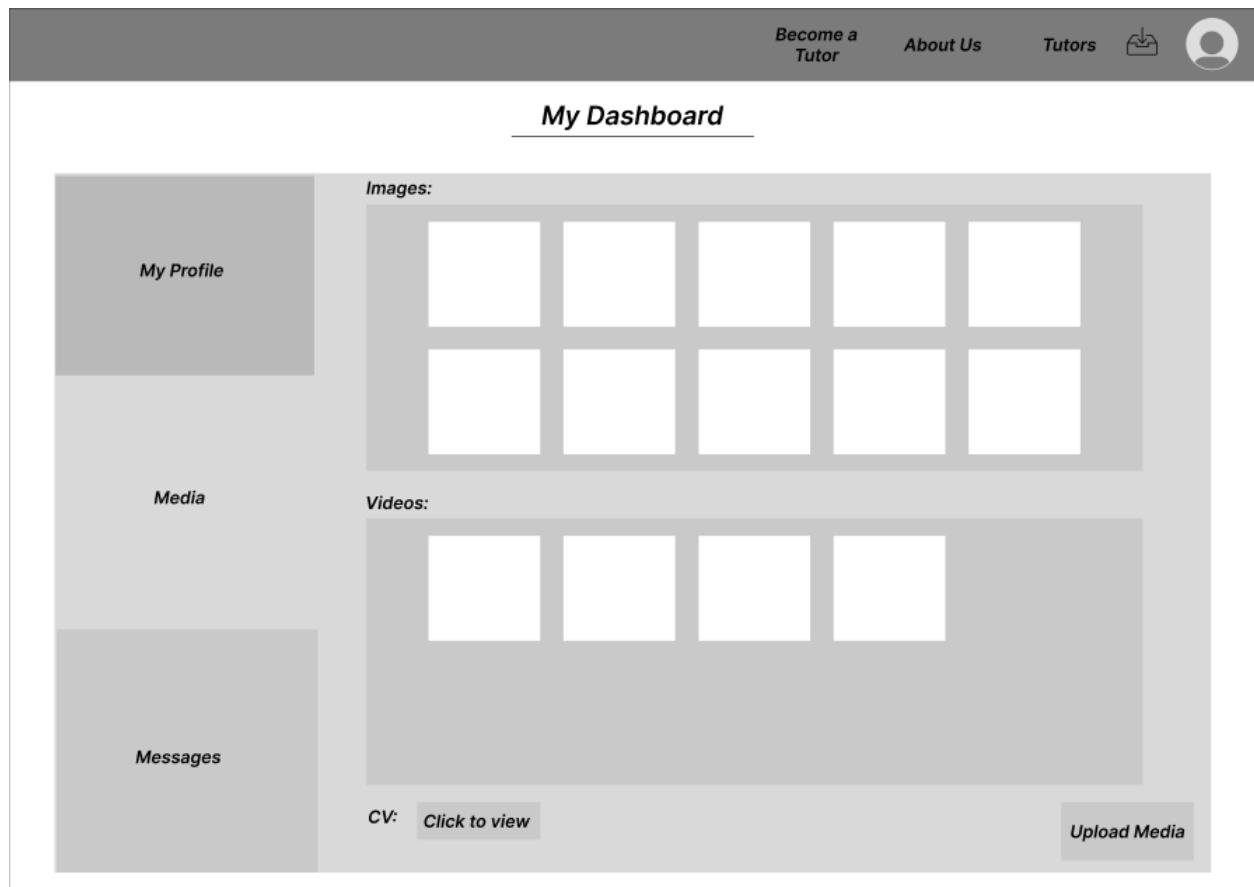
The screenshot shows the Cheep website's dashboard. At the top, there is a navigation bar with links for "Become a Tutor", "About Us", "Tutors" (with a download icon), and a user profile icon. Below the navigation bar, the text "Best place to find SFSU tutors for SFSU Students" is displayed. A search bar with the placeholder "Search for class (e.g. CSC-648)" and a "Go" button is present. A message below the search bar reads: "One of the greatest collection of San Francisco State University experts in 100+ subjects ready to educate you on your time!" The main content area is titled "Recommended Available Tutors". It features three tutor profiles, each with a placeholder image. The first profile on the left has a truncated name and subject proficiency. The middle profile has a full name and subject proficiency, with a note about the description being truncated. The third profile on the right also has a truncated name and subject proficiency.

Name	Main Subject Proficiency	Description
Placeholder	Placeholder	Placeholder
<b>Full Name</b> Main Subject Proficiency	Here would include a small and summarized description of their chosen classes or likes. Nothing long can go here or it won't fit at all.	Placeholder
Placeholder	Placeholder	Placeholder

4. From the Dashboard, Alex can view his profile and also view his messages received from users and also view any uploaded media.

The screenshot shows a user interface for a dashboard. At the top right, there is a dark grey header bar with links for "Become a Tutor", "About Us", "Tutors", a download icon, and a user profile icon. Below the header, the title "My Dashboard" is centered above a horizontal line. To the left, there is a sidebar with three items: "My Profile", "Media", and "Messages". The main content area on the right displays a profile card. The card includes fields for "Full Name" and "Title", followed by a list of topics: "Topics: Math, English, Science, History, Physical Education and more.....etc". Below this is a "Description:" section containing a large amount of placeholder text about a long description. In the bottom right corner of the main content area, there is a button labeled "Edit Profile".

5. Alex views his media and can see the different photos/videos and CV that is uploaded onto their profile.



6. Alex can also see messages sent by users and displays a red dot for new messages.

The screenshot shows a user interface for a platform. At the top right, there is a navigation bar with links: "Become a Tutor", "About Us", "Tutors", a download icon, and a user profile icon. Below the navigation bar, the title "My Dashboard" is centered. On the left side, there are three vertical tabs: "My Profile", "Media", and "Messages". The "Messages" tab is currently selected, indicated by a grey background. To its right is a list of messages from other users:

- From: John Smith** *Confirm Meet Time - I can meet during Monday - Tuesday from 9:00am - 11:00am*
- From: Joe Smuck** *Thank you for the help - I really appreciate the help, I could not have passed without you!*
- From: Alisha Keys** *Do you teach Cs-648 - The class with that website assignment, I wanted to know if....*
- From: Becky Garcia** *Best book for stats - Ms.Claires stats class is a little difficult. Do you have any recommendatio.....*

Below the messages, there are several horizontal grey bars, likely representing more messages that are currently collapsed or listed below the visible area.

## High-level system architecture and technologies used

### I. DB organization:

#### 1. User:

- Id
- First Name
- Last Name
- Email
- Password

#### 2. Tutor

- Id
- Name
- Email
- SubjectID
- CV
- Description
- Photo
- Video (optional)
- Availability Schedule (optional)

### 3. Message

- Id
- SenderID
- RecevierID
- Text

### 4. Subject

- Id
- Name
- Description

## **II. Media Storage:**

Images will be stored in file systems on the server itself. Express static will be used to serve these images on the front end using urls. Relative paths to the images in folder will be used and the root folder will be set for all paths. Main images that will be stored and used are tutors photos and CVs.

## **III. Search architecture and Implementation**

During our search implementation we are going to be using the function of %LIKE. This will enable the user to search terms and find

results that are similar to their search. Search for tutors will be done using a drop down menu of categories and a free text field. The free text field will search through the profile of all tutors using name and description of all tutors in the tutors table. The string the text field will be used in an SQL over the tutors table using %LIKE on both the name field and description. Priority will be given to the name field when running the queries.

## Key Risks

### Skills risk

**Communication Gaps:** Effective communication is critical in a full stack project. We need to collaborate with team members working on different parts of the application. Inadequate communication can lead to misunderstandings, delays, and errors in the integration of various components. A way we resolved this was to share what has been done with everyone. This way we keep everyone updated as well as provide feedback to each other. Trello is another form of communication that we use in order to manage and reduce this risk.

