

SW Engineering CSC 648/848 Fall 2021

Milestone 5

Golden Tutors

12/15/21

<http://team2-app-dev-env-he.us-west-1.elasticbeanstalk.com/>

Team 02

Team members:

Alberto Ramirez, Team Lead (aramir18@mail.sfsu.edu)
Emily Do, Front End Lead
Shailendra Hamal, Front End Dev
Thomas He, Back End Lead (the2@mail.sfsu.edu)
Abhijai Singh, Back End Dev
Raymond Zuo, Github Master

2) Product Summary

Golden Tutors

Golden Tutors is a website strictly for SFSU students who need extra help in their classes. Golden Tutors make it easy for students to find tutors that are available and ready to help in whatever class they are struggling in. Golden Tutors make it simple for students to reach out to tutors and organize a study session. Golden Tutors also gives the option to sign up as a tutor and help others, with customizable profiles, Golden Tutors make it a personable experience to find the right tutor.

P1 LIST:

- Search function
- Login
- Registration
- Sign up as a tutor
- Message tutor

URL: <http://team2-app-dev-env-he.us-west-1.elasticbeanstalk.com/>

3) Milestone Documents

Milestone 1

SW Engineering CSC648/848 Fall 2021
Milestone 1
Golden Tutors
10.9.21

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Summary

Our website Golden Tutors is created for San Francisco State students interested in getting extra help with their courses from real, well qualified tutors. We strive to make it simple and easy for busy students to schedule sessions with tutors. On the other hand we also would like to make the tutors be comfortable helping in courses and having their time and work taken into account.

Golden Tutors will allow tutors to set their price points and choose what SFSU courses they would like to help in. We want to make sure tutors and students are compatible. Tutors will be required to make a profile where they can provide information about their education backgrounds, expertise, completed courseworks, and any fun facts about themselves. Students will be able to use a variety of filters that will narrow down the results for classes and find the right tutor. Filters will bring up results such as upper or lower division courses, scheduling to make sure tutoring sessions can be attended even in busy times, price-points, and gender so that students feel as comfortable as possible. These filters and search functions will be designed to fit SFSU students' needs as its priority.

The Golden Tutor's team, Team02, is made up of six San Francisco State Students. The team lead, Alberto Ramirez, a senior majoring in computer science, looking forward to graduation and taking on real world roles in the tech industry. His background consists of several retail jobs specifically in sales of different technical devices. Emily Do, front end lead, is a senior computer science major. She has never worked in a team of this size before and is looking forward to seeing how things are structured for larger projects. Shailendra Hamal, front end dev is a senior majoring in computer Science. He has never worked on any big project and is willing to work and learn. Thomas He, back-end lead, is a senior and aspiring developer. His main relatable experience comes from working in a development team as an intern. Abhijai Singh, back-end developer, is also a senior Computer Science major with some experience working in group projects. The majority of his technical experience has come in the form of data analyst intern roles with startups in the Bay Area. Raymond Zuo, is the github master for this project. This is his first time working on a management role of any kind and is trying to get as much experience with working with git as possible out of this team project.

Personas



Joyce Taylor

Admin

Background

Joyce is an admin for the site. She is a very friendly person and loves to engage in different hobbies and keep busy. She stays very active, her favorite pastime is to go hiking and running with her dogs. She has worked in the tech industry, managing teams and knows her way around computers.

25

San Francisco, CA

Admin

Needs

- Site needs to be organized. If there are many pending posts that need approval, there should be no clutter.
- Removing items off the website should be easy with no errors. If there are any posts or users that are harmful or inappropriate, removal of the items should be instant.
- Wants to be respectful to others. Needs site to disable the ability to edit and change users information.



Greg Harper

Tutor

Background

Greg is a tutor for the site. He is a graduate student at San Francisco State University. He loves to help others and is heavily involved in his community. He volunteers at the boys and girls club and at various soup kitchens. He is a very kind person and wants to tutor to make a little money on the side.

27

Oakland, CA

Graduate Student

Needs

- Needs options, would like to be able to choose what courses he can tutor in.
- Wants potential clients to be able to relate with him and feel comfortable around him, needs to be able to give a description of who he is, and a background of himself.
- Needs to make sure his work and time is valued. Needs to be able to set his prices.



Ava

Non-Registered User

Characteristics:

Ava is a 22 year old college student. She is concerned about her grades.

Goals:

Ava is looking for help. She wants to find a tutor, but does not know which site to use. She is in the process of comparing the sites she has found so far.

