



GATOR TUTORING

FINASW ENGINEERING CSC 648-848 FALL 2024 Team 7
Website URL: <http://18.118.85.170/>



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Product Summary

GatorTutoring

This website is designed to help SFSU students find tutors that can help them with whatever subject they are studying. The website has a clean user interface and is easy to navigate. The website also allows new tutors to register as service providers.

The tutoring website allows all visitors to search for tutors either by subject and/or tutor's values like name, description, and even SFSU courses. The visitor can then browse through the selection of tutors and see whatever information they have posted and find one they feel will best fit their needs. If a student would like to contact a tutor they will click our Register link and create an account using their SFSU email. Students using services and tutors providing services are SFSU students.

As for those looking to offer tutor help to SFSU students, follow the same registration steps above and visit our tutor application link. From there you will be able to apply as a tutor. This application is then approved or denied by our Database Admin, if approved their information will be added to the database of tutors available on the website.

Major Committed Function List

All site visitors shall be able to:

- Search for tutors by SFSU subject, SFSU course name, tutor's bio and tutor's name.
- View images and videos from tutor profile.

All Registered Users shall be able to:

- Have the option to apply as a tutor.
 - Upload a short Biography, Video and Images to the website.
 - Any uploaded content must be approved by an administrator before being posted to the website.
- Message any tutor.
- Have a dashboard showing all received messages.

Other Functions

- Messages and Tutor Applications (including all data upload) will need approval from Admin.

Our Website <http://18.118.85.170/>

Project Milestone Documentation



SFSU-BASED TUTORING WEBSITE - MILESTONE 1

SW ENGINEERING CSC 648-848 FALL 2024 Team 7



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Executive Summary

Overview

This website is designed to help SFSU students find tutors that can help them with whatever subject they are studying.

The tutoring website allows students to search for tutors either by subject they teach or by a generic, basic text search. The student can then browse through the selection of tutors and see whatever information they have posted and find one they feel will best fit their needs. Then, if a student finds a tutor they would like to study with, they can make an account on the website and message that tutor to let them know they are interested in working with them. Then for those looking to become tutors there will be a separate page where one can apply to become a tutor. This application will be manually approved, and their information will be added to the database of tutors available on the website. Students using services and tutors providing services are SFSU students.

This project is needed to provide students the ability to network with tutors and receive the help they need in a timely manner. Additionally this website will provide a platform for tutors who are knowledgeable in their respective subjects to find students/clients to teach more effectively than they could by word of mouth. Overall, the tutoring website is created for the benefit of the SFSU students looking to better their academic outcomes. As well as student tutors and tutors looking to expand their outreach in the SFSU community.

Personas

Category 1 User: Searching for product

Name: Lisa Patel



About Lisa:

- Very busy
- Proficient technology skills
- Not very patient with technology
- Likes to use a personal email for tutoring services

Goals:

- To grasp complex statistical concepts to succeed in her courses
- To find a tutor who can provide targeted help and study strategies

Skills:

- Frequently uses her laptop and smartphone for classes, online research, and communication
- Comfortable with various online learning platforms and video conferencing tools

Pain Points:

- stressed
- short on money

Category 2 User: Service Product Provider

Name: Sarah Mitchell



About:

- Holds master degree in mathematics
- Enjoys helping others
- Patient with technology
- More comfortable with in-person meetings rather than online

Goals:

- To connect with more category 1 users through the tutoring site to expand her tutoring business.
- To provide personalized, effective tutoring sessions that cater to individual learning styles.
- To receive feedback from category 1 users to improve her services and build her reputation.

Skills:

- Familiar with SFSU math classes
- Familiar with video conferencing tools, online whiteboards, and educational resources

Pain Points:

- Short on money

Category 3 User: Admin

Name: Dean Manchester



About:

- Been a teacher/professor for about 4 years
- Taught biology for 3 years
- Patient and approachable; enjoys building rapport with students

Goals:

- To have his students pass his class
- Make sure SFSU tutors are tutoring materials correctly

Skills:

- Highly tech-savvy; uses Canvas to post and grade teaching materials
- Familiar with video conferencing tools, online whiteboards, and educational resources

Pain Points:

- Busy

User Case

1. Looking for Service Providers before signing up

John is a sophomore at SFSU taking a GE class. He wants to search for tutors that teach his class. He goes on our site and searches by class name then goes through the names of tutors that show up. John chooses an appropriate tutor from our site, after viewing the tutor's detailed information, and he decides to message that tutor. After attempting to submit a message, if John is not logged in, he will be prompted to login or register.

2. User Contacting Service Provider

Mary needs to find a tutor to help her in English. She searches by the subject English and then goes through the names of tutors that show up. As she tries to send her message to the selected tutor, she is then prompted to either sign in or register. She signs in and sends the message. The tutor responds within a reasonable time and the two of them discuss payment on a separate platform.

3. Admin Approving Tutor's Posting

Mark is a teacher at SFSU. He is concerned about the amount of postings on the subject he is teaching: Statistics. He logs into his admin account and starts looking at tutor posting applications. He goes through the postings and green lights, the ones that provide significant materials for the students.

4. User Writing A Review about Site

Leona has had a couple of tutors on the site and she wants to let other students know what is in store. She signs into her student account and heads over to the review tutor tab. She leaves a review and fills out a form on what subject and class this tutor tutored her in.

List of Main Data Items and Entities - Data Glossary/Description

- List of Main Entities
 - Users
 - Unregistered User
 - A user who can just browse for tutors
 - Registered User
 - Shall be an SFSU student
 - Shall inherit unregistered user's privileges.
 - Can seek tutor help and/or become a tutor.
 - Admin
 - A user who moderates what content goes live on the site .
 - Items
 - Tutor: Registered User that has been approved to be a tutor.
 - Image: Photo of tutor
 - Video: Video of tutor
 - Bio: Short description of tutor
 - Courses: List of SFSU courses tutor's have taken.
 - Subjects
 - SFSU subjects offered that tutors and students are familiar or seeking for help with
 - Messages
 - Communication between reg. user and tutor about academic assistance.

List of High Level Functional Requirements

1. Unregistered Users shall be able to search for tutors by SFSU subject and/or SFSU course, tutor's bio and name of tutor.
2. Unregistered Users shall be able to search from any page.
3. Unregistered users shall be able to view the profile of a tutor which will include relevant information like what SFSU subject and SFSU courses they teach.
4. Unregistered Users shall be able to view tutor's videos.
5. Unregistered Users shall be able to view tutor's images.
6. Unregistered Users shall be prompted to log in to message tutors.
7. Unregistered Users shall be prompted to log in to view the dashboard.
8. Unregistered Users shall be prompted to log in to apply as a tutor.
9. Unregistered Users shall be able to create an account to become a registered user.
10. Registered Users shall inherit all features of Unregistered Users.
11. Registered Users shall be able to reset their password.
12. Registered Users shall be able to apply as a tutor.
13. Registered Users shall be able to message a tutor.
14. Registered Users shall be able to review a tutor.
15. Registered Users shall have a dashboard listing all received messages.
16. Registered Users shall be able to add a description on their tutor application.
17. Registered Users shall be able to add an image on their tutor application.
18. Registered Users shall be able to add a video on their tutor application.
19. Admin shall approve/deny all tutor applications and messages.
20. Admin shall not have full control over the entire DB just access to necessary approval_status.

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 Mo
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 (no native app to be developed)
4. Posting of tutor information and messaging to tutors shall be limited only to SFSU students
5. Critical data shall be stored in the database on the team's deployment server.
6. No more than 50 concurrent users shall be accessing the application at the same time
7. Privacy of users shall be protected.
8. The language used shall be in English (no localization needed)
9. Application shall be easy to use and initialize
10. Application shall follow established architecture patterns
11. Application code and its repository shall be easy to inspect and maintain
12. Google Analytics shall be used
13. No email clients shall be allowed. Interested users shall only be able to message sellers via in-site messaging. One round of messaging (from user to seller) is enough for this application.
14. Pay functionality, if any (e.g. paying for goods) shall not be implemented nor simulated in UI.

15. Site security: basic best practices shall be applied (as covered in class) for main data items
16. Media formats shall be standard as used in the market today
17. Modern SE processes and tools shall be used as specified in the class, including collaborative and continuous SW development and GenAI tools
18. The application UI (WWW and mobile) shall prominently display the following exact text on all pages "SFSU Software Engineering Project CSC 648-848, Fall 2024. 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

We have identified the following primary competitors for our online tutoring platform:

1. **Tutor.com**
2. **Chegg.com**
3. **Wyzant.com**
4. **Skooli.com**

Key Features for Comparison

Based on the functionalities offered by the competitors and the requirements of our project, we have selected the following key features for comparison:

1. **User Authentication**
2. **Tutor Matching System**
3. **Interactive Learning Tools (e.g., Virtual Whiteboard, Video Sessions)**
4. **Mobile Accessibility**
5. **Session Scheduling and Management**
6. **SFSU-specific Integration**
7. **Registration Process**
8. **Payment Methods**

Comparison Table

Feature	Tutor.com	Chegg.com	Wyzant.co m	Skooli.com	Our Product (Team 7)
User Login	Yes (Email, Password)	Yes (Email, Password)	Yes (Email, Password)	Yes (Email, Password)	Yes (Email, Password)
Tutor Matching System	Algorithm-based matching	AI-driven recommendations	Manual selection and matching	AI and manual hybrid system	Manual selection and matching
Interactive Learning Tools	Virtual Whiteboard, Video Sessions	Video Sessions, Q&A Forums	Virtual Classroom, Interactive Tools	Virtual Whiteboard, Screen Sharing	Video hosting for lecture with messaging system
Mobile Accessibility	Yes (iOS, Android Apps)	Yes (iOS, Android Apps)	Yes (iOS, Android Apps)	Yes (iOS, Android Apps)	Yes (Mobile Browser)
Session Scheduling and Management	Integrated Calendar, Reminders	Flexible Scheduling, Calendar Sync	Comprehensive Scheduling Tools	Session Booking, Calendar Integration	message notification reminder
Registration Process	Multi-step form Email/SMS verification	Streamlined with minimal steps Email verification	Detailed profile creation Background checks for tutors	Quick sign-up for students Detailed profiles for tutors	Required SFSU Email Quick sign-up for students and tutors
Payment Methods	Credit/Debit Cards PayPal	Credit/Debit Cards PayPal	Credit/Debit Cards PayPal	Credit/Debit Cards PayPal	N/A

Summary

Our application offers a robust and tailored online tutoring platform that competes effectively with industry leaders such as Tutor.com, Chegg.com, Wyzant.com, and Skooli.com. SFSU-specific integration ensures a personalized and cohesive user experience for SFSU students, enabling streamlined access to tutoring services based on the user's classes being taken at the university.

Additionally, our selection-based tutor matching system leverages SFSU student data to provide more personal and relevant tutor pairings, enhancing the effectiveness of each tutoring session. Unlike Chegg.com, which relies heavily on a random-based tutor selection, our platform offers a hybrid approach that combines selection efficiency with personalized matching. These unique features not only align with SFSU's academic environment but also provide added value that sets our application apart from existing competitors.

Incorporating SFSU-specific Functions

To further emphasize our unique positioning, our platform includes SFSU-specific functionalities such as:

Ability to search classes by course number (CSC 340, MATH 227, ENGR 100, etc.)

Tutor matching system: allows users to select the tutor of their choice based on criteria such as subject and course catalog number.

Interactive learning tools: Help students receive tutoring support by allowing tutors to post educational content to their profiles.

These SFSU-specific features ensure that our platform is not only competitive with existing tutoring services but also uniquely suited to meet the needs of SFSU students.

High-Level System Architecture and Technology

Amazon EC-2 Cloud Computing

Server Operating System: Ubuntu Server v24.04.1

Database: MySQL v8.0.39

Web Server: Node.js v20.17

Browser Support for Firefox (Desktop) and Google Chrome (Mobile)

Figma Interface Design Tool

Trello Project Planning App

Use of GenAI Tools

Suzanna - Creating Personas and Use Cases

For GenAI, I used ChatGPT for the personas. It helped us with creating a base of a personae. It was about Medium usefulness because I could build off of the personae that the AI created for me. I used the tool by asking the AI to help me generate a personae of a student, tutor, and teacher who is in college.

College Student Prompt:

can you create a college student personae that needs
help with their school course

ChatGPT response:



Name: Emily Reyes

Age: 19

Major: Biology (Pre-Med)

Year: Sophomore

Personality: Hardworking, introverted, and determined, but easily stressed by heavy coursework. Enjoys reading and nature walks for relaxation.

Challenges:

- Struggles with time management and juggling tough courses like Organic Chemistry and Physics.
- Unsure of her study methods, often feeling like she's putting in the time but not seeing results.
- Hesitant to seek help from professors, though open to tutoring or study groups.

Goal: Maintain a high GPA to get into medical school and improve her study habits and time management.



Team and Roles

Name	Email	Role
Thomas Bercasio	tbercasio@sfsu.edu	Team Lead
Zarko Cosovic	zcosovic@sfsu.edu	Backend Lead
Jaylin Jack	jjack1@mail.sfsu.edu	Team Member Backend
Suzanna Li	sli47@sfsu.edu	Frontend Lead
Ken Chika	kchika@sfsu.edu	Github Master QA Assurance

Team Lead Checklist

So far all team members are fully engaged and attending team sessions when required.