### Schedule risk

**Inefficient Time Management:** Like with all projects, without any proper time management projects can exceed expected deadlines. Different members have separate work, so having a way to manage these tasks is essential. The way we minimize this risk was to use a Trello board. This allows us to see all of our assigned tasks, plus the progress that is being made for them. Another way we manage our time would be through properly analyzing the time it takes to add a feature. This reduces our scope and allows for more time to spend on other section of this project

### Technical risks

**Inadequate Technical Proficiency:** For a lot of us, this is the first time putting together a project like this one. This means we are seeing a lot of new interfaces and tools. When it comes to learning these programs, we get a new set of small problems

that require time to manage. We minimized this risk by choosing programs and coding styles that fit the group's knowledge the best.

### **Legal/content risks**

**ChatGPT:** As we know, not everything that this AI bot says is real. A lot of the data it provides can be made up. Using any of its information for legal documentation or work can create a huge risk for lawsuits. We minimized this risk by using chatgpt in specifically chosen areas throughout this project.

## **Project Management**

For our project, we decided to make a Trello board back during milestone 0. We created a board specifically tailored to our project by organizing it into lists representing different project stages, such as "ToDo," "Doing," and "Done." This helps us track tasks effectively. Each card we created within these lists contained detailed information, including project requirements, due dates, and assigned team members. Moving cards across lists as tasks progressed gave us a clear visual of the project's status. We plan to continue using Trello as our main source for task organization and team management. This is also combined with frequent communication through a discord server.

## **Use of ChatGPT**

We didn't use ChatGPT in this section.

Milestone 3 feedback summary report:

**Team Number:** 5

**Meeting Date:**

**Summary of Feedback on UI**

During the Milestone 3 meeting with Prof. Petkovic, the team received overall positive feedback on the progress of our online tutoring platform for San Francisco State University. The CEO (professor) commended the team for its achievements and acknowledged that we are on the right track.

1. **Dashboard Revision:**

A Small redesign is needed for the dashboard based on Professor Petkovic's feedback.

2. **Search Enhancement:**

Improve search functionality for better user experience.

3. **NavBar Fix:**

Address all issues with NavBar as per feedback from Prof. Petkovic.

#### 4. **Message Functionality Implementation:**

Integrate messaging functionality into the platform.

### **Summary of Feedback on Code and Architecture**

#### 1. **Front-End Refactoring:**

Address any issues related to front-end code quality and structure.

#### 2. **Documentation Improvement:**

Ensure minimal agreed documentation is provided where lacking.

### **Summary of Feedback on GitHub Usage**

#### 1. **Repository Organization:**

The GitHub repository is well organized.

### **Summary of Feedback on Database (DB)**

#### 1. **Database Optimization:**

The Database is well organized.

Address any issues if any, related to database performance and optimization.

## **Summary of Feedback on Teamwork and Risk Management**

### **1. Team Collaboration:**

Team communication is well organized.

### **2. Risk Mitigation Strategies:**

Reevaluate and enhance strategies for addressing potential risks.

## **Architecture Review Confirmation**

Confirmed adherence to MVC pattern.

Coding style conforms to standards.

Minimal agreed documentation is present.

### **Agreed Upon P1 List of Features for Final Delivery**

1. Unregistered Users (students) shall be able to search for tutors by SFSU-specific subject;
2. Unregistered Users (students) shall be able to view details about tutors;
3. Unregistered Users (students or tutors) shall be able to register.
4. Registered Users (students) shall be able to send messages to tutors;
5. Registered Users (students) shall be able to apply to become a tutor;
6. Registered Users (tutors) shall be able to fill out a general description when applying to become a tutor;
7. Registered Users (tutors) shall be able to choose a topic in their application;
8. Registered Users (tutors) shall be able to edit their application;
9. Admins shall be required to approve tutors before tutors are added to the platform;
10. Admins shall be required to approve all posts before they go live on the platform;
11. Admins shall be able to delete tutor posts.

Milestone 4:

**SW Engineering CSC648/848 Fall 2023**

**Project Title: Gators Tutor**

**Team 5**

**Team Members:**

Daivik Purani

Jovanny Ramos

Esau Bojorquez Medina

William Ambriz

Siarhei Pushkin

Akshar Gothi

**Milestone 4**

Document Version	Date submitted	Description
1.0		

## **Table of Contents**

1. Product Summary
2. Usability Test Plan
3. QA Test Plan
4. Peer Code Review
5. Self-check on best practices for security
6. Self-check of the adherence to original Non-functional specs

## **Product Summary**

Name of the Product: Gators Tutor

Gators Tutor is a user-friendly online tutoring platform exclusively designed for San Francisco State University (SFSU) students. Our primary goal is to empower SFSU students by granting them access to experienced tutors across various subjects. The distinctive feature of Gators Tutor is SFSU-specific search. For example, users searching for tutors on Gators Tutor can filter results by SFSU-specific classes, ensuring that they receive personalized support that aligns with their academic curriculum. We also empower SFSU students not only to seek academic assistance but also to become tutors themselves. Gators Tutor is the perfect place for any SFSU student seeking assistance in their classes or wanting to help others and earn extra money. Our user-friendly interface makes signing up as a tutor, searching for a tutor, or scheduling online tutoring sessions effortless.

**Final P1 List:**

1. Unregistered Users (students) shall be able to search for tutors by SFSU-specific subject;
2. Unregistered Users (students) shall be able to view details about tutors,
3. Unregistered Users (students or tutors) shall be able to register.
4. Registered Users (students) shall be able to send messages to tutors;
5. Registered Users (students) shall be able to apply to become a tutor;
6. Registered Users (tutors) shall be able to fill out a general description when applying to become a tutor;
7. Registered Users (tutors) shall be able to choose a topic in their application;
8. Registered Users (tutors) shall be able to edit their application;
9. Admins shall be required to approve tutors before tutors are added to the platform;
10. Admins shall be required to approve all posts before they go live on the platform;
11. Admins shall be able to delete tutor posts.

**Product URL:** <http://3.101.225.46:3000/>

## **Usability Test Plan**

### **Test Objectives:**

The primary objective of this usability test is to evaluate the effectiveness, efficiency, and user satisfaction of the Tutor search function on the Gators Tutor platform. We aim to identify potential usability issues, assess the ease of use for the intended users, and gather subjective feedback to improve the overall user experience.

### **Test Background and Setup:**

### **System Setup:**

The test will be conducted on a standard laptop or desktop computer with a recommended screen resolution of 1920x1080 pixels. Testers should have access to a stable internet connection and use commonly used browsers such as Chrome, Firefox, or Safari.

### **Starting Point:**

Testers will start from the main landing page of the Gators Tutor platform.

### **URL:**

The system to be tested can be accessed at <http://3.101.225.46:3000/>.

**Intended Users:**

The intended users are students and faculty members at San Francisco State University who are looking for tutoring services. Testers should have basic computer skills and familiarity with online search functionalities.

**Test Environment:**

The test can be conducted in a controlled lab setting or remotely from the tester's home. No external cameras or monitoring devices will be used during the test. There is no specific training required before the test.

**Plan for Evaluation of Effectiveness:**

Effectiveness will be measured by users' success rate in finding relevant tutors. This will be determined by tracking the number of successful searches against the total number of attempts.

**Plan for Evaluation of Efficiency:**

Efficiency will be measured by the time taken by users to complete the tutor search task. This includes the time from initiating the search to selecting a tutor.