Pain Points:

Ava does not like sites that force her to sign up before being able to gauge if she will actually use the site. She prefers to be able to get a preview of how the site will work, and if it will suit her needs.



John

Registered User

Characteristics:

John is a 23 year old college student. He is very busy and studies a lot.

Goals:

John's homework is confusing him and he needs someone to explain certain concepts or problems to him. He wants to be able to communicate with a real person knowledgeable about his class.

Pain Points:

John is very busy and is on a tight schedule. He needs flexibility with his tutors and somewhat fast replies in case his homework is due soon or he has a test coming up.

Use Cases

CASE 1: An unregistered user is looking for a tutor and browses the service

Actor: Ava

- Use Case 1: A student, Ava is struggling in lectures and needs tutoring for his SFSU Math 324 class. She has gone to other tutors for lessons similar to Math 324, but they cannot help him with his Math 324 specific problems. She goes onto Golden Tutors and browses the Math section through search. She looks at the tutor information and sees that the tutor teaches Math 324 specific lessons. Ava reads the reviews from other students who were tutored by the same tutor. She is interested, but has no way of contacting said tutor. She decides to register as a SFSU student and get a tutor for Math 324. Not everyone can gain access to being a student, so only those that have a @sfsu.edu email and SFSU ID can successfully be verified. Ava enters her information, and then an email will be sent to Ava to verify his email, and she will then gain permissions that will let her contact tutors and review their page if she has received their service. Ava will now be able to get help for her class through a good search and selection of a tutor.

CASE 2: A registered user is a student looking for tutoring from the service

Actor: John

- Use Case 2: (Scenario) John, a freshman at SFSU, purchases a tutoring service for CSC 210. He logs in to his account and searches for a tutor in CSC 210. John has found a tutor, Greg, a senior at SFSU, that could help him in his class, CSC 210. He adds the tutoring service to his cart. John will gain permissions to directly message Greg. Greg will get a notification about John's message, and Greg, who has taken CSC 210 and knows the material from when he took it, can either accept or deny the request. They can negotiate what hours to meet, what the rate will be, how to meet this way, and what material that the session will be for. Greg accepts. John now has a tutor for the exact material they teach in CSC 210, and Peter gets paid for teaching John. Both users are happy.

CASE 3 Scenario : New Tutor Registers With Golden Tutors

Actor : Greg Harper

- Use Case 3: (Scenario) A Tutor registers with Golden Tutors to create a profile and offer their services to students in need via our platform. Greg Harper is a graduate student willing to spend his time tutoring current undergraduate students in specific SFSU Computer Science courses. He first registers with his personal information and university credentials. Then he creates his external profile containing his Personal Bio, Profile Picture, Academic History and Achievements, and specific SFSU classes and/or subjects he wishes to specialize in. He can also choose to set/adjust his per hour rate with the company (Note : no transactions can be conducted on the platform), and his preferred hours of availability. Communication channels between tutor and student include links to Zoom and e-mail addresses can be opened at the discretion of Greg.

CASE 4 Scenario : Admin Responds To Reports About A Post

Actor : Joyce Taylor

- Use Case 4: (Scenario) An Admin is receiving reports about an inappropriate post made by a Registered Student on the Golden Tutors site. Joyce Taylor is the site admin for Golden Tutors, and she needs to take down a problematic post from the site created by a Registered Student that was reported by a Tutor. She logs into her Admin account, selects the post, and subsequently deletes the post after a thorough review of the content. If the Registered Student that created the post has been reported multiple times by Tutors for either misconduct or inappropriate behavior, Joyce has the ability if needed to disable that User's account. She should exercise this admin privilege only if the User has been found to explicitly violate Golden Tutors' Terms of Service.

List of main data items and entities

Admin

- Highest level of permission on the site
- Will be responsible for approving new tutors
- Will have the authority to delete any harmful posts or users

Registered User

- Tutor
 - Has filled out a profile form introducing oneself
 - Profile has to be approved
 - Will set prices for their services
 - Will select what courses to tutor in
- Attends SFSU, has the credentials, and has signed up for Golden Tutors
- Someone looking for a tutor

Non-Registered User

- Referring to a person that has not signed up and made an account
- Someone who may be browsing the site
 - May be a potential tutor, or a student looking for help
 - Site does not require a login to browse

Search

- Used to find tutors for classes
 - Filters: will narrow down results
 - Will include, gender, class, price points, scheduling options, upper/lower division courses

Profile

- Tutors will have a profile introducing themselves to potential clients
 - Admin approved
- Information about Tutor
 - Education background
 - Completed courseworks
 - Expertise
 - Fun fact about themselves

Account

- Will be made by the User and house their profile
- Has to have sfsu.edu to get approved
- Will have information such as current major, and grade

Initial list of functional requirements

Non registered User:

1. Users shall be able to register for accounts (using an sfsu.edu email, will be checked upon registration).
2. Users shall be able to log in.
3. Users shall be able to log out.
4. Users shall be able to view a list of tutors.
5. Users shall be able to view tutors profiles.
6. Users shall be able to browse the tutor posts.
7. Users shall be able to filter the posts by tutor name, date.