Done

Team found a time slot to meet outside of the class

Done

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

Team reviewed class slides on requirements and use cases before drafting Milestone 1

Done

Team reviewed non-functional requirements from “How to start...” document and developed Milestone 1 consistently

Done

Team lead checked Milestone 1 document for quality, completeness, formatting and compliance with instructions before the submission

Done

Team lead ensured that all team members read the final M1 and agree/understand it before submission.

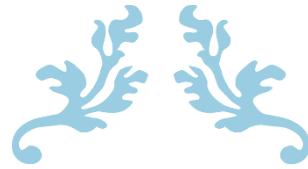
Done

Team shared and discussed experience with genAI tools among themselves

Done

Github is organized as discussed in class (e.g. master branch, development branch, folder for milestone documents etc.)

Done



SFSU-BASED TUTORING WEBSITE - MILESTONE 2

SW ENGINEERING CSC 648-848 FALL 2024 Team 7



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This project is needed to provide for the students the ability to network with tutors and receive the help they need in a timely manner. Additionally this website will provide a platform for tutors who are knowledgeable in their respective subjects to find students/clients to teach more effectively than they could by word of mouth. Overall, the tutoring website is created for the benefit of the SFSU students looking to better their academic outcomes, and the benefit for the student tutors who are looking to expand their outreach in the SFSU community.

Main Entities & Data Items

User Types

Unregistered Users

- Description: Entity which can only search for tutors. Shall be able to register and become a Registered User.

Registered Users

- Description: Entity signed up on our website to either seek academic support from a tutor and/or become a tutor. Needs to Login/Register.

Admin

- Description: Entity which approves or denies incoming pending tutor applications and message postings. Needs proper admin login credentials to control DB.

Main Entities

1. Registered _ User

- **Description:** Entity signed up on our website to either seek academic support from a tutor and/or become a tutor. Needs to Login/Register.
- **Values:**
 - ID: Unique Identifier for each Registered User
 - Name: Name of Registered User
 - SFSU Email: Email Address of Registered User
 - Password: Password of Registered User

2. Tutor

- **Description:** Entity which provides academic help to students. Needs to Login/Register. (Approved By Admin)
- **Values:**
 - Reg_User_ID: Identifier to link each tutor to their registered_user account
 - ID: Unique identifier for each tutor
 - Name: Tutor Name
 - Bio: Tutor's Brief Biography/Description
 - Subject: Subject that the tutor is offering help for
 - Courses: Courses that the tutor has taken.
 - Photo: Image of the tutor
 - Video: Brief video of tutor
 - Approval_Status: Status of the tutor application
- **MANDATORY Sub-Items:**

- Subjects

3. Subject (SFSU Specific)

- **Description:** Entity which contains subjects offered at SFSU
- **Values:**
 - ID: Unique identifier for each subject
 - Name: SFSU's subject name

4. Message

- **Description:** Entity which communicates text between 2 registered users.
- **Values:**
 - ID: Unique identifier for each message
 - Message: Text content of a message
 - Sender's ID: Registered_User_ID of message sender
 - Recipient's ID: Registered_User_ID of message recipient
 - Approval_Status: Status of the message

Optional Items (Accessible to anyone & Needs Approval of Admin)

Review

- **Description:** Entity which users express feedback on a tutor for others to see
- **Values:**
 - ID: Unique ID for each review
 - Message: Text content of each review message
 - Sender's ID: Unique identifier of review sender

- Recipient's ID: Unique identifier of review recipient
- Approval_Status: Status of the review

Functional Requirements - Prioritized

Priority 1

- **Unregistered Users**

1. Unregistered Users shall be able to search for tutors by SFSU subject and/or SFSU course, tutor's bio and name of tutor.
 - 1.1. Shall use %like% search to retrieve tutors by their name, subjects, and description values.
 - 1.2. Shall have a dropdown menu which matches subjects to tutors who teach the selected subject.
 - 1.3. Shall be able to view tutor postings matching their request.
2. Unregistered Users shall be able to search from any page.
 - 2.1. Search shall exist and work on all pages of the website.
3. Unregistered users shall be able to view the profile of a tutor which will include relevant information like what SFSU subject and SFSU courses they teach.
 - 3.1. Shall display DB values from the tutor table including name, subject, bio, etc.
4. Unregistered Users shall be able to view tutor's videos.
 - 4.1. Each tutor shall have the option to upload a video.
 - 4.2. Approved videos shall be loaded from our file system.
5. Unregistered Users shall be able to view tutor's images.
 - 5.1. Each tutor shall have the option to upload an image.
 - 5.2. Approved images shall be loaded from our file system.
6. Unregistered Users shall be prompted to log in to message tutors.
 - 6.1. Access to the message page shall be restricted for inactive sessions.
 - 6.2. Shall redirect to the login page.
7. Unregistered Users shall be prompted to log in to view the dashboard.

- 7.1. Access to the dashboard page shall be restricted for inactive sessions.
8. Unregistered Users shall be prompted to log in to apply as a tutor.
 - 8.1. Access to the tutor application page shall be restricted for inactive sessions.
9. Unregistered Users shall be able to register.
 - 9.1. Registration Page shall exist and ensure SFSU status when creating an account.

● Registered Users

10. Registered Users shall inherit all privileges of Unregistered Users.
 - 10.1. When a session is active all search and media shall be available.
11. Registered Users shall be able to reset their password.
 - 11.1. Login Page shall allow users to reset their password using their SFSU email.
12. Registered Users shall be able to apply as a tutor.
 - 12.1. Submitted tutor application via tutor_application page shall be pending an approval decision by Admin.
13. Registered Users shall be able to message a tutor.
 - 13.1. Message page shall list all approved tutors
 - 13.2. Send the tutor a message and the message shall be pending an approval from Admin.
15. Registered Users shall have a dashboard listing all received messages.
 - 15.1. Dashboard page shall list all received approved messages for logged in user.
16. Registered Users shall be able to add a description on their tutor application.
 - 16.1. Within the tutor_application page shall exist a bio field.
17. Registered Users shall be able to add an image on their tutor application.
 - 17.1. Within the tutor_application page shall exist an image upload field.
18. Registered Users shall be able to add a video on their tutor application.
 - 18.1. Within the tutor_application page there shall exist a video upload field.

- **Admin**

19. Admin shall be required to approve/deny all tutor applications and messages.
 - 19.1. All tutor applications and messages shall initially be set as pending.
 - 19.2. Admin shall either approve/deny.
20. Admin shall not have full control over the entire DB just access to necessary approval_status.
 - 20.1. Admin shall have an account with MySQL connection.
 - 20.2. Admins shall have the ability to view tutor and message tables but only have the ability to update approval status

Priority 2

- **Registered Users**

14. Registered Users shall be able to review a tutor.
 - 14.1. Review Table must exist in our DB and Review page must exist on our site
 - 14.2. Pick a tutor and leave a review
 - 14.3. We shall need admin approval before it goes live.

Priority 3

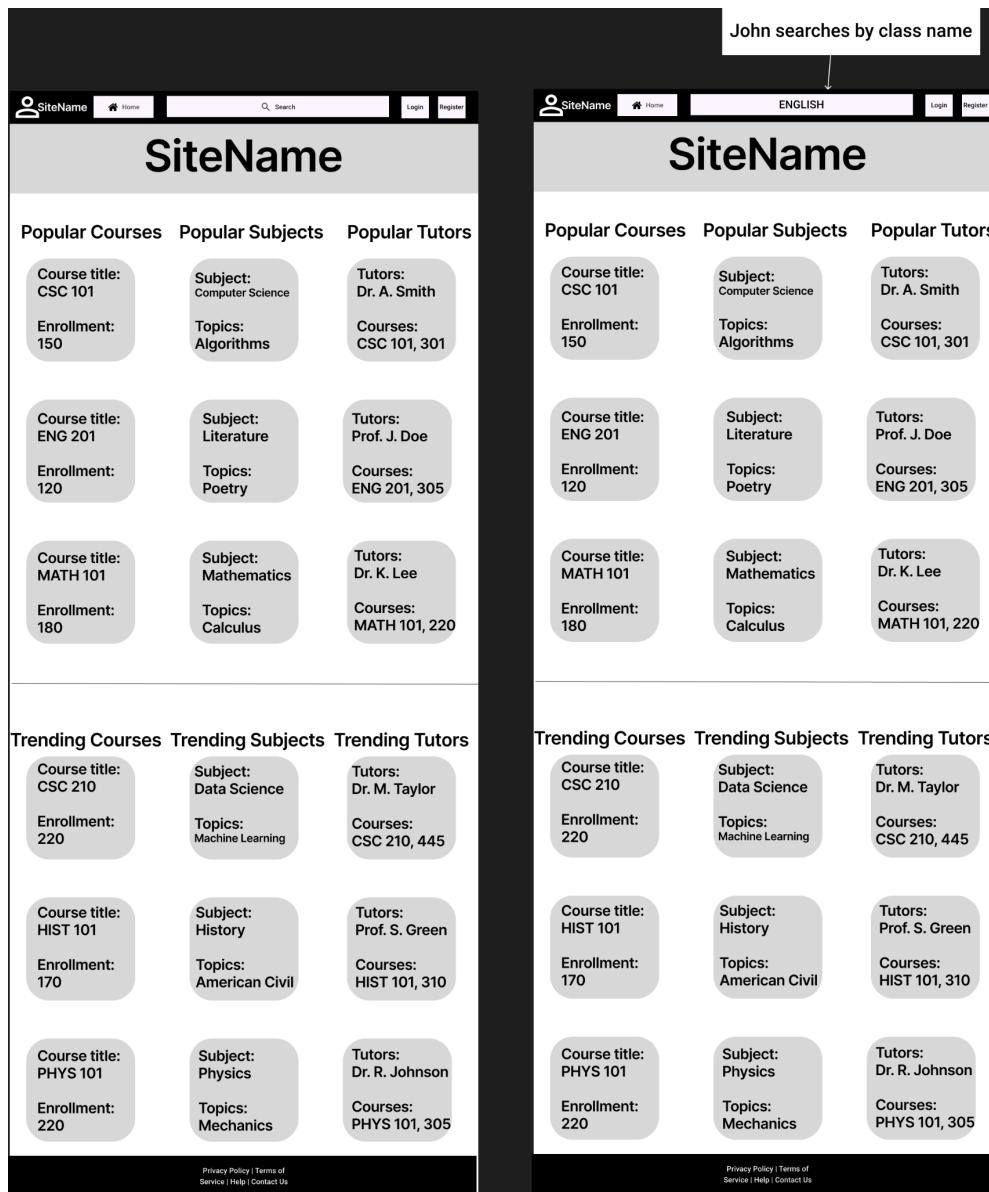
- **Admin**

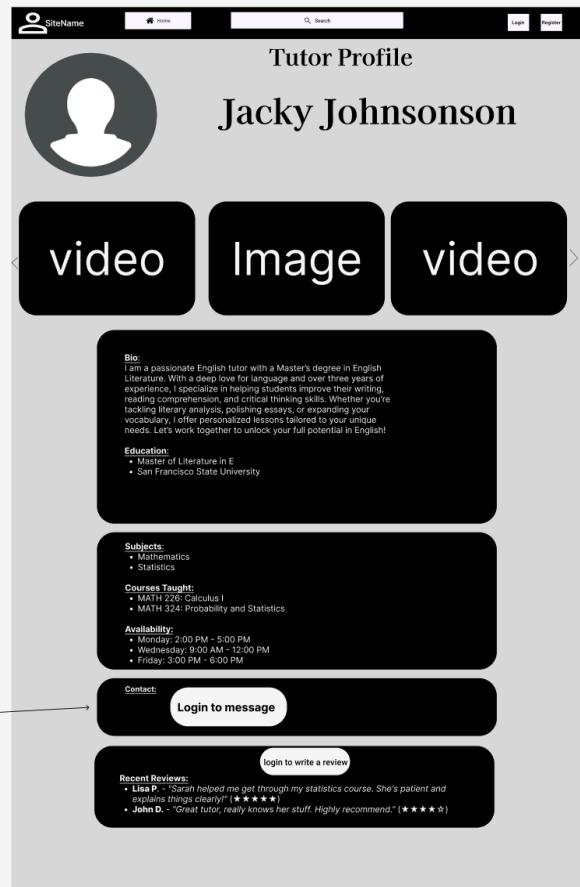
- Moderator page to manage content.

UI/UX Storyboards and Mockups

Unregistered User Looking for a Tutor

Mary needs to find a tutor to help her in English. She searches by the subject English and then goes through the names of tutors that show up. As she tries to send her message to the selected tutor, she is then prompted to either sign in or register. She signs in and sends the message. The tutor responds within a reasonable time and the two of them discuss payment on a separate platform.





Tutor Profile
Jacky Johnsonson

video **Image** **video**

Bio:
I am a passionate English tutor with a Master's degree in English Literature. With a deep love for language and over three years of experience, I specialize in helping students improve their writing, reading comprehension, and critical thinking skills. Whether you're looking to enhance your grammar, expand your vocabulary, or boost your overall English proficiency, I offer personalized lessons tailored to your unique needs. Let's work together to unlock your full potential in English!