**Plan for Evaluation of User Satisfaction (Likert Scale Questionnaire):****A. Usability Task Description:**

1. Log in to the San Francisco State University platform.
2. Navigate to the Tutor search function.
3. Search for a tutor in a specific subject area.
4. Review the tutor profiles and select one.
5. Provide feedback on the overall experience.

**B. Likert Scale Evaluation Entries:****Task Clarity:**

How clear were the instructions for the tutor search task?

- (1) Not clear at all
- (2) Slightly clear
- (3) Moderately clear
- (4) Very clear
- (5) Extremely clear

**Task Completion:**

How easy was it to find and select a tutor?

(1) *Very difficult*

(2) *Difficult*

(3) *Neutral*

(4) *Easy*

(5) *Very easy*

**Overall Satisfaction:**

How satisfied are you with the overall tutor search experience?

(1) *Very dissatisfied*

(2) *Dissatisfied*

(3) *Neutral*

(4) *Satisfied*

(5) *Very satisfied*

## QA Test Plan

### **Test Objectives:**

The objective of this section would be to test specific parts about our system to analyze overall functionality.

### **HW and SW Setup:**

**LINK:** <http://3.101.225.46:3000/>

**Markup languages:** HTML, CSS, JSON

**Database System:** MySQL (v8.0.33)

**Server Host:** AWS

**Operating System:** Ubuntu;

**Platform details:** Linux/UNIX;

**Web Analytics:** Google Analytics

**IDE:** Microsoft Visual Studio Code

**SSL Cert:** Let's Encrypt

### **Features to be Tested:**

- Search Bar
- Contact
- Register
- Sign In
- Sign Up

\*WILL BE TESTED ON CHROME\*

CASE:	1	2	3	4	5
Name:	Contact	Search Bar	Sign In	Register	Sign Up
Results	Pass	Pass	Pass	Pass	Pass
Input	Straight from our home page, there should be a contact button on each of our tutor's cards. This button will be clicked and the user will be taken to a tutor information page.	Users will type in the name of a course "CSC 648," and click on Search. This should prompt	When the user is on our main page, they will click on the profile icon. This will prompt the dropdown menu and the user will click sign in. They will then sign in with their account.	An unregistered user will go to sign up and create a new account on that page. The link to sign up will be in the dropdown menu that is reachable via clicking profile picture.	When the user is on our main page, they will click on the profile icon. This will prompt the dropdown menu and the user will click sign up. They will then sign up with a new account.
Expected Results	For the expected output of test number 1, we should see a very easy to use contact button or view details button that promptly reveals any needed information about a tutor.	The expected result would be the user getting redirected to search page and results appearing for the class searched.	A successful login of a user is pretty standard.. Once the user enters the proper information they will then be redirected to the home page.	A successful registration of a user should look like a normal process. Once the user enters the proper information they will then be redirected to the home page.	We expect to see the new already signed in when then successfully create an account.

Description	This test will determine the reachability of the contact via our tutor contact button.	The search bar test will determine how well we can search for a tutor and if we can get results.	This test will show if a registered user can access their account via the sign in button.	This test will show if an unregistered user can create their new account via the sign in button.	This test will show how well the intended purpose of recently applied tutors works.
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## **Self-check on best practices for security**

### **1. Password Encryption:**

We want to ensure that our users' information remains secure and protected. Therefore, we have implemented strong password encryption mechanisms to encrypt all user passwords before storing them in our database. This security measure guarantees that sensitive user credentials such as passwords remain safeguarded in the event of a security breach.

### **2. Form Validation for SQL Injection Prevention:**

We utilize robust form validation techniques to guard against SQL injection attacks. By validating user inputs on both the client and server sides, we protect against the injection of malicious SQL code into our database queries. This preventive measure significantly strengthens the overall security of our application, safeguarding against potential exploits.

### 3. Product Screen Shots

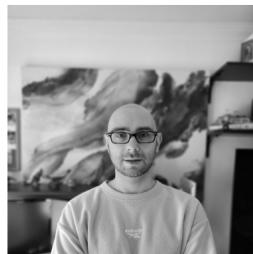
#### Home page

The screenshot shows the Cheep website's home page. At the top, there is a navigation bar with the logo "Cheep", a dropdown menu set to "All", a search bar containing "Search for class (e.g. CSC-648)", a "Go" button, and links for "Become a Tutor", "About Us", and a user icon. Below the navigation is a section titled "Recently Applied Tutors". This section displays a grid of three tutor profiles, each consisting of a placeholder profile picture, the labels "Full Name", "Profession", and "Description", and a "Contact" button. The background of this section is a grayscale photograph of a modern building's exterior.

#### About Us Page

The screenshot shows the Cheep website's "About Us" page. At the top, there is a navigation bar with the logo "Cheep", a dropdown menu set to "All", a search bar containing "Search for class (e.g. CSC-648)", and links for "Become a Tutor", "About Us", "Tutors", and a user icon. The main content area features a title "Software Engineer Class SFSU" and a subtitle "<Fall , 2023>". Below this, it says "Team 05 | Section 03". There are four profile cards, each with a placeholder photo, the name, and the role. From left to right:

- Daivik Purani**  
Team Lead
- Jovanny Ramos**  
Front End Lead
- William Ambriz**  
GitHub Master
- Akshar Gothi**  
Back End Lead



Siarhei Pushkin  
Documentation



Esau B. Medina  
Documentation

Gators Tutor - 2023

## About Daivik Page

*Cheep*

Go Back <

[Become a Tutor](#) [About Us](#) [Tutors](#)

**Daivik Purani**  
Team Lead

*Hello! I'm the Tech Lead for this project. I am passionate about solving complex problems with code. Skilled in Python, Java, and JavaScript, I thrive in collaborative environments and love staying at the cutting edge of technology. I love reading books in my free time and hiking outdoors. My favourite book is Atomic Habits by James Clear*

## About Jovanny Page

*Cheep*

Go Back <

[Become a Tutor](#) [About Us](#) [Tutors](#)

**Jovanny Ramos**  
Front End Lead

*My name is Jovanny Ramos and I am the active Front End Lead of this project. I have worked with C, C++, HTML, Python, Java, Javascript, SQL, Scheme but have the most experience in Java, C and HTML. I enjoy playing games on my time off and love to draw. When I have nothing to do, I'll walk around my neighborhood and play Pokemon Go. I take pride in getting a Vorkath and Mole Pet under drop rate :3 if you know, you know.*

## About William Page

*Cheep*

Go Back <



**William Ambriz**  
GitHub Master

*I'm the GitHub Master for the team. Hopefully, I will be graduating this semester and be the first college graduate in my family. I have experience programming in C++, C, Java, Python, Javascript, HTML/CSS, MySQL. On my spare time, I enjoy playing video games, hanging out with friends, or just relaxing at home.*

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## About Akshar Page

*Cheep*

Go Back <



**Akshar Gothi**  
Back End Lead

*My name is Akshar Gothi and I am the active Back End Lead of this project. I developed numerous projects using multiple languages such as php, python, javascript, java, c++ and many more. I worked as software developer in IT industry for 2 years. While working, I get knowledge about some third party tools which helps to manage customer, tools like emarsys, zoho, etc.*

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## About Siarhei Page

*Cheep*

Go Back <



**Siarhei Pushkin**  
Documentation

*My name is Siarhei Pushkin. I'm working on documentation for this project. I'm passionate about coding (mostly experienced in C and Java) and love working with computer hardware.*

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## About Esau Page

**Cheep**

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**Esau B. Medina**  
Documentation

*Hello, I am currently a 4th year at SFSU. I am working on Documentation for this project! I have a bit of experience with the following languages: Java, c++, C, HTML/CSS, python, JavaScript, MIPS assembly, MYSQL. I hope to learn a lot through this project!*

Go Back <

## Using Search Page

**Cheep**

All  Search for class (e.g. CSC-648)