Registered User (inherits all functionality from non-registered user):

8. Users shall be able to connect with tutors through chat or video call.
9. Users shall be able to rate tutors.
10. Users shall be able to delete their rating on tutor.
11. Users shall be able to upload their profile picture.
12. Users shall be able to create posts.

ADMIN:

1. They shall be able to approve all the posts before they go live.
2. They shall be able to disable the users reported by tutors.

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 Milestone 0. Application delivery shall be from chosen cloud server
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 must render well on mobile devices
4. Data shall be stored in the database on the team's deployment cloud server.
5. No more than 50 concurrent users shall be accessing the application at any time
6. Privacy of users shall be protected and all privacy policies will be appropriately communicated to the users.
7. The language used shall be English (no localization needed)
8. Application shall be very easy to use and intuitive
9. Application should 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 e-mail clients shall be allowed.
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. Application shall be media rich (images, video etc.). Media formats shall be standard as used in the market today
16. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development
17. For code development and management, as well as documentation like formal milestones required in the class, each team shall use their own github to be set-up by class instructors and started by each team during Milestone 0
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 2021 For Demonstration Only" at the top of the WWW page. (Important so as to not confuse this with a real application).

Competitive analysis

Feature	Tutor.com	Smarthinking	Skooli	GoldenTutor
Text search	-	O	O	O
Boolean search	-	O	OO	O
Browse	O	-	OO	O
SFSU specific search	-	-	-	O
Mobile Version	-	O	OO	-

OOO: Best Feature

OO: Better Feature

O: Has Feature

-: Missing feature

The main features that we will be working on is how accurate the text search and boolean search are. Seeing that other companies have these features we plan to get ahead of them by making the most accurate search results based on what the student is looking for. We plan to have a good browsing feature that allows students and tutors to search for each other. Specifically for SFSU students there will be a feature to allow the choosing of specific tutors that have already taken the class they are in need of help in. This is done by having students import their class information when they register with their SFSU account. Our site will not only allow the students to search for tutors but tutors to look for students who posted about needing help.

High-level system architecture and technologies used

- Server Host: AWS - EC2
- Operating System: Amazon Linux 2/3.3.5
- Database: MySQL
- Web Server: nginx/1.20.0
- Server-Side Language: Python 3.7
- Additional Technologies: Flask
- Front-End UI: BootStrap CSS & JS; Jinja

Team and roles

- Team Lead/Document Master: Alberto Ramirez
- Front-End Lead: Emily Do
- Front-End Dev: Shailendra Hamal
- Back-End Lead: Thomas He
- Back-End Dev: Abhijai Singh
- GitHub Master: Raymond Zuo

Checklist

- So far all team members are engaged and attending ZOOM sessions when required: **DONE**
- Team found a time slot to meet outside of the class: **DONE**
- Back end, Front end leads and Github master chosen: **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 lead ensured that all team members read the final M1 and agree/understand it before submission: **DONE**
- Github organized as discussed in class (e.g. master branch, development branch, folder for milestone documents etc.): **DONE**

Milestone 2

SW Engineering CSC648/848 Fall 2021

Milestone 2
Golden Tutors
10/28/21

Team 02

Team members:

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Revision 01	10/28/21
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Golden Tutors will allow tutors to set their price points and choose what SFSU courses they would like to help in. We want to make sure tutors and students are compatible. Tutors will be required to make a profile where they can provide information about their education backgrounds, expertise, completed courseworks, and any fun facts about themselves. Students will be able to use a variety of filters that will narrow down the results for classes and find the right tutor. Filters will bring up results such as upper or lower division courses, scheduling to make sure tutoring sessions can be attended even in busy times, price-points, and gender so that students feel as comfortable as possible. These filters and search functions will be designed to fit SFSU students' needs as its priority.