Education:
• Master of Literature in E
• San Francisco State University

Subjects:
• Mathematics
• Statistics

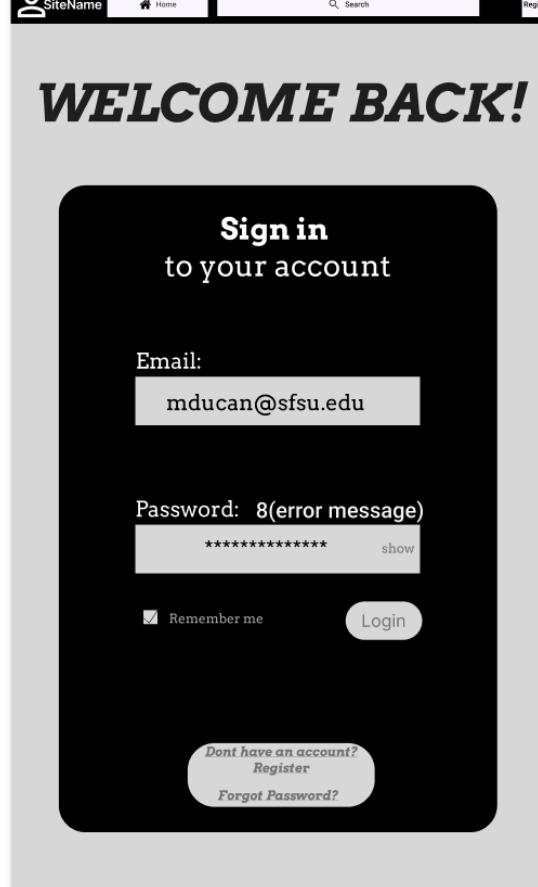
Courses Taught:
• MATH 226: Calculus I
• MATH 324: Probability and Statistics

Availability:
• Monday: 2:00 PM - 5:00 PM
• Wednesday: 8:00 AM - 12:00 PM
• Friday: 3:00 PM - 6:00 PM

Contact: [Login to message](#)

[Login to write a review](#)

Recent Reviews:
 • Lisa S. - "Sarah helped me get through my statistics course. She's patient and explains things clearly!" (★★★★★)
 • John D. - "Great tutor, really knows her stuff. Highly recommend." (★★★★★)



WELCOME BACK!

Sign in
to your account

Email:

Password: 8(error message)
 [show](#)

Remember me [Login](#)

[Don't have an account? Register](#)
[Forgot Password?](#)

SiteName Home Search 1 Login

WELCOME!

Register
for an account

Full Name

Email:

Password:
 show

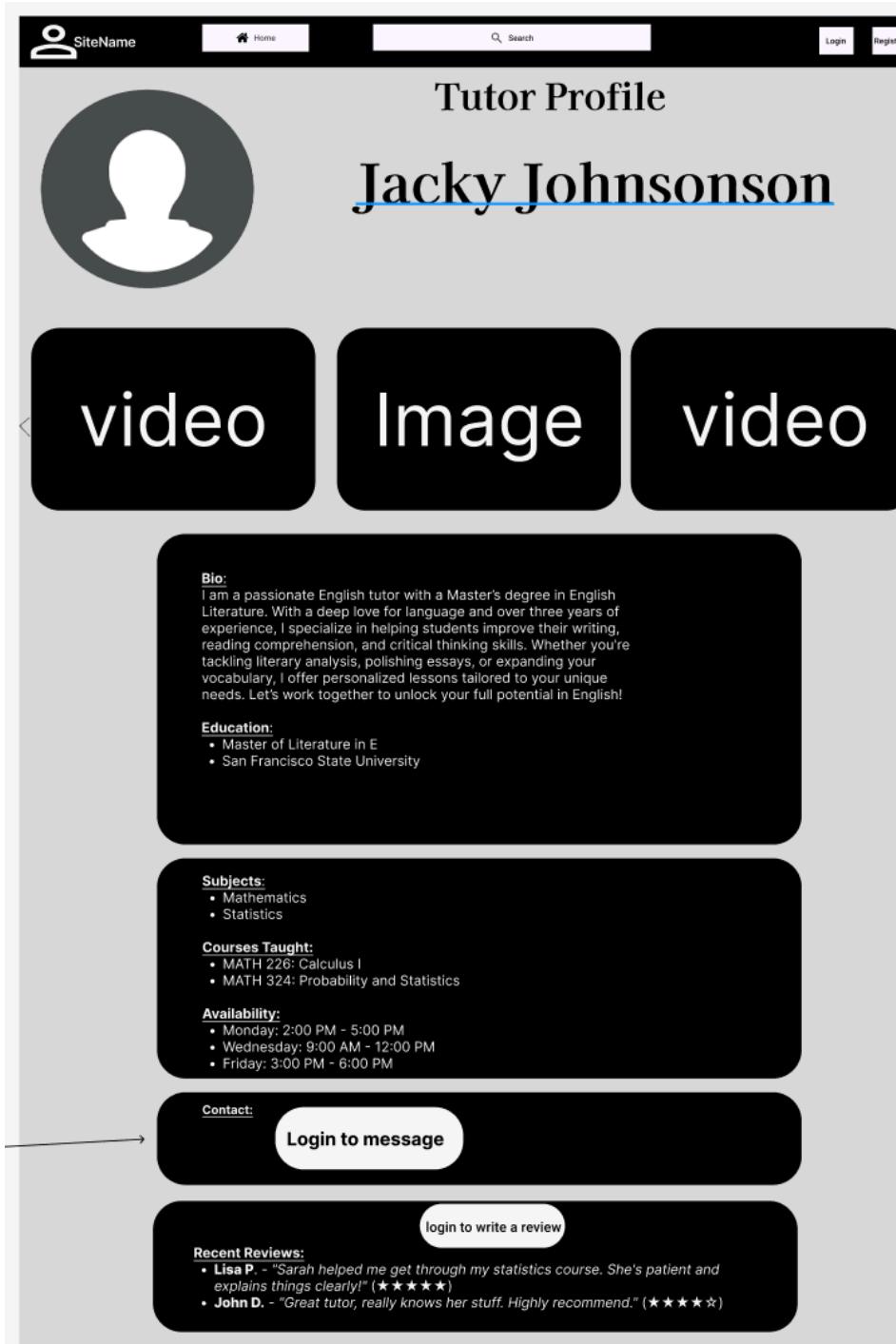
Confirm Password:
 show

I agree to the Terms & Conditions

Register

Already have an account? Log in
[Terms & Conditions](#)

If not registered



The screenshot shows a 'Tutor Profile' page for 'Jacky Johnsonson'. At the top, there's a navigation bar with a logo, 'SiteName', 'Home', 'Search', 'Login', and 'Register'. Below the navigation is a large circular placeholder for a profile picture. To the right of the placeholder, the name 'Jacky Johnsonson' is displayed in a large, bold, blue font. Below the name are three dark rectangular buttons with white text: 'video', 'Image', and 'video'. A large dark rectangular box contains the tutor's bio, education, subjects taught, courses taught, availability, and contact information. At the bottom of this box is a button labeled 'Login to message'. Another dark rectangular box at the very bottom contains recent reviews and a button labeled 'login to write a review'.

Tutor Profile

Jacky Johnsonson

video **Image** **video**

Bio:
I am a passionate English tutor with a Master's degree in English Literature. With a deep love for language and over three years of experience, I specialize in helping students improve their writing, reading comprehension, and critical thinking skills. Whether you're tackling literary analysis, polishing essays, or expanding your vocabulary, I offer personalized lessons tailored to your unique needs. Let's work together to unlock your full potential in English!

Education:

- Master of Literature in E
- San Francisco State University

Subjects:

- Mathematics
- Statistics

Courses Taught:

- MATH 226: Calculus I
- MATH 324: Probability and Statistics

Availability:

- Monday: 2:00 PM - 5:00 PM
- Wednesday: 9:00 AM - 12:00 PM
- Friday: 3:00 PM - 6:00 PM

Contact:

[Login to message](#)

[login to write a review](#)

Recent Reviews:

- Lisa P. - "Sarah helped me get through my statistics course. She's patient and explains things clearly!" (★★★★★)
- John D. - "Great tutor, really knows her stuff. Highly recommend." (★★★★★☆)

Can now click on link to message tutor

Registered User messaging tutor about payment offsite*

Mary needs to find a tutor to help her in English. She searches by the subject English and then goes through the names of tutors that show up. As she tries to send her message to the selected tutor, she is then prompted to either sign in or register. She signs in and sends the message. The tutor responds within a reasonable time and the two of them discuss payment on a separate platform.

The image consists of two side-by-side screenshots of a website interface, separated by a vertical black bar. Both screenshots show a header with a user icon, 'SiteName', a search bar ('Search'), and buttons for 'apply as tutor', 'Login', and 'Register'. A callout bubble from the top right of the first screenshot points to the 'ENGLISH' button in the second screenshot, indicating a search action.

Screenshot 1 (Left): This shows the homepage with three columns: 'Recent Courses', 'Recent Subjects', and 'Recent Tutors'. Each column contains six items, each with a rounded gray box containing course information (e.g., 'Course title: CSC 101', 'Enrollment: 150') and a smaller box below it with subject and tutor details (e.g., 'Subject: Computer Science', 'Topics: Algorithms').

Recent Courses	Recent Subjects	Recent Tutors
Course title: CSC 101 Enrollment: 150	Subject: Computer Science Topics: Algorithms	Tutors: Dr. A. Smith Courses: CSC 101, 301
Course title: ENG 201 Enrollment: 120	Subject: Literature Topics: Poetry	Tutors: Prof. J. Doe Courses: ENG 201, 305
Course title: MATH 101 Enrollment: 180	Subject: Mathematics Topics: Calculus	Tutors: Dr. K. Lee Courses: MATH 101, 220
Course title: CSC 210 Enrollment: 220	Subject: Data Science Topics: Machine Learning	Tutors: Dr. M. Taylor Courses: CSC 210, 445
Course title: HIST 101 Enrollment: 170	Subject: History Topics: American Civil	Tutors: Prof. S. Green Courses: HIST 101, 310
Course title: PHYS 101 Enrollment: 220	Subject: Physics Topics: Mechanics	Tutors: Dr. R. Johnson Courses: PHYS 101, 305

Screenshot 2 (Right): This shows the results of the search for 'ENGLISH'. The layout is identical to the first screenshot, with three columns of recent courses, subjects, and tutors. The 'ENGLISH' search term is highlighted in the search bar.

Recent Courses	Recent Subjects	Recent Tutors
Course title: CSC 101 Enrollment: 150	Subject: Computer Science Topics: Algorithms	Tutors: Dr. A. Smith Courses: CSC 101, 301
Course title: ENG 201 Enrollment: 120	Subject: Literature Topics: Poetry	Tutors: Prof. J. Doe Courses: ENG 201, 305
Course title: MATH 101 Enrollment: 180	Subject: Mathematics Topics: Calculus	Tutors: Dr. K. Lee Courses: MATH 101, 220
Course title: CSC 210 Enrollment: 220	Subject: Data Science Topics: Machine Learning	Tutors: Dr. M. Taylor Courses: CSC 210, 445
Course title: HIST 101 Enrollment: 170	Subject: History Topics: American Civil	Tutors: Prof. S. Green Courses: HIST 101, 310
Course title: PHYS 101 Enrollment: 220	Subject: Physics Topics: Mechanics	Tutors: Dr. R. Johnson Courses: PHYS 101, 305

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SiteName

Found 32 Search Results for "ENGLISH"

Advanced Search:

Subjects:	Rating:	Availability:	Time:
English	★★★★★	Monday	6am - 9am
Business	★★★★☆	Tuesday	9am - 12pm
Pyschology	★★★☆☆	Wednesday	12pm - 3pm
	★★☆☆☆	Thursday	3pm - 6pm
	★★☆☆☆	Friday	6pm - 9pm
		Saturday	
		Sunday	

Mary clicks on
tutor

Jacky johnsonson

Course: ENG 344, 324

Rating: ★★★★☆

Availability: Monday, Tuesday, Friday

Mike Jones

Course: ENG 327, 390

Rating: ★★★☆☆

Availability: Monday, Tuesday, Wednesday, Thursday, Friday

David Lee

Course : ENG 324, 930

Rating: ★★★★☆

Availability: Friday, Saturday, Sunday

Shay Cass

Course: ENG 403

Rating: ★★★☆☆

Availability: Monday, Wednesday, Friday

Tom Green

Course: ENGLISH 390, 399

Rating: ★★★★☆

Availability: Tuesday, Sunday

Tutor Profile

Jacky Johnsonson

English & Literature

Contact: Hello, do you have any openings for Mon @3pm?

video **Image** **video**

Courses Taught:
• ENG 334: English Composition
• ENG 324: Advanced literature

Availability:
• Monday: 2:00 PM - 5:00 PM
• Wednesday: 9:00 AM - 12:00 PM
• Friday: 3:00 PM - 6:00 PM

Bio:
I am a passionate English tutor with a Master's degree in English literature. With over five years of experience, I specialize in helping students improve their writing, reading comprehension, and critical thinking skills. Whether you're tackling literary analysis, polishing essays, or expanding your vocabulary, I'm here to support your academic needs. Let's work together to unlock your full potential in English!