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Results: 25-28 out of 41

◀ 7 / 11 ▶

	<b>Lucy Green</b> <i>lgreen@sfsu.edu</i> ZXCV	<input type="button" value="Contact"/>		<b>Bob Johnson</b> <i>bjohnson@sfsu.edu</i> <i>faucibus. Morbi vehicula.</i>	<input type="button" value="Contact"/>
	<b>Rachel Zane</b> <i>rzane@sfsu.edu</i> <i>non, feugiat</i>	<input type="button" value="Contact"/>		<b>Charlie Brown</b> <i>cbrown@sfsu.edu</i> <i>acbasdas</i>	<input type="button" value="Contact"/>

## Tutor Contact Page

**Cheep**

All  Search for class (e.g. CSC-648)

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	<b>Lucy Green</b> <b>Topics: math</b> <b>Email: lgreen@sfsu.edu</b> <i>Time Availability: vitae odio sagittis</i> <i>ZXCV</i>
--	---

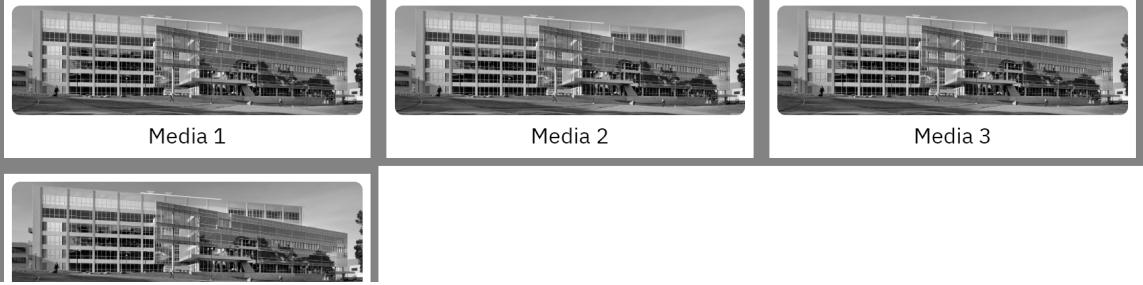
**Cheep**

All  Search for class (e.g. CSC-648)

Become a Tutor About Us 

Hello Tutor...

**Media:**



Media 1      Media 2      Media 3

Media 4

## User Sign Up Page

**Cheep**

All  Search for class (e.g. CSC-648)

Become a Tutor About Us 

### Sign Up Application

\* **First Name**

\* **Last Name**

\* **Email Address (SFSU)**

\* **Student ID #**

\* **Password**

\* **Confirm Password**

**Cheep**

All  Search for class (e.g. CSC-648)

[Become a Tutor](#) [About Us](#) 

**\* Email Address (SFSU)**

**\* Student ID #**

**\* Password**

**\* Confirm Password**

\* *Accept Terms and Conditions*

Have an account? [Sign In](#)

Gators Tutor - 2023

## Sign In Page

**Cheep**

All  Search for class (e.g. CSC-648)

[Become a Tutor](#) [About Us](#) 

**Sign In to your Account**

**\* Username**

**\* Password**

Don't have an Account? [Sign-up](#)

[Forgot Password](#)

## DashBoard

The screenshot shows the 'My Dashboard' page of the Cheep application. At the top, there is a search bar with dropdown options ('All') and a search input field ('Search for class (e.g. CSC-648)'). To the right of the search bar are links for 'Become a Tutor' and 'About Us'. On the far right, there is a user profile icon.

The main content area is titled 'My Dashboard' and contains a 'Messages' section. The 'Messages' section has a header and four message items, each consisting of a small user icon, the recipient's name ('Student Name'), and placeholder text ('Last message text here...').

The left sidebar has three buttons: 'My Profile', 'Media', and 'Messages', with 'Messages' being the active tab.

## 4. Database Organization

### I. DB organization:

#### 5. User:

- Id
- First Name
- Last Name
- Email
- Password

#### 6. Tutor

- Id
- Name
- Email
- SubjectID
- CV
- Description
- Photo
- Video (optional)
- Availability Schedule (optional)