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2.List of main data items and entities

Admin

- Highest level of permission on the site
- Will be responsible for approving new tutors
- Will have the authority to delete any harmful posts or users

Registered User

- Tutor
 - Has filled out a profile form introducing oneself
 - Profile has to be approved
 - Will set prices for their services
 - Will select what courses to tutor in
- Attends SFSU, has the credentials, and has signed up for Golden Tutors
- Someone looking for a tutor
- Customer
 - The people who will be using the site

General_User

- Referring to a person that has not signed up and made an account
- Unregistered_User
 - May browse the site
- Someone who may be browsing the site
 - May be a potential tutor, or a student looking for help
 - Site does not require a login to browse

Course

- Will contain the course numbers and a description of the course that are available at the school
- Department
 - Separate which category a subject is in

Search

- Used to find tutors for classes
 - Filters: will narrow down results
 - Will include, gender, class, price points, scheduling options, upper/lower division courses

Profile

- Tutors will have a profile introducing themselves to potential clients
 - Admin approved (meaning data will be checked for inappropriate things or errors)
- Information about Tutor
 - Education background
 - Completed courseworks
 - Expertise

Account

- Will be made by the User and house their profile
- Has to have sfsu.edu to get approved
- Will have information such as current major, and grade, email, and their contact info.

3. Functional Requirements

Priority

1.

Unregistered:

- Shall be able to show list of classes
- Shall be able to show list of tutors
- Shall be able to signup

Registered:

- Ability to log into account
- Ability to log out of account
- Ability to contact tutor to organize sessions

Admin:

- Admin approval of pending tutor signups
- Admin ability to remove harmful users or posts

2.

Unregistered:

- Be able to see profile of tutors on site with background descriptions
- Be able to see a home page welcoming one to the site
- Be able to use filters to narrow down class results
- Have filters to narrow down class results
- Tutor Pricing should be available to see regardless of signup status

3.

Unregistered

- Be able to see ratings of tutors given by others

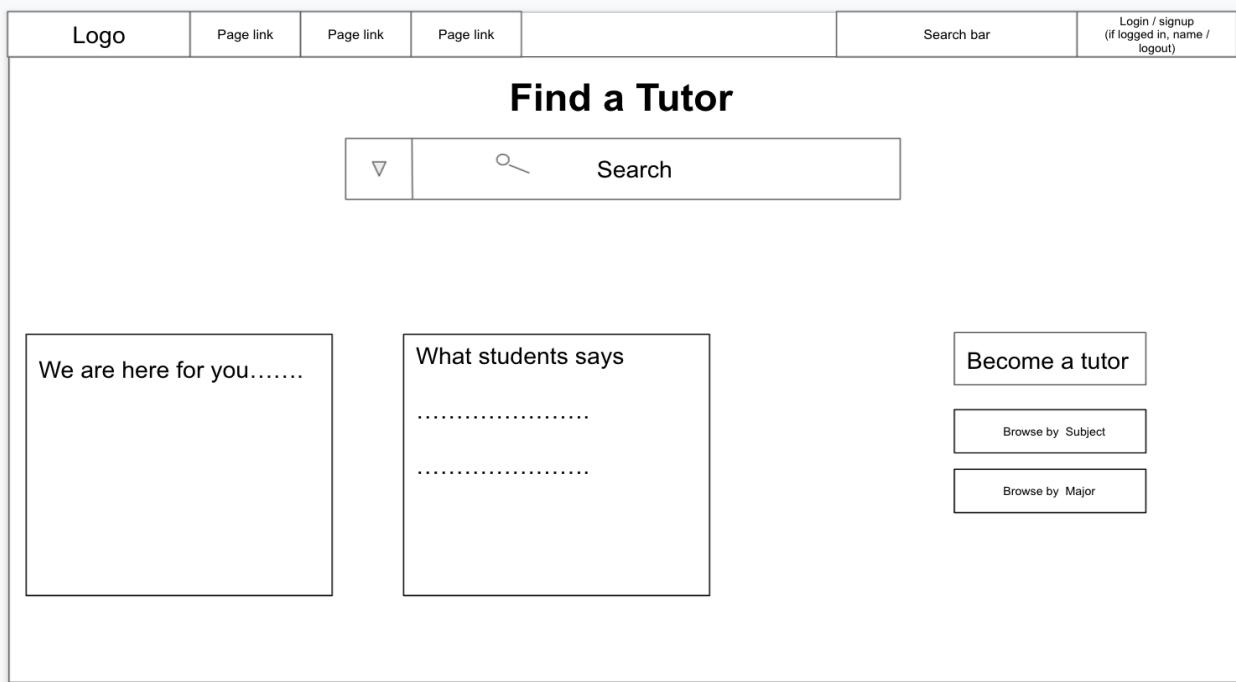
Registered:

- Be able to add pictures to tutors profiles
- Be able to give ratings to tutors

4. UI Storyboards for each main use case (low-fidelity B&W wire diagrams only)

Use Case 1: A student, Ava is struggling in lectures and needs tutoring for her SFSU Math 324 class. She has gone to other tutors for lessons similar to Math 324, but they cannot help him with his Math 324 specific problems. She goes onto Golden Tutors and browses the Math section through search. She looks at the tutor information and sees that the tutor teaches Math 324 specific lessons. Ava reads the descriptions. She is interested, and she tries to contact the tutor and she is prompted to make a student account in order to get help.