Education:
• Master of Literature in E
• San Francisco State University

Mary is now redirected to Login page to sign in once she hits submit button on the message form

Mary now signs in before being redirected back to the message

WELCOME BACK!

Sign in
to your account

Email: mducan@sfsu.edu

Password: 8(error message)

Remember me

*Dont have an account?
Register*

Forgot Password?

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Tutor Profile

Jacky Johnsonson

English & Literature

Contact: Hello, do you have any openings for Mon @3pm?

video **Image** **video**

Courses Taught:

- ENG 344: English Composition
- ENG 324: Advanced Literature

Availability:

- Monday: 2:00 PM - 5:00 PM
- Wednesday: 9:00 AM - 12:00 PM
- Friday: 3:00 PM - 6:00 PM

Bio:
I am a passionate English tutor with a Master's degree in English Literature. With a deep passion for language, I have over three years of experience in helping students improve their writing, reading comprehension, and critical thinking skills. Whether you're tackling literary analysis, polishing essays, or expanding your vocabulary, I offer personalized lessons tailored to your unique needs. Let's work together to unlock your full potential in English!

Education:

- Master of Literature in E
- San Francisco State University

Mary hits submit again and is now redirected to message page

They then have a conversation about payment which ends with Mary completing the conversation off site

Message Portal

Message Portal

Mary:
Hello, do you have any openings for Mon @3pm?

Jacky:
Hello, Yes I do. Lets discuss payment for the session on SMS. my number is 415-345-3245

Mary:
Ok ill message your number right now

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Registered User applying to be a Tutor

Maria wants to apply as a tutor for the tutoring site. She logs into her registered account. On her dashboard she sees a category that leads to a page for users who want to apply as a tutor. She clicks on the button in the category and is brought to the tutor application page. She fills out the information and uploads a demo video for the subject she is interested in tutoring for. Before she submits, she needs to read and acknowledge that she has read the disclaimer that it will take around 36 hours for an application to be reviewed.

login page

Mark needs to have an active acc. in order to apply as a tutor

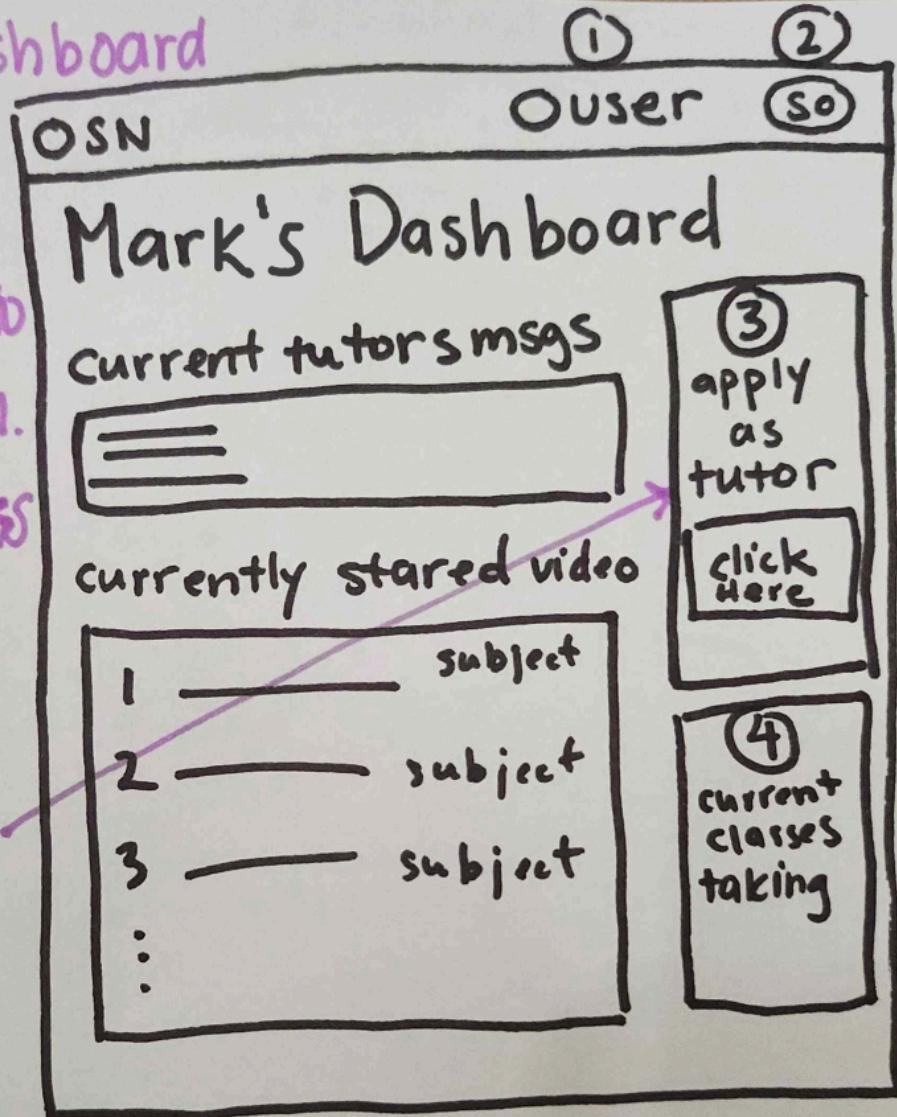
The sketch depicts a web browser window with the URL 'OSItename' in the address bar. At the top right are two circular icons labeled '①' and '②'. Below the address bar, the text 'Welcome Back!' is written in a large, bold font. A call-to-action box contains the text 'sign in to your account' above a 'email:' label followed by a text input field containing '@sfsu.edu'. Below this is a 'password:' label next to a redacted password field. At the bottom of the call-to-action box are two buttons: 'Forgot password?' and 'Login'. The 'Login' button is circled with the number '3'. To the left of the browser window, there is handwritten text: '① login', '② sign up', and '③ registration'.

① login
② sign up
③ registration

User dashboard

Mark is logged into her dash.

She clicks on the link to apply as a tutor.



① User profile

② sign out

③ area to apply as a tutor (link)

④ user's current courses

Tutor application page

Mark fills in the needed information and submits her application as a tutor.

The diagram shows a wireframe of a web page titled "Application as Tutor". At the top, there are tabs for "OSN" and "User" with a "50" badge. Below the title, there are three input fields: "Name: []", "Subject: []", and "Course: []". A section asks "What makes you a good tutor?:" followed by an optional information box containing "optional information". There is a "DEMO VIDEO" section with an "upload" button and a "submit" button. A pink arrow points from the text "submits her application as a tutor." to the "submit" button. At the bottom, a notice states: "NOTICE: Please give applications 36 hrs for review and decision."

Application as Tutor

Name: []

Subject: []

Course: []

What makes you a good tutor? :

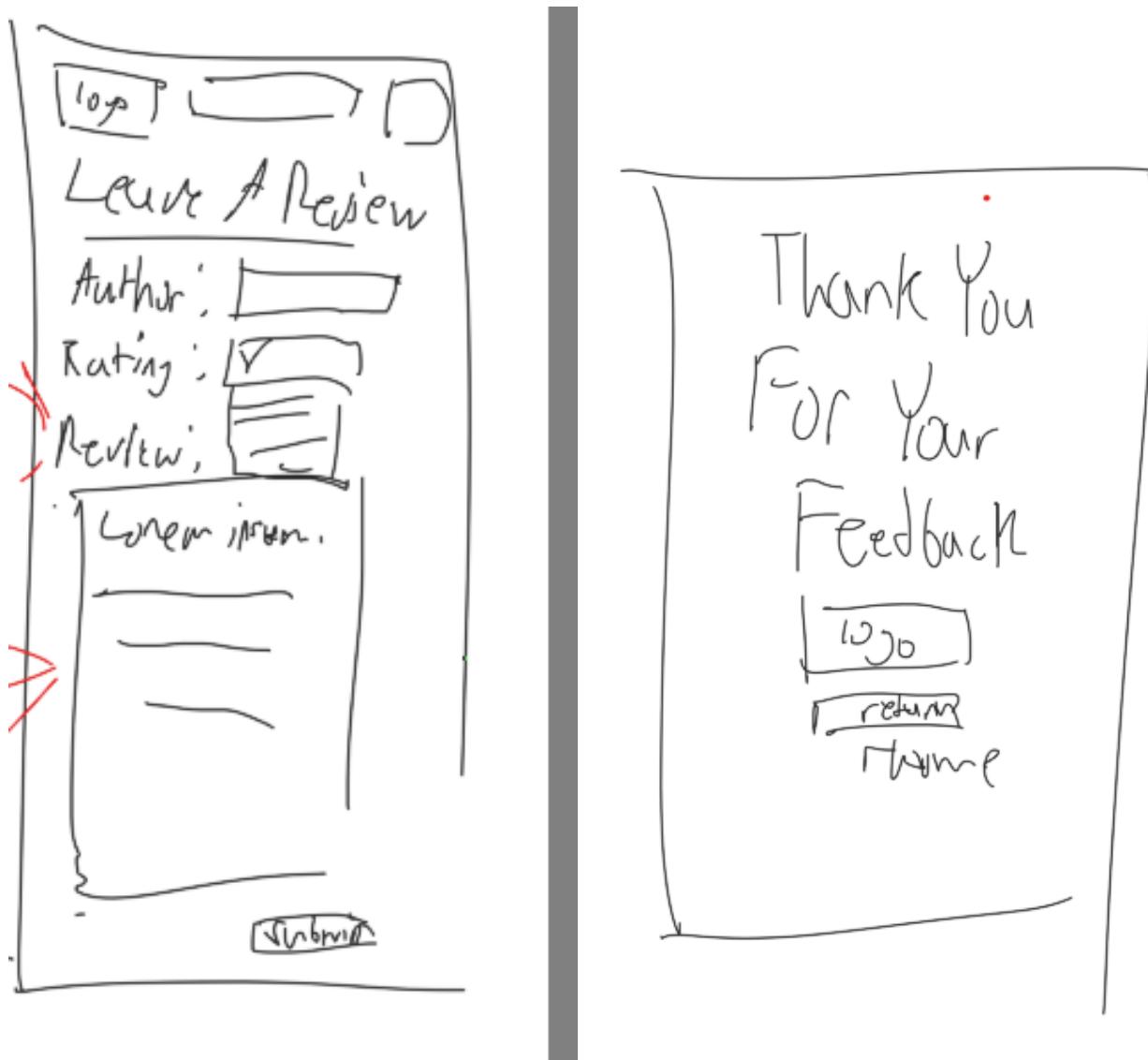
optional information

DEMO VIDEO

NOTICE:
Please give applications 36 hrs
for review and decision.

Registered User Writing a Review about Previous Tutors

Leona has had a couple of tutors on the site and she wants to let other students know what is in store. She signs into her student account and heads over to the review tutor tab. She leaves a review and fills out a form on what subject and class this tutor tutored her in.



Recent Courses

- Course title: CSC 101
Enrollment: 150
- Course title: ENG 201
Enrollment: 120
- Course title: MATH 101
Enrollment: 180
- Course title: CSC 210
Enrollment: 220
- Course title: HIST 101
Enrollment: 170
- Course title: PHYS 101
Enrollment: 220

Recent Subjects

- Subject: Computer Science
Topics: Algorithms
- Subject: Literature
Topics: Poetry
- Subject: Mathematics
Topics: Calculus
- Subject: Data Science
Topics: Machine Learning
- Subject: History
Topics: American Civil
- Subject: Physics
Topics: Mechanics

Recent Tutors

- Tutors: Dr. A. Smith
Courses: CSC 101, 301
- Tutors: Prof. J. Doe
Courses: ENG 201, 305
- Tutors: Dr. K. Lee
Courses: MATH 101, 220
- Tutors: Dr. M. Taylor
Courses: CSC 210, 445
- Tutors: Prof. S. Green
Courses: HIST 101, 310
- Tutors: Dr. R. Johnson
Courses: PHYS 101, 305

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Return to home page after making review.

High Level Architecture and Database Organization

- Database Organization

- Tutor:
 - ID (Primary Key, Auto Increment)
 - Registered_User_ID (FK to Reg. User)
 - Bio (Not NULL)
 - Course List (Not NULL)
 - Photo
 - Video
 - Approval_Status (Pending by default, Controlled by Admin)
 - **Mandatory Sub-Items:**
 - Subjects (Foreign Key)
- Registered User:
 - ID (Primary Key, Auto Increment)
 - Name (Not NULL)
 - Email (Unique, Not NULL)
 - Password (Not NULL)
- Subject:
 - ID (Primary Key, Auto Increment)
 - Name (Not Null)
- Messages:
 - ID (Primary Key, Auto Increment)
 - Message (Not NULL)
 - Sender's ID (FK to Reg. User)
 - Recipient's ID (FK to Reg. User)
 - Approval_Status (Pending by default, Controlled by Admin)
- Media storage
 - Data for images and video shall be stored in file systems.
- Search Architecture
 - There shall be a Tutor class, a Subject class,a messages table, and a Registered_User table. Each shall have methods to get and set their respective parameters.
 - There shall be a class which organizes GUI for display and data representation.
 - There shall be a class that listens for user input, and uses MYSQL commands to retrieve generally provided information from the database.