#### 7. Message

- Id

- SenderID
- RecevierID
- Text

#### 8. Subject

- Id
- Name
- Description

## Screenshots of Tables

```

mysql> show tables;
+-----+
| Tables_in_se_tutoringsite |
+-----+
| Category      |
| Message       |
| Topic         |
| Tutor          |
| User           |
+-----+
5 rows in set (0.02 sec)

mysql> select * from Category;
+----+-----+-----+-----+-----+
| Id | Name   | Description | CreatedBy | ModifiedBy |
+----+-----+-----+-----+-----+
| 1  | Education | Education | 2023-12-13 08:42:06 | 2023-12-13 08:42:06 |
| 2  | Environment | Environment | 2023-12-13 08:50:18 | 2023-12-13 08:50:18 |
+----+-----+-----+-----+-----+
2 rows in set (0.03 sec)

mysql> select * from Message;
+----+-----+-----+-----+-----+-----+
| Id | SenderId | RecevierId | Text          | Createdby | Modifiedby |
+----+-----+-----+-----+-----+-----+
| 1  | 1        | 2          | Hello         | NULL      | 2023-12-05 04:53:38 |
| 2  | 42       | 16         | Hello1        | 2023-12-05 05:02:47 | 2023-12-05 05:02:47 |
| 3  | NULL     | NULL       | Hello Tutosfhgsr... | 2023-12-13 10:35:53 | 2023-12-13 10:35:53 |
| 4  | NULL     | NULL       | Hello Tutor...sdfshgjmhftr | 2023-12-13 10:36:48 | 2023-12-13 10:36:48 |
| 5  | NULL     | NULL       | Hello Tutor... This is hovanny | 2023-12-13 10:37:23 | 2023-12-13 10:37:23 |
| 6  | 73       | 16         | Hello Tutor...this is Esau | 2023-12-13 10:45:40 | 2023-12-13 10:45:40 |
| 7  | 16       | 73         | Hello Tutor...This is william | 2023-12-13 10:54:56 | 2023-12-13 10:54:56 |
| 8  | 17       | 73         | Hello Tutor...Please give me good help | 2023-12-13 11:34:59 | 2023-12-13 11:34:59 |
| 9  | 17       | 73         | Hello Tutor...Timmy Turner | 2023-12-13 11:36:20 | 2023-12-13 11:36:20 |
| 10 | 17       | 73         | Hello Tutor...Here is a skull | 2023-12-13 11:37:16 | 2023-12-13 11:37:16 |
| 11 | 31       | 73         | Hello Tutor...hthislk | 2023-12-13 11:41:49 | 2023-12-13 11:41:49 |
| 12 | 31       | 73         | Hello Tutor...gshtw34rtshgr | 2023-12-13 11:46:40 | 2023-12-13 11:46:40 |
+----+-----+-----+-----+-----+
12 rows in set (0.02 sec)

mysql> select * from Topic
-> ^C
mysql> select * from Topic;
+----+-----+-----+-----+-----+
| Id | Name   | CategoryID | Description | Createdby | ModifiedBy |
+----+-----+-----+-----+-----+
| 1  | math    | 1          | math        | 2023-12-13 08:45:07 | 2023-12-13 08:45:07 |
| 2  | physics | 1          | physics     | 2023-12-13 08:47:41 | 2023-12-13 08:47:41 |
| 3  | history | 1          | history     | 2023-12-13 08:47:41 | 2023-12-13 08:47:41 |
+----+-----+-----+-----+-----+
3 rows in set (0.02 sec)

mysql>
```

```
mysql> select * from Tutor;
+---+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Id | Name      | Email        | Topicid | Cv          | Description    | Photo          | Schedule       | Createdby     | Modifiedby   |
+---+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Akshar Gothi | agothi@sfsu.edu | physics | semper     | abc           | akshargothi.jpeg | mauris elit, | 2023-10-22 00:58:44 | 2023-10-22 00:58:44 |
| 2 | Daivik Purani | dpurani@sfsu.edu | physics | luctus vulputate, nisi | abcdefg       | daivikpurani.jpeg | In mi         | 2023-10-22 00:58:44 | 2023-10-22 00:58:44 |
| 3 | Alice Smith | asmith@sfsu.edu | math     | venenatis lacus. Etiam | et magnis     | alicesmith.jpeg | Morbi         | 2023-10-22 00:58:44 | 2023-10-22 00:58:44 |
| 4 | Lucy Green | lgreen@sfsu.edu | math     | consequat, lectus sit | zxvc          | lucygreen.jpeg | vitae odio sagittis | 2023-10-22 00:58:44 | 2023-10-22 00:58:44 |
| 5 | Bob Johnson | bjohnson@sfsu.edu | biology | Curae Donec tincidunt. | faucibus. Morbi vehicula. | bobjohnson.jpeg | Sed           | 2023-10-22 00:58:44 | 2023-10-22 00:58:44 |
| 6 | Rachel Zane | rzane@sfsu.edu | biology | suscipit, est ac | non, feugiat | rachelzane.jpeg | leo,           | 2023-10-22 01:00:01 | 2023-10-22 01:00:01 |
| 7 | Charlie Brown | cbrown@sfsu.edu | history | et, rutrum eu, | acbasadas     | charliebrown.jpeg | In nec         | 2023-10-22 01:00:01 | 2023-10-22 01:00:01 |
| 8 | Tom Ford | tford@sfsu.edu | history | Nulla eget metus | dapibus id, blandit | teford.jpeg     | mauris eu elit. | 2023-10-22 01:00:01 | 2023-10-22 01:00:01 |
| 9 | David Lee | dlee@sfsu.edu | geography | velit. Pellentesque ultricies | ipsum dolor | davidlee.jpeg | Cum sociis     | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 10 | Nancy Drew | ndrew@sfsu.edu | geography | Curabitur | id, mollis nec, | nancydrew.jpeg | ipsum. Donec sollicitudin | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 11 | Eve Adams | eadams@sfsu.edu | astrology | tincidunt, neque | Donec est.     | eveadams.jpeg | viverra.       | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 12 | Sam Fisher | sfisher@sfsu.edu | astrology | est, mollis non, | arcu ac       | samfisher.jpeg | gravida nunc | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 13 | Frank Williams | fwilliams@sfsu.edu | philosophy | Donec luctus | nunc. In       | frankwilliams.jpeg | quis turpis | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 14 | Olivia Wilde | owilde@sfsu.edu | philosophy | risus. | dis parturient | oliviawilde.jpeg | dolor vitae | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 15 | Grace Jones | gjones@sfsu.edu | english | vitae | Fusce          | gracejones.jpeg | facilisis facilisis, | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 16 | Paul Allen | palen@sfsu.edu | english | sem magna | nisi           | paulallen.jpeg | tempus          | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 17 | Harry Turner | hturner@sfsu.edu | economics | mi lacinia mattis. | lorem. Donec | harryturner.jpeg | risus. In mi | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 18 | Quinn Fabray | qfabray@sfsu.edu | economics | fermentum arcu. Vestibulum | augue. Sed | quinmfabray.jpeg | est. Nunc ullamcorper, | 2023-10-22 01:00:04 | 2023-10-22 01:00:04 |
| 19 | akass | dada@gmail.co | 3 | fsfs | gdsgds | gdsg | gdsg | 2023-12-05 03:15:39 | 2023-12-05 03:15:39 |
| 20 | undefined | sfdfvc@gmail.com | NULL | NULL | NULL | NULL | NULL | 2023-12-12 05:56:18 | 2023-12-12 05:56:18 |
| 21 | undefined | sfdfvc@gmail.com | NULL | NULL | NULL | NULL | NULL | 2023-12-12 05:59:44 | 2023-12-12 05:59:44 |
| 22 | undefined | sfdfvc@gmail.com | NULL | NULL | NULL | NULL | NULL | 2023-12-12 06:00:14 | 2023-12-12 06:00:14 |
| 23 | undefined | NULL | NULL | NULL | NULL | NULL | NULL | 2023-12-12 06:54:31 | 2023-12-12 06:54:31 |
|
```

```
mysql> select * from User;
+---+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | Firstname | Lastname | Username | Email        | Password          | Createdby     | Modifiedby   |
+---+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | akshar | gothi | akshar27 | akshargothi5678@gmail.com | Askhsksk | 2023-12-04 02:53:27 | 2023-12-04 02:53:27 |
| 2 | akshar | gothi | akshar2709 | akshargothi7@gmail.com | $2a$10$0Fvfjjs0gXOMgYT.hmL5Bo.WvI | 2023-12-11 04:55:45 | 2023-12-11 04:55:45 |
| 3 | akshar | gothi | akshar2709 | akshar.gothi@gmail.com | $2a$10$BSe1yh7CzI4idM1ml2kvOruz | 2023-12-11 05:11:32 | 2023-12-11 05:11:32 |
| 4 | Jack | Black | 121212 | svfdfvc@gmail.com | 1323421342dfc | 2023-12-12 08:01:04 | 2023-12-12 08:01:04 |
| 5 | daivik | purani | dpurani | dpurani@gmail.com | $2a$10$2/rve0BjgDcs20jEloGyuDeF | 2023-12-12 22:00:19 | 2023-12-12 22:00:19 |
| 6 | Jack | Black | 121212 | svfdfvc@gmail.com | 1323421342dfc | 2023-12-13 00:50:21 | 2023-12-13 00:50:21 |
| 7 | dvdfvc | eee | 121212 | svfdfvc@gmail.com | $2a$10$cgH01EzyBFMER.7UrLQ_0_6vF | 2023-12-13 00:59:58 | 2023-12-13 00:59:58 |
| 12 | game | name | 123123123 | email@email.com | $2a$10$DEMhunNSMj08KnjSFMiZh.dhw | 2023-12-13 03:14:35 | 2023-12-13 03:14:35 |
| 43 | first | last | 123456789 | abcd | $2a$10$SuL9gkP3Dyzm4e190sBpe7U4 | 2023-12-13 03:18:02 | 2023-12-13 03:18:02 |
| 44 | mmm | m | mmm@mmm.mmm | mmm@mmm.mmm | $2a$10$ORJ8BrtrDvd.mk18/Ygymu5DM | 2023-12-13 03:18:07 | 2023-12-13 03:18:07 |
| 45 | mmm | m | mmm@mmm.mmm | mmm@mmm.mmm | $2a$10$97rmwpu1eleINSntXghsuaz2 | 2023-12-13 03:19:00 | 2023-12-13 03:19:00 |
| 46 | dfcs | sdfsf | aaad@aa.aad | aaad@aa.aad | $2a$10$YTCoy2zmPD/7r2hLUtgqdxba | 2023-12-13 03:19:00 | 2023-12-13 03:19:00 |
| 47 | dfcs | sdfsf | aaad@aa.aad | aaad@aa.aad | $2a$10$5Uv7uzaD7581.0$Int.fJ02rp | 2023-12-13 03:19:43 | 2023-12-13 03:19:43 |
| 48 | first | last | 123456789 | abcdefg | $2a$10$S10Sc10bJCen5Dr.RhC2qWzIu0lR | 2023-12-13 03:23:51 | 2023-12-13 03:23:51 |
| 50 | game | name | 123123123 | email@email.com | $2a$10$C10bJCen5Dr.RhC2qWzIu0lR | 2023-12-13 03:29:42 | 2023-12-13 03:29:42 |
| 51 | hhh | hhh | hhbh@hhh.hhh | hhbh@hhh.hhh | 1 | 2023-12-13 03:40:13 | 2023-12-13 03:40:13 |
| 52 | hhh | hhh | hhbh@hhh.hhh | hhbh@hhh.hhh | 1 | 2023-12-13 03:40:13 | 2023-12-13 03:40:13 |
| 53 | fger | erger | 12312312 | email@email.com | $2a$10$MV0j1jeI11xs.Fz42GtIQemUB | 2023-12-13 03:42:22 | 2023-12-13 03:42:22 |
| 54 | fger | erger | 12312312 | email@email.com | $2a$10$WQ3M.NYncaxA6EB0NwdpXud | 2023-12-13 03:42:22 | 2023-12-13 03:42:22 |
| 55 | jovi | jovi | 1231223 | myemail@gmail.com | $2a$10$VpQH4xUaCM.UYPMlyhD2uPAX | 2023-12-13 03:49:43 | 2023-12-13 03:49:43 |
| 56 | jovi | jovi | 1231223 | myemail@gmail.com | $2a$10$YANUEkjauXAgroyEyv5be | 2023-12-13 03:49:43 | 2023-12-13 03:49:43 |
| 57 | nommy | bayb | 123124 | bab@gmail.com | $2a$10$hdXigh/G18ql4IVcqzX.r.cpu | 2023-12-13 04:19:58 | 2023-12-13 04:19:58 |
| 58 | nommy | bayb | 123124 | bab@gmail.com | $2a$10$SM8omE0fy3cc5rxyebug.x0m | 2023-12-13 04:19:58 | 2023-12-13 04:19:58 |
| 59 | hmvhjv | mbmb | newunmbvser2@ema | newunmbvser2@email.edu | 1 | 2023-12-13 04:40:15 | 2023-12-13 04:40:15 |
| 60 | hmvhjv | mbmb | newunmbvser2@ema | newunmbvser2@email.edu | 1 | 2023-12-13 04:40:15 | 2023-12-13 04:40:15 |
| 61 | game | name | email@email.com | email@email.com | password | 2023-12-13 04:42:59 | 2023-12-13 04:42:59 |
| 62 | beeb | bubub | boob@gmail.com | boob@gmail.com | byyb | 2023-12-13 04:45:51 | 2023-12-13 04:45:51 |
| 63 | beeb | bubub | boob@gmail.com | boob@gmail.com | byyb | 2023-12-13 04:45:51 | 2023-12-13 04:45:51 |
| 64 | baby | nicki | baby@gmail.com | baby@gmail.com | check | 2023-12-13 04:59:40 | 2023-12-13 04:59:40 |
| 65 | yash | patel | ypatel4 | ypatel@gmail.com | $2a$10$3TAFe7Sj0oDAYxoMqoJu1e0Ms/.auj.60S5ZQg0RYwkoYDg0xcC | 2023-12-13 07:23:15 | 2023-12-13 07:23:15 |
| 66 | jonny | smith | 1234123412 | jjay@gmail.com | $2a$10$041aysw/fg8Q01nx8/C4beze9aNQnUXdgUefpNG5pdQ0Q/V9tuzq | 2023-12-13 07:38:51 | 2023-12-13 07:38:51 |
| 67 | jonny | smith | 1234123412 | jjay@gmail.com | $2a$10$85V1wZFBwQyFQ2mJMcGehWwh/eIpNPcuM0VLAdqkDB76362m | 2023-12-13 07:38:53 | 2023-12-13 07:38:53 |
| 68 | game | name | 123123123 | email@email.com | $2a$10$2GjrFSkEb.kJUh/a.oouq8cdgde/Y6SKTAeyBxD.DV657X9kbS | 2023-12-13 07:48:23 | 2023-12-13 07:48:23 |
| 69 | grea | gr | willy@sfsu.edu | willy@sfsu.edu | willy | 2023-12-13 07:51:21 | 2023-12-13 07:51:21 |
| 70 | billy | bob | billy@sfsu.edu | billy@sfsu.edu | billy | 2023-12-13 07:54:45 | 2023-12-13 07:54:45 |
| 72 | billy | bob | billy@sfsu.edu | billy@sfsu.edu | billy | 2023-12-13 07:54:45 | 2023-12-13 07:54:45 |
| 73 | Newnam | Notnew | 12341234 | newuser@gmail.com | $2a$10$ghVJB7vI/43S.2Q6d1FBve96eNuL3GSN72H4m51m.Y10Uvk900WW2 | 2023-12-13 08:00:28 | 2023-12-13 08:00:28 |
| 75 | fesf | gregrea | silly@sfsu.edu | silly@sfsu.edu | silly | 2023-12-13 08:19:48 | 2023-12-13 08:19:48 |
| 76 | fesf | gregrea | silly@sfsu.edu | silly@sfsu.edu | silly | 2023-12-13 08:19:48 | 2023-12-13 08:19:48 |
| 77 | t | t | 1 | t@gmail.com | $2a$10$IRHgLC.ab5Ak9VE0T5c/ke0e/cc12.Nw6Tq09Cfq72eb52kd/fSLW | 2023-12-13 21:16:00 | 2023-12-13 21:16:00 |
| 78 | t | t | 1 | t@gmail.com | $2a$10$Jeno6VLV20RtLc36NTF9uIy61s0jpqaHyp1wnrfwAqV89CGzS6 | 2023-12-13 21:16:02 | 2023-12-13 21:16:02 |
| 79 | test | test | 123 | test@sfsu.edu | $2a$10$2cz5cy.cIB9chwrBuxne4nTCSF5tmRohE733tf8ekndYmqHr0 | 2023-12-13 21:51:48 | 2023-12-13 21:51:48 |
| 80 | test | test | 123 | test@sfsu.edu | $2a$10$Z330jrCamu4Z.MT8oyP0BuW6g/HueWL790f5Z0xxV/cfGA7n7/K56 | 2023-12-13 21:51:50 | 2023-12-13 21:51:50 |
|
```