Home Page:



Search Result Page:

Logo	Page link	Page link	Page link		Search bar	Login / signup (if logged in, name / logout)
<div style="text-align: center; margin-top: 10px;"><input type="text"/> Search</div>						
<div style="border: 1px solid black; padding: 5px; width: fit-content;">FILTER BY</div> <div style="margin-top: 10px;">Major</div> <div style="margin-top: 10px;">Price</div>		<div style="display: flex; justify-content: space-between; align-items: flex-start;"><div style="flex: 1; text-align: center; margin-right: 20px;"> Photo</div><div style="flex: 1; text-align: left;"><p>Name</p><p>View Profile</p><p>Courses</p><p>Description</p><div style="border: 1px solid black; padding: 2px; margin-top: 10px;">Contact me</div></div></div> <div style="display: flex; justify-content: space-between; align-items: flex-start; margin-top: 20px;"><div style="flex: 1; text-align: center; margin-right: 20px;"> Photo</div><div style="flex: 1; text-align: left;"><p>Name</p><p>View Profile</p><p>Courses</p><p>Description</p><div style="border: 1px solid black; padding: 2px; margin-top: 10px;">Contact me</div></div></div>				

Contact Tutors:

Logo	Page link	Page link	Page link		Search bar	Login / signup (if logged in, name / logout)
<div style="text-align: center; margin-top: 10px;"><input style="width: 150px; height: 30px; border: 1px solid #ccc; border-radius: 10px; padding: 5px 10px; margin-bottom: 10px;" type="text"/>🔍 Search</div>						
FILTER BY		Sign Up to continue <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-bottom: 5px;" type="text"/> <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-bottom: 5px;" type="text"/> <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-bottom: 5px;" type="text"/> <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-bottom: 10px;" type="text"/> <input style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; background-color: #f0f0f0; font-weight: bold;" type="button" value="Submit"/>			Name View Profile Courses Description	
		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-bottom: 5px;" type="text"/> <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-bottom: 5px;" type="text"/> <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-bottom: 5px;" type="text"/> <input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; margin-bottom: 10px;" type="text"/>	Photo	Photo	Photo	

Use Case 2: John, a freshman at SFSU, looks at a tutoring service for CSC 210. He logs in to his account and searches for a tutor in CSC 210. John has found a tutor, Greg, a senior at SFSU, that could help him in his class, CSC 210. He adds the tutoring service to his cart where he can see the list. John will gain permissions to directly message Greg. Greg will get a notification about John's message, and Greg, who has taken CSC 210 and knows the material from when he took it, can either accept or deny the request. They can negotiate what hours to meet, what the rate will be, how to meet this way, and what material that the session will be for. Greg accepts. John now has a tutor for the exact material they teach in CSC 210.

Login Page:

Logo	Page link	Page link	Page link		Search bar	Login / signup (if logged in, name / logout)
<div style="border: 1px solid black; padding: 10px; text-align: center;"><p>Username <input type="text"/></p><p>Password <input type="password"/></p><p><input type="button" value="Login"/> <input type="button" value="Forgot Password?"/></p></div>						

Saved Tutors Page:

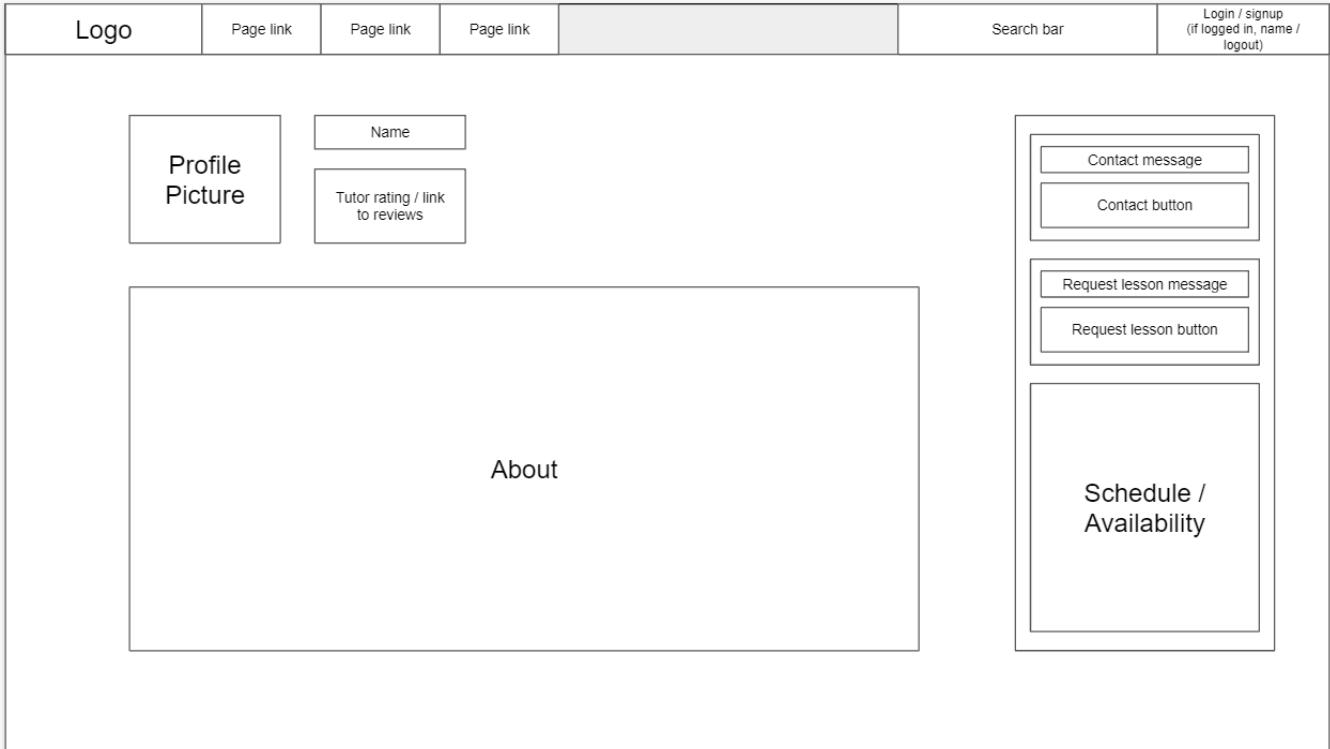
Logo	Page link	Page link	Page link		Search bar	Login / signup (if logged in, name / logout)
<h2>SAVED TUTORS</h2> <div style="display: flex; align-items: center;"><div style="border: 1px solid #ccc; padding: 10px; margin-right: 20px;">Profile Picture</div><div>Name Courses</div><div style="margin-left: 20px;">Contact me Remove Save for letter</div></div> <div style="margin-top: 20px;"><div style="display: flex; align-items: center;"><div style="border: 1px solid #ccc; padding: 10px; margin-right: 20px;">Profile Picture</div><div>Name Courses</div><div style="margin-left: 20px;">Contact me Remove Save for letter</div></div></div>						

Use Case 3: (Scenario) A tutor registers with his personal information and university credentials. Then he creates his external profile containing the required information. He can also choose to set/adjust his per hour rate with the company (Note : no transactions can be conducted on the platform), and his preferred hours of availability. Communication channels between tutor and student include links to Zoom and e-mail addresses can be opened at the discretion of the tutor.