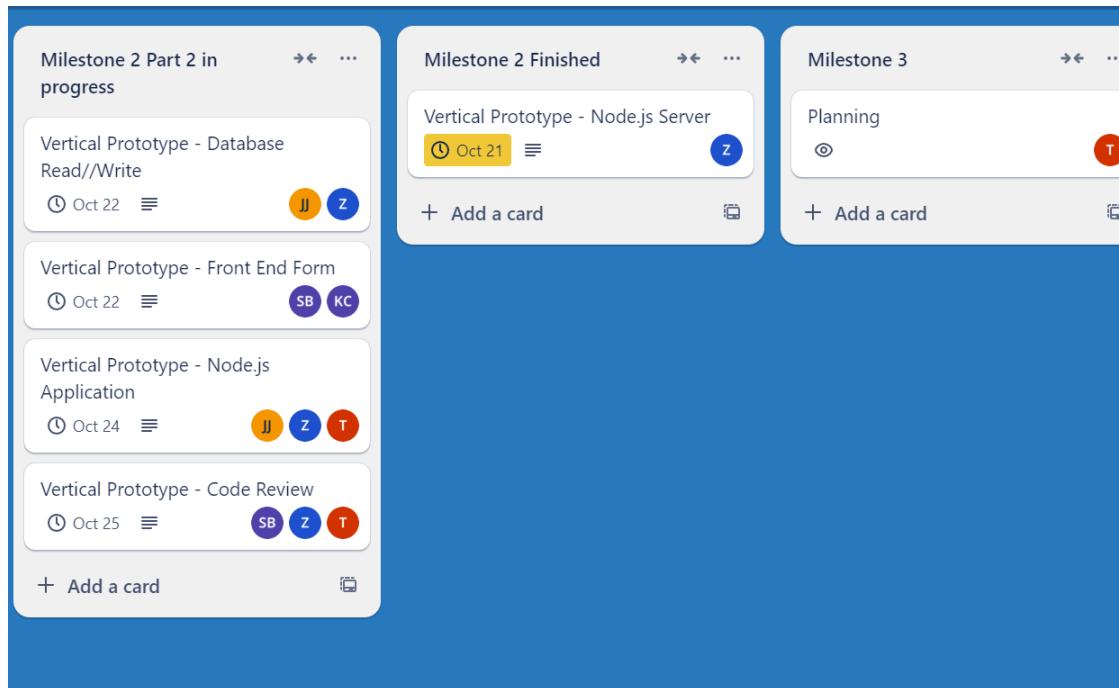
- Using queries such as SELECT col1, col2, FROM table_name WHERE cond X LIKE 'EXAMPLE____%'
- If there is no tutor that matches a given query given, then the search shall list the most recently added tutors or default to displaying the full list of tutors in the database.
- There shall be a class which controls the session for logging in and out.

Risks

- **Schedule Risk**
 - As the semester progresses and project deadlines for other classes pile up. There may be some concern as to whether or not people may have time to work on this project. Additionally, there have been schedule conflicts already with members having things like work or other important events come up that understandably take precedence over meetings for this project.
- **Skill Risk**
 - While all team members have backgrounds and skills in designing and creating applications. There are some skills that need to be shored up regarding some aspects of web development and knowledge of different frameworks.
- **Security Risk**
 - Without a background in cybersecurity, there are likely many holes in security and privacy that could appear in the implementation of the website. There may not be protection against certain kinds of attacks such as DDOS attacks, SQL Injection, etc.
- **Technical Risk**
 - One of the bigger risks we're taking with this project relative to our positions as students and a startup with investors and money is cost related to keeping our AWS Cloud Server up and running.
 - There are also risks associated with non-compatibility with certain environments like different browsers and operating systems.
- **Legal/Content Risk**
 - As with any website that can host any written, image, audio/video content, that content can be subject to IP and copyright laws. As well as potential non-compliance with certain online regulations.
- **Teamwork Risk**
 - The team is doing great right now, but maybe team morale might dip as semester progresses, and may need a boost in the future.

Project Management

For this leg of the project, we've implemented the use of Trello into our workflow to help organize larger tasks into smaller pieces and additionally split tasks into front and back end related tasks. Trello also lets the Team Lead more easily decide what tasks need to be done and by who as well as set up due dates for each task which can be seen by the entire group. This will most likely be the way all future tasks are done as we head into the next set of milestones for this project.



Vertical Prototype - Front End Form

in list MILESTONE 2 PART 2 IN PROGRESS

Members Notifications Due date

SB KC + Watch Oct 22, 11:59 PM

Description

Primary Goals

Make sure that all required entries are on the form.

Make sure that the fields on the form meet MVC standard.

Make sure that the user can send search queries with 0 to many conditions.

- Sending a search query with 0 conditions will display ALL tutors in database.

Secondary Goals

Establish CSS rules for pages on the website and test them on this form

Activity

Show details

T Write a comment...

T TPB added this card to Milestone 2 Part 2 in progress
Oct 17, 2024, 1:58 PM

Join Members Labels Checklist Dates Attachment Cover Custom Fields

Power-Ups Add Power-Ups Automation Add button

- Current Project Board for Milestone 2 (10/21/24)

Use of GenAI Tools

Jaylin Jack - Backend Team Member

I used ChatGPT 40 mini to make sure I met the requirements of logical level explanation for each Main Entity. I asked ChatGPT if I met its definition of logical level and then gave prof. definition of logical level. I would say the use of ChatGPT was HIGHLY helpful since I only used it to reassure myself that I met the requirements of listing the item name, description, values and mandatory or optional sub-items.

Thomas Bercasio - Team Lead

I used ChatGPT to run through different potential risks that our project could have. This allowed me to identify some types of risks I wasn't aware of such as Non-compliance with regulations under legal risks as well as many different types of potential security risks like DDOS attacks and SQL Injection. ChatGPT was pretty helpful in identifying things I did not think of initially when it came to work on this project.

Suzanna Li - Front End Team Lead

I used ChatGPT for some mockups and it was not very helpful. I realized that I had specific visions for the storyboard and site pages. While it was quite interesting seeing what chatgpt can do for the scenarios, I did not use any of the information it gave me.

Team and Roles

Name	Email	Role
Thomas Bercasio	tbercasio@sfsu.edu	Team Lead
Zarko Cosovic	zcosovic@sfsu.edu	Backend Lead
Jaylin Jack	jjack1@mail.sfsu.edu	Team Member Backend
Suzanna Li	sli47@sfsu.edu	Frontend Lead
Ken Chika	kchika@sfsu.edu	Github Master QA Engineer

Team Lead Checklist

So far all team members are fully engaged and attending team sessions when required.

Issue - Will have to reschedule weekly meetings to better fit members' changing schedules.

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

Team reviewed suggested resources before drafting Milestone 2

On Track

Team lead checked Milestone 2 document for quality, completeness, formatting and compliance with instructions before the submission

On Track

Team lead ensured that all team members read the final Milestone 2 Document and agree/understand it before submission.

On Track

Team shared and discussed experience with genAI tools among themselves

Done

Milestone 3

Team number: 7

Meeting date: 11/13/2024 at 6:00pm

- Summary of feedback on UI (record all pages that need revision)

Main issue with the UI was that the search had its own dedicated page and was not

implemented on every page. Additionally, text boxes for messages and profile
descriptions did

not meet expectations, so those needed to be reworked.

- Summary of feedback on code and architecture:

Main criticism in terms of code and architecture is that the way files are currently
implemented

leads to a lot of problems with pathing. Many directories and files have similar names.

- Summary of feedback on github usage:

Github usage is mostly even across team members. Everyone has a similar number of
commits,

main issues with github were non-descriptive and/or repetitive commit comments. In the
future

try to refrain from using comments like “Updated searchFunctions.js.” Instead use
commit

comments, like “Resolved issue with retrieving tutor data from DB in searchfunctions.js”

- Summary of feedback on DB:

DB Schema and test data is solid. However, the front and back end are not connected at
time of

Milestone 3 Review.

- Summary of feedback on teamwork and risk management:

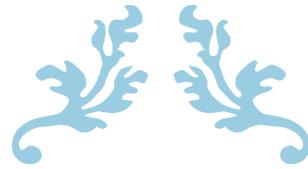
Team leader needs to be more firm with the team in setting deadlines for progress on the
application further utilizing tools like Trello to communicate responsibilities with team
members.

- Confirm that you have done architecture review to check that developers
adhere to MVC pattern, coding style, minimal agreed documentation etc.

Our team has kept up with documentation and has tried to implement UI/UX features according to the MVC pattern.

- List below agreed upon P1 list of features for final delivery which constitute product plan. NOTE: after this meeting the team focuses solely on this P1 list of features, e.g. the development is in “feature freeze mode”. All listed P1 features (no more no less) MUST be delivered in usable way, free of bugs and will be used for grading

- Implementation of search function on every page
- Implementation of registered user login
- Implementation of registration
- Implementation of image and video upload
- Implementation of messaging/inbox
- Integration of front and back end
- Any other comments and issues
- Check Point (CP) if given, DUE: 11/18/24
- Checkpoint is to integrate Front-end with Back-end and have the search function available on every page by Monday 11/18/24.



GATOR TUTORING - MILESTONE

4

SW ENGINEERING CSC 648-848 FALL 2024 Team 7



Thomas Bercasio <Team Lead> - tbercasio@sfsu.edu
Zarko Cosovic <Backend Lead> - zcosovic@sfsu.edu
Jaylin Jack <Backend Developer> - jjack1@mail.sfsu.edu
Suzanna Li <Frontend Lead> - sli47@sfsu.edu
Ken Chika <GitHub Master and QA Engineer > - kchika@sfsu.edu

Document History:
Submitted Draft: 12/10/24

Product Summary

Gator Tutoring

This website is designed to help SFSU students find tutors that can help them with whatever subject they are studying. The website has a clean user interface and is easy to navigate. The website also allows new tutors to register as service providers.

The tutoring website allows all visitors to search for tutors either by subject and/or tutor's values like name, description, and even SFSU courses. The visitor can then browse through the selection of tutors and see whatever information they have posted and find one they feel will best fit their needs. If a student would like to contact a tutor they will click our Register link and create an account using their SFSU email. Students using services and tutors providing services are SFSU students.

As for those looking to offer tutor help to SFSU students, follow the same registration steps above and visit our tutor application link. From there you will be able to apply as a tutor. This application is then approved or denied by our DataBase Admin, if approved their information will be added to the database of tutors available on the website.

Major Committed Function List

All site visitors shall be able to:

- Search for tutors by SFSU subject, SFSU course name, tutor's bio and tutor's name.
- View images and videos from tutor profile.

All Registered Users shall be able to:

- Apply as a tutor.
 - Upload a short Biography, Video and Images to the website.
 - Any uploaded content shall be approved by an administrator before being posted to the website.
- Message any tutor.
- Have a dashboard showing all received messages.

Other Functions

- Messages, Tutor Applications, and all data uploads shall be approved/rejected by Admin.

Our Website <http://18.118.85.170/>

Usability Test Plan

- Test Objectives: Test the effectiveness and the efficiency of the search on the website, as well as the user satisfaction with the search performance. The goals of this test are finding the accuracy and completeness of searching for a tutor, finding the resources expanded in relation to the accuracy and completeness of searching for a tutor, and receiving feedback on the comfort and acceptability of performing a search.
- Test Background and Setup:
 - System setup - The tester should either be on a laptop or mobile device with an internet connection.
 - Intended Testers - Usability testers are SFSU students who are seeking tutoring services.
 - URL - <http://18.118.85.170/>
 - Test Environment – Home, office, library.
- Usability Task Description: The tester will attempt to search for a tutor on the website using a subject, using a tutor's name, using a tutor's bio, and using all combinations of these options.
- Plan for Evaluation of Effectiveness: Effectiveness will be measured by the percentage of users who are able to successfully search for a tutor.
- Plan for Evaluation of Efficiency: Efficiency will be measured by the number of searches performed to obtain the desired result, and the time it takes to do them.
- Plan for Evaluation of User Satisfaction: The tester will be given a google form to fill out after their attempt at searching for a tutor on the website. This form will have a Likert Questionnaire rating their experience on a 1 - 5 scale. Additionally, this form also provides fields for additional feedback about their experience using the website.
- Link to Google Form for Usability Test: <https://forms.gle/m1KHLG68jCJPkUGZ7>

QA Test Plan

- Test objectives: - QA Testing will test the functionality of the search function. This test is to ensure that the website is returning the correct output. Test is to be performed using 2 major WWW browsers.
- HW and SW setup (including URL):

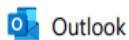
- System setup - The tester should either be on a laptop or mobile device with an internet connection.
- Intended Tester - Zarko Cosovic
- URL - <http://18.118.85.170/>
- Test Environment – Home, office, library.
- URL - http://18.118.85.170/
- Feature to be tested: Validation tools to limit the kinds of input a user has.
- QA Test plan:

Test Number	Test Title	Test Description	Test Input	Expected Correct Output	Test Results (PASS/FAIL for each testing browser)
1	Search by Name Test	Test searching for a registered tutor by name	Type “Kim Mari” in the search field and click submit	Get one result of a math tutor, whose name is “Kim Mari”, and the bio states “i love math”	PASS on Chrome Version 131.0.6778.140 (Official Build) (64-bit). PASS on Microsoft Edge Version 131.0.2903.99 (Official build) (64-bit)
2	Search by Subject Test	Test searching for a registered tutor by subject	Type “Math” in the search field and click submit	Get four results of math tutors, whose names are “Kim Mari”, “Ned Flanders”, and “Jerry Shaw”, and “Steve Clifford”	PASS on Chrome Version 131.0.6778.140 (Official Build) (64-bit). PASS on Microsoft Edge Version 131.0.2903.99 (Official build) (64-bit)
3	Search by Name Test	Test search using a name which is not in the database	Type “John Smith” in the search field and click	Get a a list of all 10 tutors available	PASS on Chrome Version 131.0.6778.140

			submit		(Official Build) (64-bit). PASS on Microsoft Edge Version 131.0.2903.99 (Official build) (64-bit)
4	Search by Name and Subject Test	Test search using a Name and Subject at the same time	Type “Ned Flanders” in the name field, and type “Math” in the subject field and click submit	Get one result of a math tutor, whose name is “Ned Flanders, and the bio states “Math major”	PASS on Chrome Version 131.0.6778.140 (Official Build) (64-bit). PASS on Microsoft Edge Version 131.0.2903.99 (Official build) (64-bit)

Report: The website initially failed the first test, which helped locate a bug involving the regex pattern used to validate alphanumeric inputs. After resolving the issue, all tests passed.