44 rows in set (0.02 sec)

mysql> |

## 5. Github organization

### Branches:

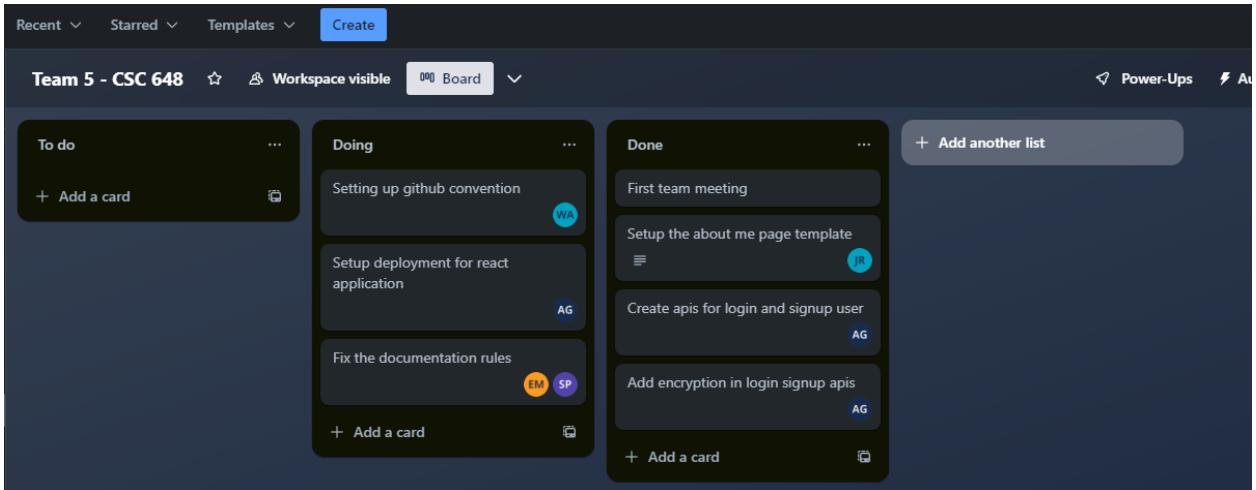
Default		
Branch		
main	🔗	!
Your branches		
Branch		
feature/navSearchBar	🔗	
feature/tutorInfo	🔗	
feature/TutorInfo	🔗	
Active branches		
Branch		
feature/navSearchBar	🔗	
backend-apis	🔗	
fix/fix-auth	🔗	
feature/vertical-prototype	🔗	
feature/tutorInfo	🔗	