Peer Code Reviews



Code Section for Peer Review

From Jaylin A Jack <jjack1@mail.sfsu.edu>

Date Tue 12/17/2024 10:37 AM

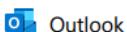
To Zarko Cosovic <zcosovic@sfsu.edu>

Hello Zarko, this is your team 7 groupmate Jaylin Jack. I would love a review for this critical section of code.

Below is the link for dbFunctions.js which connects our DB and had other functions to meet necessary p1 functions.

[csc648-fa24-03-team07/application/public/src/functions/dbFunctions.js at develop · CSC-648-SFSU/csc648-fa24-03-team07](https://csc648-fa24-03-team07/application/public/src/functions/dbFunctions.js)

Let me know what needs any improvement or any clarifications needed. Thank you in advance.



Re: Code Section for Peer Review

From Zarko Cosovic <zcosovic@sfsu.edu>

Date Tue 12/17/2024 11:35 AM

To Jaylin A Jack <jjack1@mail.sfsu.edu>

Dear Jaylin,

I reviewed your code, and I must say that I am impressed. I found the header and in-line comments to be clear and sufficient. I like the fact that global variables are defined at the top of the file, as this is a proper coding practice. Your variable names are meaningful, which makes the code easier to understand. I appreciate the consistency in your naming of methods and variables. Database queries are specific, and detailed, and show solid understanding of database features. Your commit comments on GitHub are concise.

Overall, your code shows great understanding of computer science and your readiness to work in the field.

Best of luck,

Zarko Cosovic

```

/*
JJ and query help from Chat-GPT
Get tutors by anded selected subject and search bar input
*/
function getTutorsBySearch(subjectSelected, search, callback) {
    // Like query is the search input from the user,
    // use %like search to search our tutor values.
    const likeQuery = `%${search}%`;

    // Access all datafields of any tutors that matches the input and subject selected
    // input from user can either search the bio, name of tutor, or courses tutor teaches.
    // Keep in mind we only show approved tutors
    connection.query(
`SELECT ru.name AS tutor_name, t.subject, t.tutor_id, t.reg_user_id, t.bio, t.courses, t.photo, t.video
    FROM tutor t
    JOIN registered_user ru ON t.reg_user_id = ru.registered_user_id
    WHERE t.subject = ? AND (t.bio LIKE ? OR ru.name LIKE ? OR t.courses LIKE ?) AND t.approval_status = 'approved'`
        ,
        [subjectSelected, likeQuery, likeQuery, likeQuery], (err, rows) => {
            if (err) throw err;
            const tutors = rows.map(row => ({
                id: row.tutor_id,
                reg_user_id: row.reg_user_id,
                subject: row.subject,
                bio: row.bio,
                courses: row.courses,
                name: row.tutor_name,
                photo: row.photo,
                video: row.video
            }));
            callback(tutors);
        });
}

```

```

/*
JJ and query help from Chat-GPT
Get tutors by only subject selected
*/
function getTutorsBySubject(subjectSelected, callback) {

    // Access all datafields of any tutors that matches the subject selected
    // Keep in mind we only show approved tutors
    connection.query(
`SELECT ru.name AS tutor_name, t.subject, t.tutor_id, t.reg_user_id, t.bio, t.courses, t.photo, t.video
    FROM tutor t
    JOIN registered_user ru ON t.reg_user_id = ru.registered_user_id
    WHERE t.subject = ? AND t.approval_status = 'approved'`, [subjectSelected], (err, rows) => {
        if (err) throw err;

        const tutors = rows.map(row => ({
            id: row.tutor_id,
            reg_user_id: row.reg_user_id,
            subject: row.subject,
            bio: row.bio,
            courses: row.courses,
            name: row.tutor_name,
            photo: row.photo,
            video: row.video
        }));
        callback(tutors);
    });
}

```

```

/*
JJ and query help from Chat-GPT
Get tutors by only search bar.
*/
function getTutorsByInput(search, callback) {
    // Like query is the search input from the user,
    // use %like search to search our tutor values.
    const likeQuery = `%${search}%`;

    /*
        Access all datafields of any tutors that matches the search bar input
        input from user can either search the bio, name of tutor, or courses tutor teaches.
        Keep in mind we only show approved tutors
    */
    connection.query(
        `SELECT ru.name AS tutor_name, t.subject, t.tutor_id, t.reg_user_id, t.bio, t.courses, t.photo, t.video
         FROM tutor t
         JOIN registered_user ru ON t.reg_user_id = ru.registered_user_id
         WHERE (t.bio LIKE ? OR ru.name LIKE ? OR t.courses LIKE ?)
         AND t.approval_status = 'approved'`, [likeQuery, likeQuery, likeQuery], (err, rows) => {
            if (err) throw err;
            console.log(rows);
            const tutors = rows.map(row => ({
                id: row.tutor_id,
                reg_user_id: row.reg_user_id,
                subject: row.subject,
                bio: row.bio,
                courses: row.courses,
                name: row.tutor_name,
                photo: row.photo,
                video: row.video
            }));
            callback(tutors);
        });
    });
}

```

```

/*
JJ
-----Essential for search-----
Retrieve the subjects from our DB
- used for our dropdown menu for search and tutor application.
This function is passed through each point of the website since search shall be able to exists on any page.
*/
function getSubjects(callback) {
    // Only need to list the names of each subject.
    connection.query('SELECT name FROM subject;', (err, rows) => {
        if (err) throw err;
        const subjects = rows.map(row => ({
            id: row.subject_id,
            name: row.name
        }));
        callback(subjects);
    });
}

```

```

/*
JJ and query help from Chat-GPT
-----Essential for homepage and search-----
Retrieve all approved tutors from our DB
- listed by recently added.
This function is passed through each point of the website since search shall be able to exists on any page.
*/
function getTutors(callback) {

  /*
    Access all datafields of tutors
    Keep in mind we only show approved tutors
  */
  connection.query(`

SELECT
  ru.name AS tutor_name,
  t.subject,
  t.tutor_id,
  t.reg_user_id,
  t.bio,
  t.courses,
  t.photo,
  t.video
FROM
  tutor t
JOIN
  registered_user ru
  ON t.reg_user_id = ru.registered_user_id
WHERE
  t.approval_status = 'approved'
ORDER BY
  t.tutor_id DESC;`, (err, rows) => {
  if (err) throw err;
}

```

```

/*
JJ and entire function help from Chat-GPT
-----Essential for dashboard-----
Retrieve all approved messages for the logged in user from our DB

*/
function getMessages(userId, callback) {
  // Query to fetch messages where the user is the recipient
  connection.query(`

SELECT m.content, ru.name AS sender_name
FROM message m
JOIN registered_user ru ON m.sender_id = ru.registered_user_id
WHERE m.recipient_id = ? AND m.approval_status = 'approved'`, [userId], (err, rows) => {

  if (err) {
    console.error(err); // Log any errors
    return callback([], []);
  }

  const messages = rows.map(row => row.content); // Extract content
  const senders = rows.map(row => row.sender_name); // Extract sender names

  // Call the callback function with the messages and senders arrays
  callback(messages, senders);
});
}

```

Self-Check on Best Practices for Security

Asset to be protected	Types of possible/expected attacks	Consequence of Security Breach	Strategy to mitigate/protect the asset
User's passwords	Registered User's accounts being hacked.	Unauthorized access to our users will be given.	All passwords are encrypted when entered to our DB.
Terms of service agreement	Lawsuit.	Leaves you liable to be sued.	Registration Page requires TOS agreement.
Communication between users	Unauthorized users contacting our tutors	Inappropriate messages can be sent to our tutors	Messaging requires the user to be logged in.
Data Upload and Message Content	Inappropriate content being posted on our website	Integrity of our site will be lost.	Starts in a pending state and needs Admin approval to go live on the website.
Search Input	SQL Injection	Unauthorized access to certain DB values	Allow up to 40 alphanumeric characters for search.
Registration	SQL Injection and more	Unauthorized users allowed to use SFSU exclusive functions	Registration Page validates only emails ending in "@sfsu.edu"

Self Check of the Adherence to Original Non-Functional Specs

Done

1. Application shall be developed, tested, and developed using tools and servers approved by Class CTO and as agreed in Mo.
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 (no native app to be developed)
4. Posting of tutor information and sending messages to tutors shall be limited only to SFSU students.
5. Critical data shall be stored in the database on the team's deployment server.
6. No more than 50 concurrent users shall be accessing the application at the same time.
7. Privacy of users shall be protected.
8. The language used shall be English (no localization needed).
9. Web application shall be easy to use and initialize.
10. Web application shall follow established architecture patterns.
11. Web application code and its repository shall be easy to inspect and maintain.
12. Google Analytics shall be used.
13. No email clients shall be allowed. Interested users shall only be able to message sellers via in-site messaging. One round of messaging (from user to seller) is enough for this application.

14. Pay functionality, if any (e.g. paying for goods) shall not be implemented nor simulated in UI.
15. Site security: basic best practices shall be applied (as covered in class) for main data items.
16. Media formats shall be standard as used in the market today
17. Modern SE processes and tools shall be used as specified in the class, including collaborative and continuous SW development and GenAI tools.
18. The application UI (WWW and mobile) shall prominently display the following exact text on all pages "SFSU Software Engineering Project CSC 648-848, Fall 2024. For Demonstration Only" at the top of the WWW page Nav bar. (Important so as to not confuse this with a real application).

Use of GenAI Tools

Jaylin Jack - Backend Team Member

I used ChatGPT 40 mini to try to help my team meet the < 50 concurrent users on our site at once requirement. I asked ChatGPT how to make sure that my website wouldn't allow more than 50 users at one time using node and I was prompted to use ioredis I believe and it did not work whatsoever. I would say the use of ChatGPT was not helpful since I was not able to make this security requirement work using that method.

Thomas Bercasio - Team Leader

I used ChatGPT 40 mini to generate a list of questions to ask when conducting the usability test. It seemed for the most part to follow a lot of what was covered in the class lectures when it generated the questions and the categories they should belong to like ease of use, efficiency, satisfaction, etc. Overall for this use case, I would rate GenAI very highly.

Additionally, I also used this version of ChatGPT to generate a QA test plan for the feature we were going to test. It delivered an entire article covering a number of things we should go over when it came to creating tests for that function of the application. For each test ChatGPT also recommended test cases to go with them. Once again, I would rate GenAI very highly for this use case.

Zarko Cosovic - Backend Lead

I used ChatGPT 40 mini when working on planning and documentation of Usability testing and QA testing. I asked questions in general terms, and ChatGPT returned very detailed and well structured information on writing documentation for Usability and QA testing. The results were helpful, but there were too many suggestions, possibly because my questions were too general.

Suzanna Li - Frontend Lead

I used ChatGPT to help with finalizing the designs we did. It was not very helpful. The answers it gave were too general. I wanted to know if the colors on the site was good enough for colorblind people to view. It may not be a requirement but I believe it is important to create a site that is easily viewed by everyone. I consulted a colorblind test site instead of the results I got from chatgpt.

Product Screenshots

The screenshot shows the homepage of the Gator Tutoring website. At the top is a purple header with the Gator Tutoring logo, which features a green alligator head and a red open book, with the text "GATOR TUTORING" below it. Below the logo is the text "CSC 648-848 Fall 2024 Team 7" and a small note: "SFSU Software Engineering Project CSC 648-848, Fall 2024. For Demonstration Only". The main content area has a yellow header bar with a house icon, a search bar, and links for "Tutor Application", "Dashboard", "About Us", "Login", and "Register". A dropdown menu from the search bar shows categories: "All", "COMPUTER SCIENCE" (which is selected), "MATH", and "SCIENCE". Below this, there are three tutor profiles:

- Tutor Name:** Steve Clifford
 [Tutor Image](#)
- Video:**
No video available for this tutor.
- Description:** I love CS!
Courses: CSC210, CSC340, CSC600
Subject: COMPUTER SCIENCE
- Message** (green button)

Tutor Name: Steve Clifford



Video:



Tutor Name: Thomas Bercasio



Video:

No video available for this tutor.