Updated	Check status	Behind	Ahead	Pull request
2 months ago				Default
<a href="#">More branches &gt;</a>				
16 minutes ago		0   92		🔗 ⋮
3 days ago		0   27		🔗 ⋮
last month		0   4		🔗 ⋮
Updated	Check status	Behind	Ahead	Pull request
16 minutes ago		0   92		🔗 ⋮
3 hours ago		0   28		🔗 ⋮
18 hours ago		0   70		🔗 ⋮
2 days ago		0   29		🔗 ⋮
3 days ago		0   27		🔗 ⋮

## **6. Google Analytics stats**

Our project does not utilize Google Analytics to ensure user privacy and minimize third-party data tracking.

## 7. Project management



During our initial milestone (Milestone 0), we opted to establish a Trello board as the cornerstone of our project management strategy. Crafting a board tailored specifically to our project needs, we meticulously structured it with distinct lists delineating various project stages – think "ToDo," "Doing," and "Done." This ingenious arrangement serves as our compass for tracking tasks with precision.

Within these lists, each card boasts a wealth of information, encapsulating project requirements, due dates, and designated team members. The act of seamlessly maneuvering cards across lists as tasks evolve provides us with an intuitive and illuminating visual representation of the project's status and progress.

Our commitment to Trello as the central hub for task organization and team coordination remains steadfast. It harmoniously integrates with our robust communication framework, primarily orchestrated through a dedicated Discord server. This synergistic approach ensures seamless collaboration and a comprehensive grasp of our project's intricacies.

## 8. Team member self-assessment and contributions

- Esau's Email

X Close | Previous Next

Team member Self-assessment- Esau B. Medina

To: Davik Manishkumar Purani, Akshar Shrivambhai Gothic, William Ambriz, Siarhei Pushkin, Jovanny Ramos

Wed 12/13/2023 1:01 PM

Hello Team,  
Here is my self-assessment:

List of Contribution:

- Documentation for most Milestones
- Worked on variety of js pages and css styling for different elements
- CardTemplate
- EsauBMedina
- TutorInfo
- TutorCard
- NavMenu
- Index
- Index.css
- aboutStyle
- tutorStyle

Number of commits:

- 18 commits (non-merge type) and 23 total for my github username: Esau4119.

Main Challenge:

- One of the main challenges that we encountered was trying to get our APIs implemented and working flawlessly. Sometimes our machines would not connect to the backend, or data would not be passed in correctly. This made the functionality between frontend and backend nonuniform for a small amount of time. We were able to overcome this challenge easily by working together on both ends. This is apart from all the syntax and user Errors that we come across on a normal basis.

What I would do better?

- Something I would do better would be communicate my issues with my team. Occasionally I would stumble upon a very difficult issue, and would try to solve it on my own for an extended amount of time. While this is normal, it can be bad practice, as another team member may encounter that same issue and would require the same solution.

Anything else Important?

- I had a lot of fun making this project. I was inspired by my team's great efforts and their work ethic. This experience has been entertaining to say the least.

## - Siarhei's Email

**Team-member Self assessment**

Siarhei Pushkin  
To: Daivik Manishkumar Purani; Jovanny Ramos; William Ambriz; Akshar Shivrambhai Gothi; Esau Bojorquez-Medina

Wed 12/13/2023 1:02 PM

**a) Contributions:**

I helped successfully implement front-end elements, contributing to enhancing the platform's user interface. I created Sign-in and Sign-up pages (for Tutors and Students), created a couple of react components, and worked on CSS styling for multiple pages. Additionally, I helped improve and refine the search logic on the front end to provide a better user experience and streamline information retrieval. Furthermore, I also helped to create documentation for the project, ensuring clarity and ease of understanding for all team members. I worked on multiple pages, including:

- SignIn,
- SignUp,
- SignUpStudent,
- TutorsSearchBox,
- Dropdown,
- signupStyle
- tutorsStyle

**b) Github Submissions:**

I have been actively contributing to the development branch on GitHub, submitting numerous commits in support of the collaborative development process. My username is "spushkin," and my overall commits count is 21.

**c) Main Challenges:**

Coordinating the front-end components with other developers for seamless integration into the overall architecture was challenging. Learning how to synchronize the front-end and back-end functionalities was tricky, but our team's strong communication and collaboration skills helped me overcome these challenges. I am grateful to my teammates for their prompt responses and willingness to help and share ideas.

**d) Areas for Improvement:**

In future projects, I would prioritize early and regular communication with other developers to promptly address any integration challenges I encounter. Better coordination can lead to a more cohesive system and reduce the likelihood of failure during development. Utilizing Agile principles, such as daily stand-ups, can effectively enhance team collaboration for any project.

**e) Additional Information:**

Working on this project has been an incredibly positive experience that has offered me valuable opportunities for learning and growth. Collaborating with the team has exposed me to various aspects of front-end development, from crafting user interfaces to enhancing search logic. The challenges we encountered became valuable learning points, contributing to my skill set and problem-solving abilities. The positive atmosphere within the team fostered an environment of continuous learning, and our collective efforts resulted in a project that reflects our shared commitment to excellence. This experience has advanced my technical skills and enhanced my appreciation for effective teamwork.

## - Jovanny's Email

JR Jovanny Ramos  
To: Daivik Manishkumar Purani; Akshar Shivrambhai Gothi; Esau Bojorquez-Medina; William Ambriz; Starhei Pushkin

Good Morning Team,  
Here is my self-assessment.

I contributed the following:

- I am the Front-end Lead which put me in charge of reviewing all the front-end code which includes all visible pages:
  - sign-in
  - sign-up
  - dashboard
  - about me
  - home page
  - tutor search
- I was in charge of gathering all the tasks required for our front-end through each milestone and assigning it to other members within the team
- Worked alongside all Documentation members and GitHub Master to make sure the product is being pushed correctly and everyone's on track
- I worked with Back-end Lead to implement API calls using:
  - GetUser.js
  - CreateUser.js
  - GetMessage.js
  - CreateMessage.js
  - GetTopic.js
- I created the wireframes which were the initial designs of the website
- The pages I worked on specifically are:
  - Template.js
  - navMenu.js
  - JovannyRamos.js
  - Index.js
  - About.js
  - Dashboard.js
  - Dashboard.css
  - navStyle.css
  - signupStyle.css
  - aboutStyle.css
  - queries.js
  - app.js (backend)

◦ app.js (backend)  
◦ SignUpStudent.jsx

My commit count is 49 commits (47 ItsJeff510 + 2 Jovanny Ramos). I was Front-end Lead so it was expected to have a high commit count compared to my other team members.

The most prominent challenge I would run into while working in front-end is never having the CSS Styling work exactly how I want it to work. It could be something as simple as not being able to center align the elements to something more complex like making a responsive navigation bar. One huge challenge was working with the APIs as prior to this course, I had very little interaction with them. It took a lot of trial and error to figure out exactly how an API works and what method calls to use. Another issue was scheduling conflicts with members within the team as everyone had different schedules so we could only meet during one time frame on Monday, and sometimes not everyone could make it to the meetings.

In the future, scheduling should be enforced more as many of the products felt at the very last minute even when they were assigned ahead of time. While the pages themselves were eventually turned in, usually it'd be an hour or two after the initial set time, but it was not a huge issue. Another thing could be communication as a lot of the time, we did not have a definite answer on a question that was asked the day before.

## -William's Email

 **William Ambriz**  
To: Dragutin Petkovic; Esau Bojorquez-Medina; Daivik Manishkumar Purani; Akshar Shrivambhai Gothic; Jovanny Ramos; Siarhei Pushkin

Wed 12/13/2023 2:54 PM

A) Contribution:

- As the GitHub master, I tried my best to manage my teams' branches.
- I tested people's branches, to check if it wouldn't break anything.
- Worked with Documentation on GitHub practices.
- Tried to manage people merge conflicts.
- Also assisted with the Front-End pages:
  - o NayMenu.js
  - o Signin.jsx
  - o Dashboard.js
  - o Dashboard.css
  - o WilliamAmbriz.js
  - o About.js
- I worked with Back-End to try and implement some API calls:
  - o getEmailByUser()
  - o getUser()
  - o getTutor()
  - o createUser()

B) Number of Submissions --> git shortlog --summary --numbered --all

- With merges: (56 William Ambriz) + (18 wambriz) = 74
- Without merges: (17 wambriz) + (13 William Ambriz) = 30

C) Main Challenges:

- As a GitHub Master, one of my main issues was understanding Git, understanding how to resolve conflicts was particularly challenging. These conflicts often occurred when merging branches with conflicting changes, which led to watch git tutorials on the different ways to fix conflicts. I experimented with various scenarios in a test repository with different plugins that were recommended. After a few plugins, merge conflicts became a lot easier to understand and resolve. APIs were also a major issue for me because I didn't have much experience using them. It required a lot of trial and error when dealing with these APIs because during my trials they would work on localhost but not on the IP.

C) Main Challenges:

- As a GitHub Master, one of my main issues was understanding Git, understanding how to resolve conflicts was particularly challenging. These conflicts often occurred when merging branches with conflicting changes, which led to watch git tutorials on the different ways to fix conflicts. I experimented with various scenarios in a test repository with different plugins that were recommended. After a few plugins, merge conflicts became a lot easier to understand and resolve. APIs were also a major issue for me because I didn't have much experience using them. It required a lot of trial and error when dealing with these APIs because during my trials they would work on localhost but not on the IP.

D) Future:

- For the future, I think I should be asking for more help from team members, instead of spending too much time on one single issue. Also, I think team meeting & deadlines should be stricter. We sometimes have didn't have full participation on tasks/meetings when we as a group agreed on these time & place.

## 9. Code Conventions

### 1. Folder Structure

- Adopt a consistent and logical folder structure for the project. Separate frontend and backend code into distinct directories.

Example:

```
/src
  /frontend
    /components
    /pages
  /backend
    /controllers
    /models
```

### 2. File Naming

- Use meaningful and descriptive names for files, following camelCase.

Example:

```
userAuthentication.js
```

### 3. Variable Naming

- Utilize camelCase for variable names to enhance consistency.

Example:

```
let studentRecord;
```

## 4. Function Naming

- Follow camelCase for function names and use descriptive verbs.
- Example:

```
function calculateGrade() {
    // Function logic
}
```

## 5. Constants

- Constants should be in uppercase with underscores to separate words.

Example:

```
const MAX_ATTEMPTS = 3;
```

•

## 6. Code Formatting

- Maintain consistent indentation (e.g., 2 or 4 spaces) and adhere to a standardized code formatting style for improved readability.

Example:

```
if (condition) {
    // Code block
} else {
    // Code block
}
```

## 5. Comments

- Provide clear and concise comments to explain complex logic, functions, or any non-trivial code segments.

Example:

```
// Function to validate user input
function validateInput() {
    // Validation logic
}
```

## 6. Git Version Control

- Follow the [Conventional Commits](#) standard for Git commit messages. Use clear and descriptive messages.

Example:

```
feat: implement user authentication
fix: resolve navbar styling issue
```

## 7. Documentation

- Maintain up-to-date documentation, including README files, providing information on project setup, dependencies, and usage.

# Naming Convention

## 1. Introduction <a name="introduction"></a>

Consistent naming conventions and coding style are essential for writing clean and maintainable code. This document outlines simple guidelines for naming identifiers and structuring code in a readable manner.

## 2. Naming Conventions <a name="naming-conventions"></a>

Variables <a name="variables"></a>

Use meaningful and descriptive names.

Start variable names with a lowercase letter.

Use camelCase for multi-word variable names.

```
# Good
age = 25
userName = "JohnDoe"
# Avoid
a = 25
user_name = "JohnDoe"
```

## Functions <a name="functions"></a>

Use verbs for function names to indicate actions.

Start function names with a lowercase letter.

Use camelCase for multi-word function names.

```
"JohnDoe"
# Good
calculate_sum()
getUserDetails()
```

```
# Avoid  
sum_values()  
get_User_Details()
```

### Constants <a name="constants"></a>

Use uppercase letters for constant names.

Separate words in a constant with underscores.

```
# Good  
PI = 3.14159  
MAX_VALUE = 100  
# Avoid  
pi = 3.14159  
.MaxValue = 100
```

### Classes <a name="classes"></a>

Use nouns for class names to represent entities.

Start class names with an uppercase letter.

Use CamelCase for multi-word class names.

```
100  
# Good  
class Car:  
    pass  
class UserDetails:  
    pass  
  
# Avoid  
class car:  
    Pass
```

### 3. Coding Style <a name="coding-style"></a>

Indentation <a name="indentation"></a>

Use 4 spaces for indentation (not tabs).

Be consistent with indentation throughout the codebase.

```
Pass
def example_function():
    if condition:
        statement1
        Statement2
# Avoid
def example_function():
    if condition:
        statement1
        statement2
```

### Spacing <a name="spacing"></a>

Use a space after commas and around operators.

Avoid unnecessary spaces.

```
Statement2
# Good
result = x + y
numbers = [1, 2, 3]

# Avoid
result=x+y
numbers = [ 1,2,3 ]
```

### Comments <a name="comments"></a>

Write comments to explain complex code or provide context.

Keep comments concise and avoid redundant comments.

```
3 ]
# Good
# Calculate the total sum of the numbers
total_sum = sum(numbers)

# Avoid
# This is a loop
for i in range(10):
    print(i)
```

### Function Length <a name="function-length"></a>

Keep functions short and focused on a single task.

Aim for functions that fit within a screen without scrolling.

#### Imports <a name="imports"></a>

Import modules at the beginning of the file.

Group imports by standard library, third-party, and project-specific modules.

```
# Good
import os
import sys

from datetime import datetime
import requests

# Avoid
from datetime import datetime, timedelta
import requests, os, sys
```

#### 4. Example <a name="example"></a>

```
# Example: Calculate the average of a list of numbers

def calculate_average(numbers):
    """
    Calculate the average of a list of numbers.

    Args:
    - numbers (list): List of numbers.

    Returns:
    - float: Average value.
    """
    if not numbers:
        return 0

    total_sum = sum(numbers)
    average = total_sum / len(numbers)
    return average

# Example usage
number_list = [10, 20, 30, 40, 50]
result = calculate_average(number_list)
print(f"The average is: {result}")
```

#### 5. Conclusion <a name="conclusion"></a>

Consistent naming conventions and coding style enhance code readability and maintainability. Adhering to these guidelines will make your codebase more accessible to other developers and contribute to a more efficient development process.