Description: I am mad computer Scientist.
Courses: CSC 510 CSC 520 CSC 675
Subject: COMPUTER SCIENCE

Message (green button)



Login

"SFSU Software Engineering Project CSC 648-848, Fall 2024. For Demonstration Only"



AI

Search For Tutors



Tutor Application

Dashboard

About Us

Login

Register

You must log in to access this page.

Email:

Password:

Remember Me?

[Forgot your password?](#)

Don't have an account? [Register here](#)

← → G Not secure http://18.118.85.170/registration

My Books - Google... YouTube TPBvirus's Dashboard My Shelf | Brytewav...

All Bookmarks



Registration

"SFSU Software Engineering Project CSC 648-848, Fall 2024. For Demonstration Only"

Welcome Back!

AI Search For Tutors

Tutor Application Dashboard About Us Login Register

Name:

Email:

Password:

Confirm Password:

I agree to the [terms & conditions](#)

Register

Already have an account? [Login here](#)

The screenshot shows a web browser window with the URL http://18.118.85.170/tutor_application. The page has a purple header with the title "Tutor Application" and a subtitle "SFSU Software Engineering Project CSC 648-848, Fall 2024. For Demonstration Only". Below the header is a yellow navigation bar with a house icon, a dropdown menu labeled "AI", a search bar, and links for "Tutor Application", "Dashboard", "About Us", and "Logout". The main content area is titled "Tutor Application" and contains several form fields:

- Pick a Subject:** A dropdown menu showing "SCIENCE".
- Bio:** A text area containing "Physics is my passion".
- Courses:** A text area containing "Phys228".
- Upload Photo (50MB Limit. JPEG, PNG only):** A file input field showing "Choose File SteveLeung.jpg".
- Upload Video (50MB Limit. MP4 only):** A file input field showing "Choose File No file chosen".

← → ⌂ Not secure http://18.118.85.170/search/tutors?bio=math

My Books - Google... TPBvirus's Dashboard My Shelf | Brytewav...

All Bookmarks


GATOR TUTORING

CSC 648-848 Fall 2024 Team 7

"SFSU Software Engineering Project CSC 648-848, Fall 2024. For Demonstration Only"

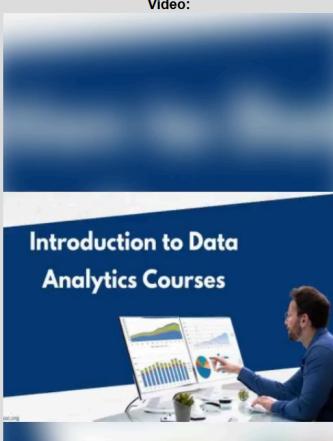
[Home](#) [AI](#) [Tutor Application](#) [Dashboard](#) [About Us](#) [Logout](#)

Tutors Available: 4

Tutor Name: Jerry Shaw



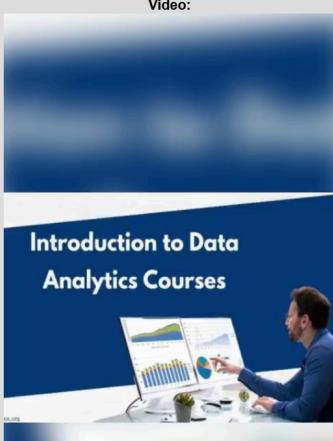
[Video:](#)



Tutor Name: Ned Flanders



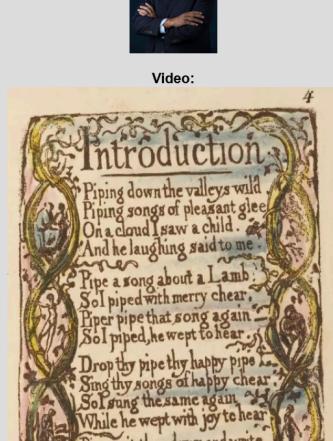
[Video:](#)



Tutor Name: Kim Mari



[Video:](#)



← → G Not secure http://18.118.85.170/messaging/2

My Books - Google... TPBvirus's Dashboard My Shelf | Brytewave...

All Bookmarks



Messaging

"SFSU Software Engineering Project CSC 648-848, Fall 2024. For Demonstration Only"

AI ▾ Search For Tutors 

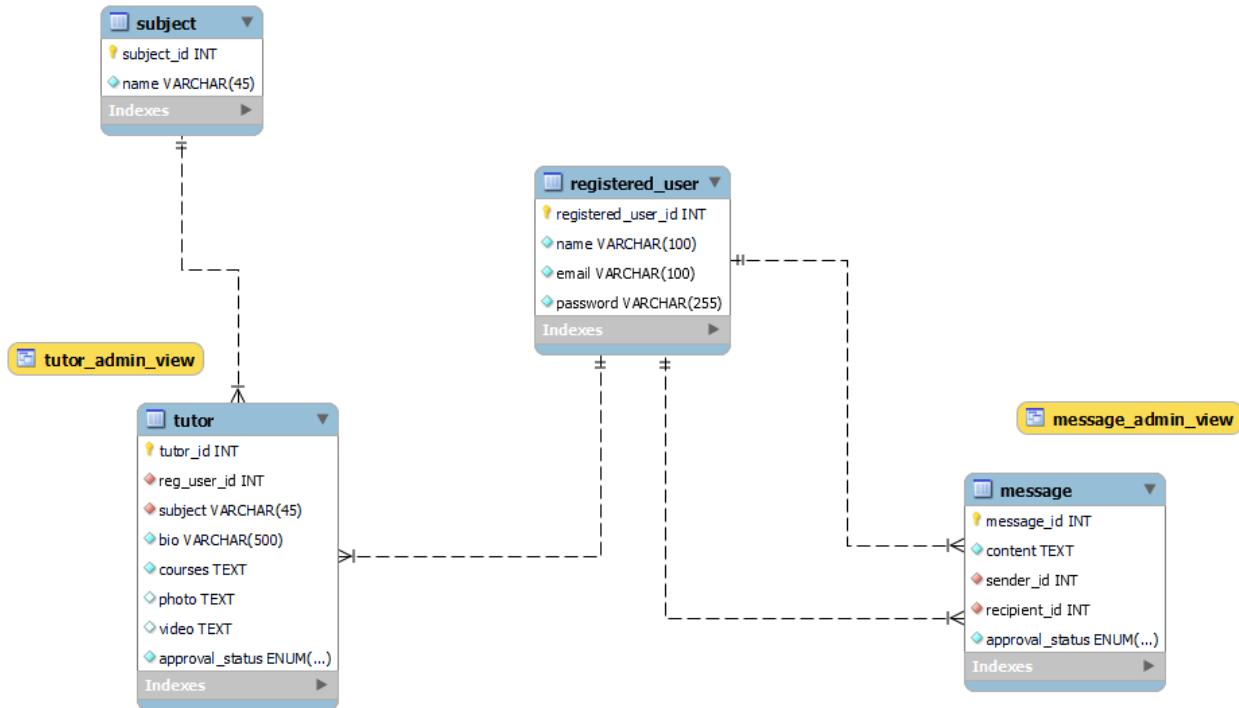
Tutor Application Dashboard About Us Logout

Messaging

Message:

 Submit

Database Organization



Github Organization

The main branches of the Github repository for this project were the Master and Develop branches. This is where a majority of changes would be recorded. There were other smaller branches primarily used by the Front-end Team to test different features for the user interface for the website. The Back-end Team primarily made most of the changes on the Develop branch before making a few pulls to the Master branch when code was working as intended.

As for restrictions to the master branch, the only people who could push to the master branch or merge other branches into the master branch were our Github Master, Ken Chika, and the Team Lead, Thomas Bercasio.

Below is a current screenshot of the Develop Branch:

csc648-fa24-03-team07 · [Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

Don't get locked out of your account. [Download your recovery codes](#) or [add a password](#) so you don't lose access when you get a new device.

csc648-fa24-03-team07 · [Private](#)
forked from [csc-648-stu-csc-648-section-03-fall-2024-csc648-base-repo](#)

[Watch](#) [Fork](#) [Star](#)

[develop](#) [Branches](#) [Tags](#) [Go to file](#) [Add file](#) [Code](#) [About](#)

This branch is 177 commits ahead of [main](#).

[Contribute](#) [Sync fork](#)

Commits

- jaylin** Added functionality for results video matching homepage styling [e0e540c](#) · 2 hours ago
- ideas** Removal of unnecessary image files [last month](#)
- Milestones** Add file via upload [2 weeks ago](#)
- application** Added functionality for results video matching homepage [2 months ago](#)
- credentials** Update README.md [2 months ago](#)
- DR_Store** home page created [2 months ago](#)
- LICENSE** initial commit [4 months ago](#)
- README.md** Update README.md [3 months ago](#)

[README](#) [License](#)

csc648 Repository

Please when ready add your teams application URL or IP to the repository description. This will help with grading. Teams are expected to keep this value up to date.

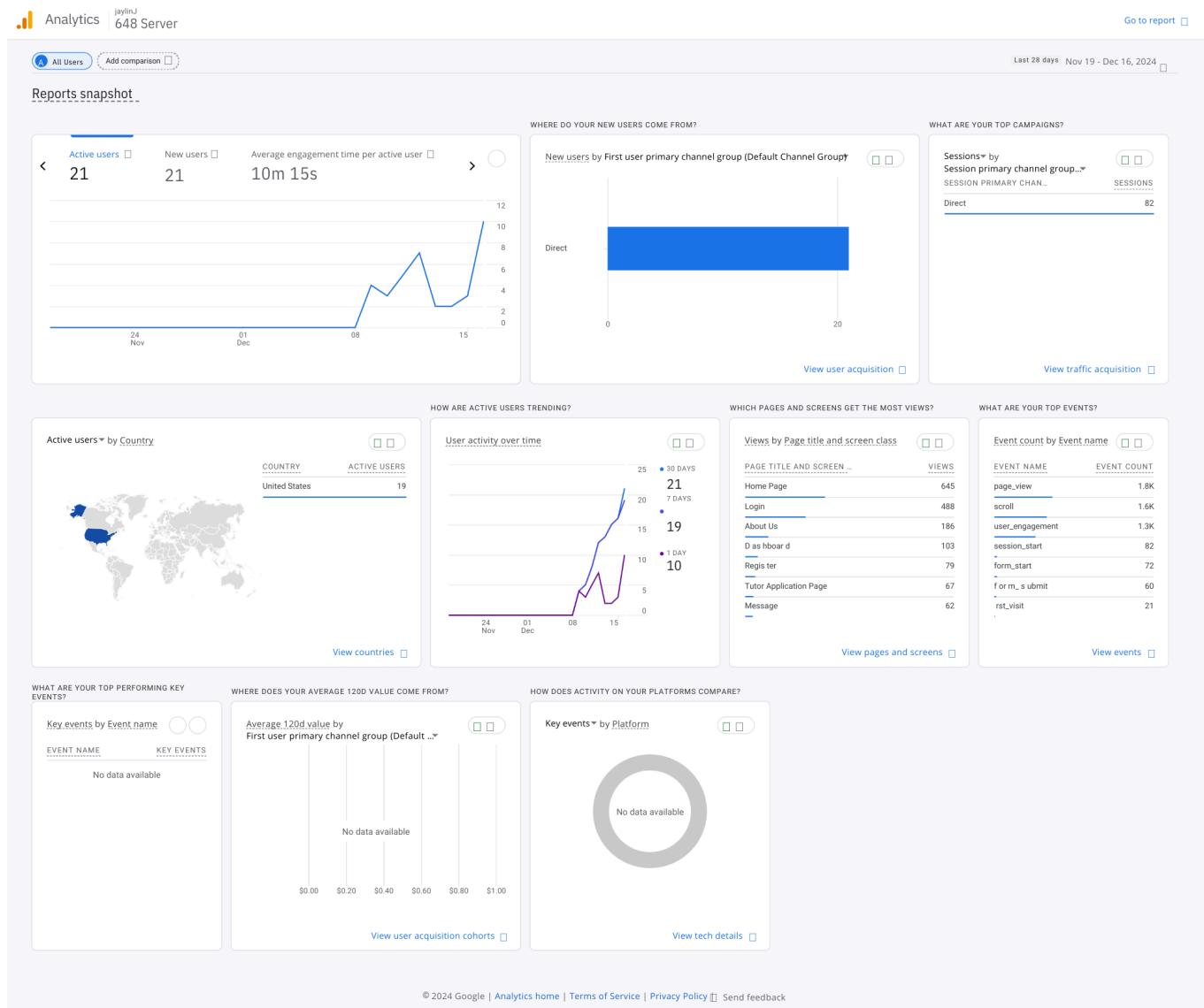
Please do the following steps before completing Milestone 0.

1. Change the name of the repository. All that needs to change is the NN to your respective team number. Team numbers whose value is less than 10, please pad with a 0. Ex team 1 is Team01 team 11 is Team11. Please make sure to also remove the username from the repository as well. Teams with incorrectly named repository will have points deducted from their milestone 0 grades.
 - o Please follow the naming convention assigned by your instructor.
2. PLEASE REMOVE THE USERNAME FROM THE REPOSITORY NAME!!!
3. Add ALL members of your team to this repository. For it to count, they must ACCEPT the invite.
4. Fill out the table below

Student Name	Student Email	GitHub Username
Thomas Bercaš	bercasst@sfu.edu	TPBvirus
Suzanna Li	sli47@sfu.edu	suzi-li
Ken Chika	kchika@sfu.edu	ekmchika
Zarko Cacicovic	zccicovic@sfu.edu	CacicovicZarko
Jaylin Jack	jjay51@mail.sfu.edu	jaylin!

NO code needs to be stored in the root of your repository. You may rename the application folder if you like to your team's application name. But all source code related to your team's application should be stored inside the application folder.

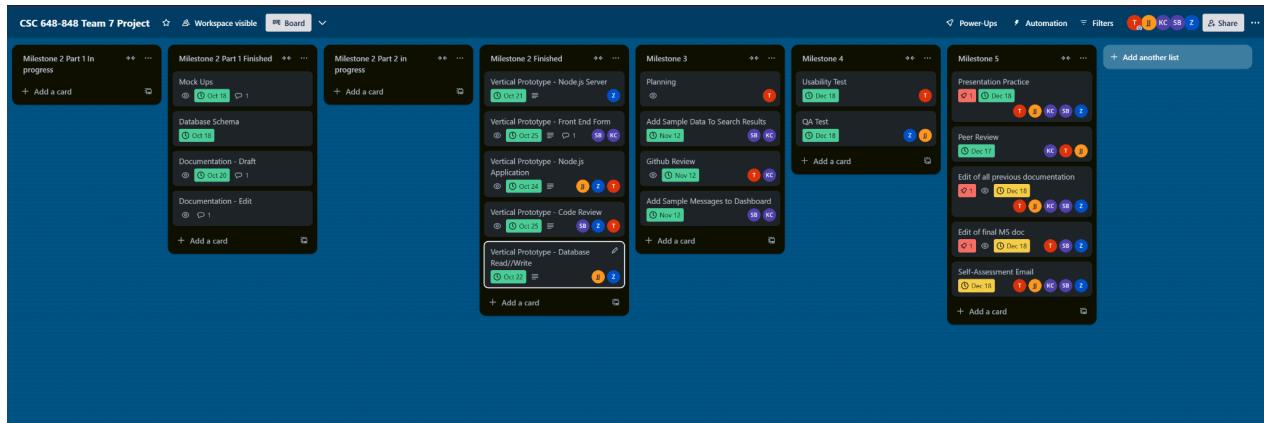
Google Analytics



Project Management

As mentioned before in milestone 2, we used Trello to manage what tasks each member was assigned. As for communication, our primary source of communication outside of in-person meetings every Wednesday was via Discord. Below are some screenshots of

our Trello board as well as the Discord Server where we discussed what to do with the projects and made announcements throughout the semester.



Team 7 Project # bulletin-board Announcements go here

Thomas 12/4/2024 4:04 PM @everyone next week is the final heads up and finals week we present instead

December 13, 2024

Thomas 12/13/2024 2:50 AM <https://docs.google.com/document/d/19kf6X0goOcxuZh1SwjQZCv2gPjPoI/edit>

Google Docs

CSC648-848 Fall 2024 Milestone 4.docx

CalTutoring - Milestone 4 SW Engineering CSC 648-848 Fall 2024 Team 7 Table of Contents Executive Summary 2 Main Entities & Data Items 3 Functional Requirements - Prioritized 7 UI/UX Storyboards and Mockups 10 High Level Architecture and Database Organization 22 Risks 24 Project Management...

<https://docs.google.com/document/d/16pIDJ-9z7fKkyH0xL-zrJUqDFn9JUDFTySlbpnn8/edit?usp=sharing>

Google Docs

Usability Plan

Usability Test Test Objectives: Test the ease of use and efficiency of becoming a registered user for the tutoring website. This function is being tested in order to get feedback on how to improve the user experience when attempting to become a registered user. Test Background and Setup: System ...

@everyone posted milestone 4 and QA/usability plan docs (edited) over the weekend I'll also get started with the milestone 5 doc as well

Thomas 12/13/2024 3:15 AM @Thomas <https://docs.google.com/document/d/19kf6X0goOcxuZh1SwjQZCv2gPjPoI/edit> can edit and I already started the m4 doc

Vitra Virus Online

Message #bulletin-board

Team Member Self Assessment And Contributions

Self Assessment for Milestone 5

TB

Thomas P Bercasio

To: Ⓜ Zarko Cosovic; Ⓜ Suzanna Xinrou Li; Ⓜ Ken Kene Chika; Ⓜ Jaylin A Jack



Tue 12/17/2024 9:48 PM

Hey guys,

Thank you for your support throughout this semester. Honestly, I was surprised to be selected as a team lead, and I'm grateful to have had you guys with me. So yeah let's go over my self-assessment:

a) Contributions (Team Lead):

- a. Project organization and delegation of tasks to make steady progress toward the final product.
- b. Lead team discussions about the project.
- c. Provided technical insight for tech stack, providing documentation, coding examples, and feedback on code.
- d. Full-stack development helping both front and back-end teams integrate with one another.
- e. Managed Github and its use alongside Github master.

b) Dev Branch Commits: 32

c) Main Challenges:

- a. One of the main challenges I faced with this project definitely came from the responsibility of integrating what were essentially two different projects into one cohesive product. The front and back end teams worked on things separately and had different ideas as to what was expected of the other team, so a lot of my struggles with making sure we stayed on track to finish the project on time was bringing their two visions together. Which on a technical level, meant taking on more of the role of a full-stack developer who had to know things like how to handle CSS rules and HTML to give the site structure and work with the front-end team to make the site look good, while also learning the back-end tech stack with things like Node and MySQL to interact with the front end to display data from the server. As team lead, I felt obligated to try and work on a number of different parts of the project in this way in order to make things more cohesive.

d) GenAI:

- a. Overall, I was pretty averse to using GenAI to solve problems when it came to this project. However, for some issues like when it came to asking about security risks and setting up things like the Usability Tests, it was an invaluable resource in helping me save time on the meticulous task of researching and planning out these things, freeing up extra time to be productive in other areas of the project like fixing some of the UX issues or identifying and resolving problems that needed to be addressed.

e) Improvement:

- a. I think that in the future, I would've liked to be more hands on with coding and making contributions to the website as a developer. In the end I don't think I contributed that much code to the project. Unfortunately, just due to the circumstances of this semester, and the burden that was placed on me having to do multiple big projects for different classes, I didn't meet the expectations I had for myself, and I did the best with whatever time I had.

As a team lead though, I think the biggest place I could've improved upon is being more diligent when it came to trying to understand the requirements for whatever document was given to me. I think I did not spend enough time reading and examining the material carefully, and as a result my team ended up suffering for it due to my own lack of awareness. In latter documents like milestone 3, 4, and 5, I think I improved in this regard, but the comments and criticisms from milestones 0, 1, and 2 really showed my weakness when it came to trying to understand and communicate what was being asked of me from Professor Petkovic in those documents. The threat of negative points towards the software engineering process grade really helped to light a fire to push me in the right direction.

Best,
Thomas Bercasio

Self Assessment for Milestone 5

Zarko Cosovic
To: Thomas P Bercasio; Jaylin A Jack; Suzanna Xinrou Li; Ken Kene Chika
Tue 12/17/2024 10:41 PM

Hey team,

My contributions as a back-end lead are as follows:

- a) I helped with writing milestones text sections, coming up with functional and non-functional requirements, editing milestones according to the professor's comments, writing Test Usability and QA test sections. I did the peer code review, and I wrote server-side and client-side code. I created initial login, registration, dashboard, messages, tutor application, loading images, and search functionality.
- b) I had 38 commits to GitHub repository.
- c) My main challenge in the team project was learning to use the tools for the project. I had to learn Express in order to use its functions to load pages and transfer data between Client-side and Server-side. I had to learn EJS in order to write JavaScript code inside an HTML file outside the script tag, and I had to learn to use several packages.
- d) My overall experience with GenAI was good, as it helped me come up with QA test cases, but it did give me too many suggestions, some of which seem too involved for a school project.
- e) Next time I would be much faster in creating solutions for a project, because I have learned many technical and strategic approaches to a computer science project.

Best,
Zarko Cosovic

[Reply](#) [Reply all](#) [Forward](#)

Jaylin Jack - Team Member Self Assessment and Contributions

JJ

Jaylin A Jack

To:  Zarko Cosovic;  Suzanna Xinrou Li;  Thomas P Bercasio;  Ken Kene Chika

    |  |  | ...

Tue 12/17/2024 9:03 PM

A.)

Back-End Team Member

Assurance of all non-functional requirements for app.

Heavy coding work in all files for back end dev.

Provided clear GitHub comments for all commits

Active during discord at all times

Attentive to and during meetings

B.) Number of submissions: 71

C.)

My first challenge that I faced during this project was when we had to get the DB connected to the server. I was very ignorant to the fact that I needed to create a way to sign into a server then create the database using ssh tunnel linking it to the server's ip address. Another challenge I faced was securing the server from more than 50 concurrent users since the only way we track sessions is by logged in users which doesn't account for all site visitors.

D.)

GenAI was my best friend during this entire project. I believe the hardest part of this project was getting started, especially after the issues with the DB GenAI helped me with queries and how to communicate with ejs files. All of these things I listed are things I have no experience in and got great information and skills from GenAI.

E.)

I believe the SE management is very much needed as it is great to get an idea of what is needed and think of a plan to meet the requirements. If I could go back in time I would go over how to get started initially for the project as this was the hardest part for me. If we had a DB setup with a consistent server IP address from the start our management would have been much more improved.

F.)

I would want instructors to know that I learned a lot from this project and course in general.

Get [Outlook for iOS](#)

 Reply

 Reply all

 Forward

Milestone 5

 Suzanna Li <durianpirate@outlook.com>

To:  Thomas P Bercasio;  Zarko Cosovic;  Ken Kene Chika;  Jaylin A Jack

Tue 12/17/2024 11:58 PM

 This sender durianpirate@outlook.com is from outside your organization.

[Block sender](#)

Hello team7!

How is everyone doing? This email is about the self-assessment for the project we all worked on this semester!

A) Front End Team Lead

- 1. About Us Html
- 1.5. About Us Card hovering html
- 2. Member Html
- 3. Dashboard Html
- 4. Messaging Html
- 5. Messaging pop up for demo
- 6. Search Page (Not used)
- 7. Css for page
- 8. Cleaned up the code
- 9. Help with formatting with some of the mile stones

B) Github submissions: 29

C) One main challenge was that I was not well versed in leading anything in programming. This has taught me a lot! This team helped me develop more confidence in my skills as both a front-end developer and Lead.

D) I used genAI with the assignments we had. It was a great tool to use but not super reliable. I used it to help me with clarification on design choices and some css and html code. Overall, I think I would use it to help me with coding specific functions rather than design the css code.

E) Something I will do better next time would to assign parts of the code better. I think I had trouble with figuring how to split the code with others. I will definitely be applying what we learned in class in the future.

F) I did not have a lot of submissions because of the amount of code I would push all at once to the development branch itself. I did create a lot of other branches from the development branch and committed there.

Thank you for being such great team members. We got this!

[Reply](#) [Reply all](#) [Forward](#)

 Ken Kene Chika

To: Ⓜ Thomas P Bercasio; Ⓜ Jaylin A Jack; Ⓜ Zarko Cosovic; Ⓜ Suzanna Xinrou Li

Tue 12/17/2024 11:01 PM

Hey guys,
Below is my self-assessment for our team project as the GitHub Master/QA tester:

A. Contributions to the Team Project:

- Managed and organized GitHub branches, including setting restrictions and ensuring proper branch usage.
- Assisted team members in navigating GitHub and reviewed submission comments for clarity and specificity.
- Performed a QA test to ensure the website runs successfully.
- Contributed to front-end development by helping design the UI during the early stages and building the website foundation in later stages.

B. GitHub Submissions:

- a. Made 17 commits to the GitHub Dev branch.
- b. The count is lower because my primary duties included branch management, assisting team members in frontend, and involved in QA testing.

C. Main Challenges:

- a. Setting up restrictions to limit access to the master branch.
- b. Resolving issues with retrieving and replacing older commits.

D. GenAI Usage:

- a. Used GenAI extensively to generate storyboards and mockup ideas for our tutor application.
- b. It also helped with CSS and layout design for the website interface.
- c. Provided solutions to GitHub management challenges, as mentioned earlier.

E. Lessons Learned and Improvements for Next Time:

- a. Next time I will pay closer attention to professor requirements for each milestone.
- b. Review work multiple times to ensure all requirements are met.

F. Additional Notes:

- a. I have gained a lot of knowledge completing this project, and I believe it has helped improve my understanding of working in a team setting in the software development field. Applying what I learned from this class will be very beneficial for me when working for a company in the future.

Best regards,
Ken Chika

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