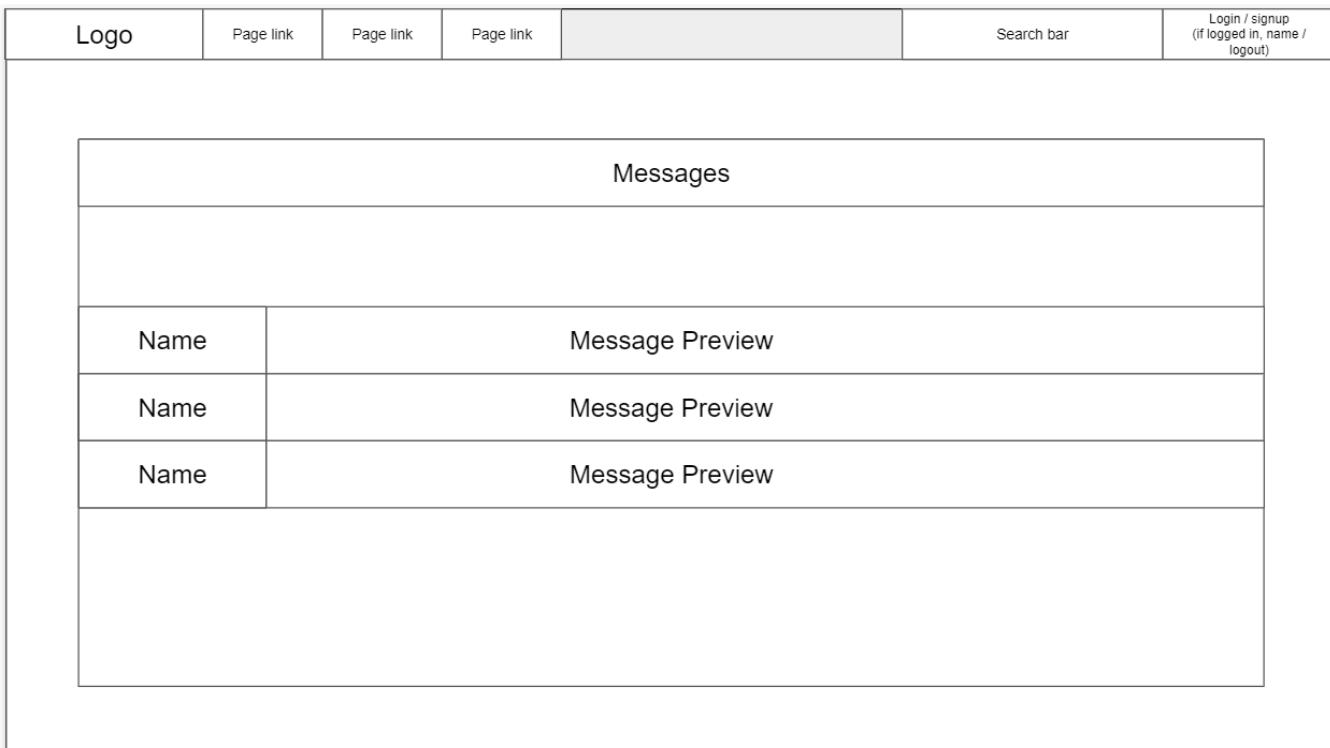
Registration page:

Logo	Page link	Page link	Page link		Search bar	Login / signup (if logged in, name / logout)
Account perks		Sign up info				

Tutor Profile Page:



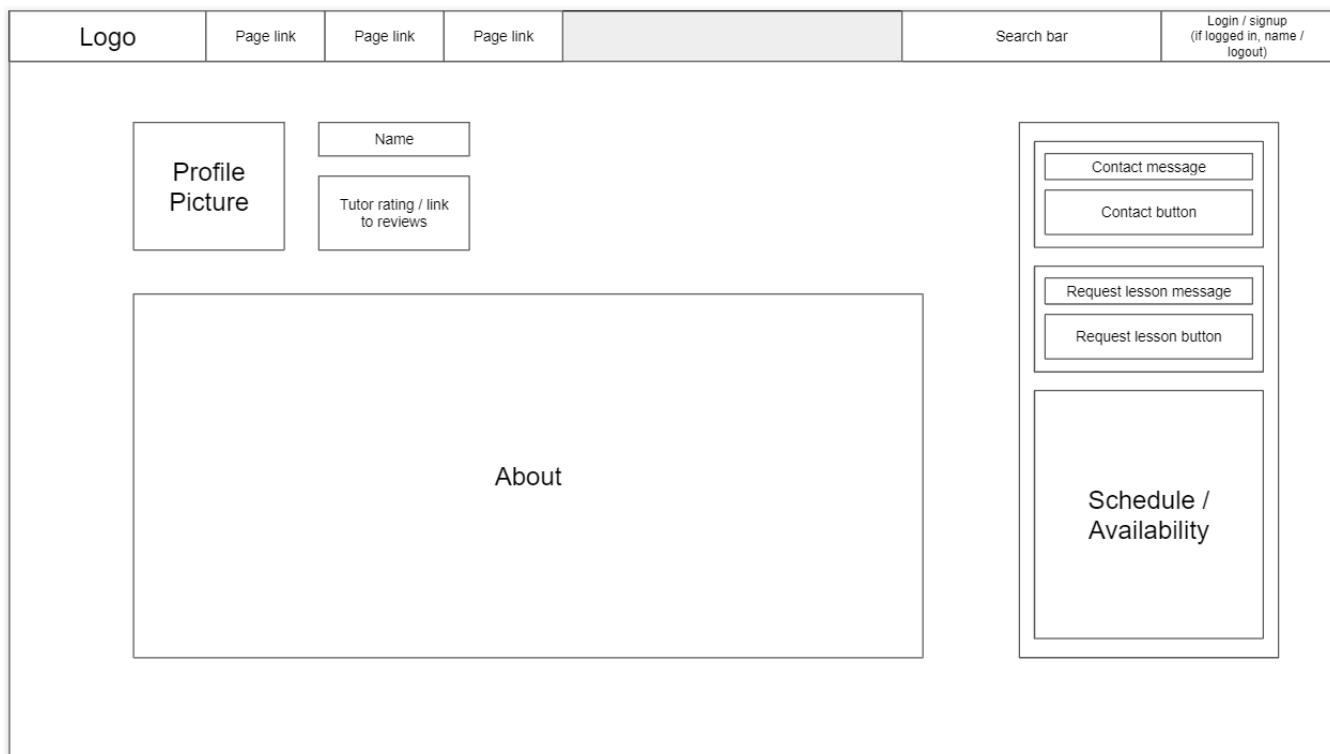
Inbox:



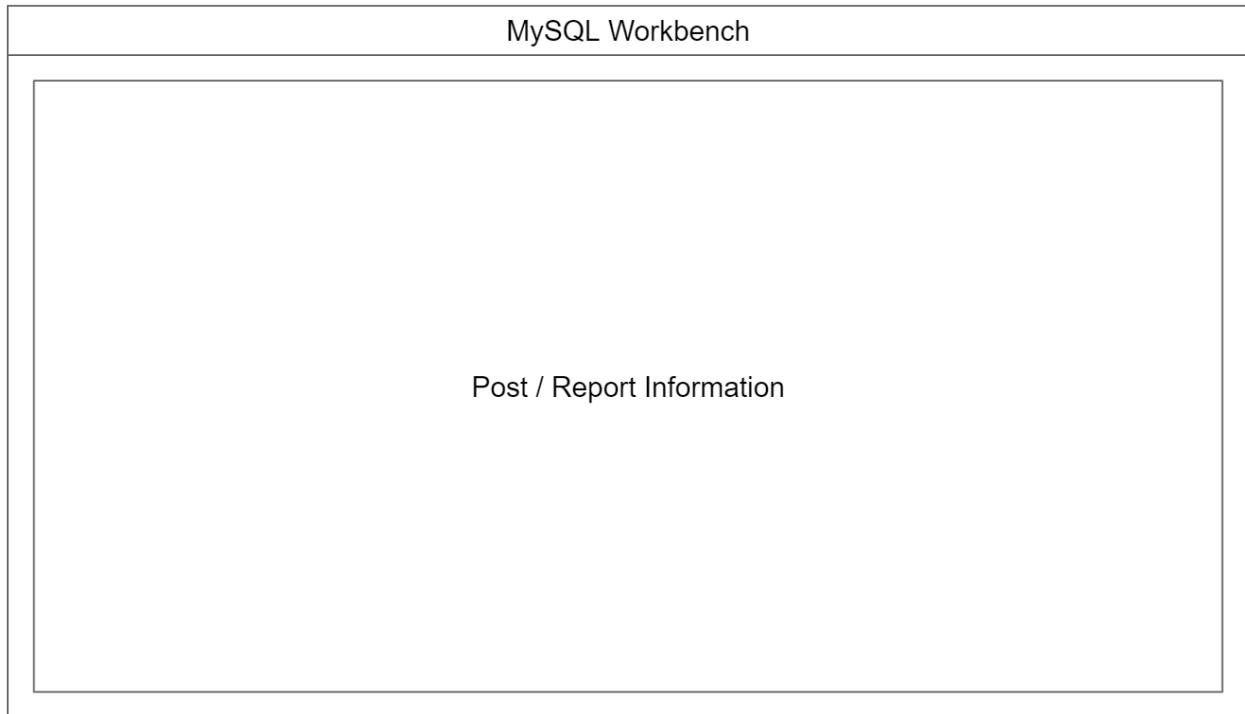
Logo	Page link	Page link	Page link		Search bar	Login / signup (if logged in, name / logout)
<p>Profile Picture</p> <p>Name</p> <p>Email</p>				Message		

Use Case 4: (Scenario) An admin receives reports about an inappropriate post. She reviews the content, and if she finds that the post needs to be taken down, she uses workbench to do so. If a user has been reported multiple times for misconduct, the admin can delete the user's account.

Reviewing Content:



Admin Workbench:

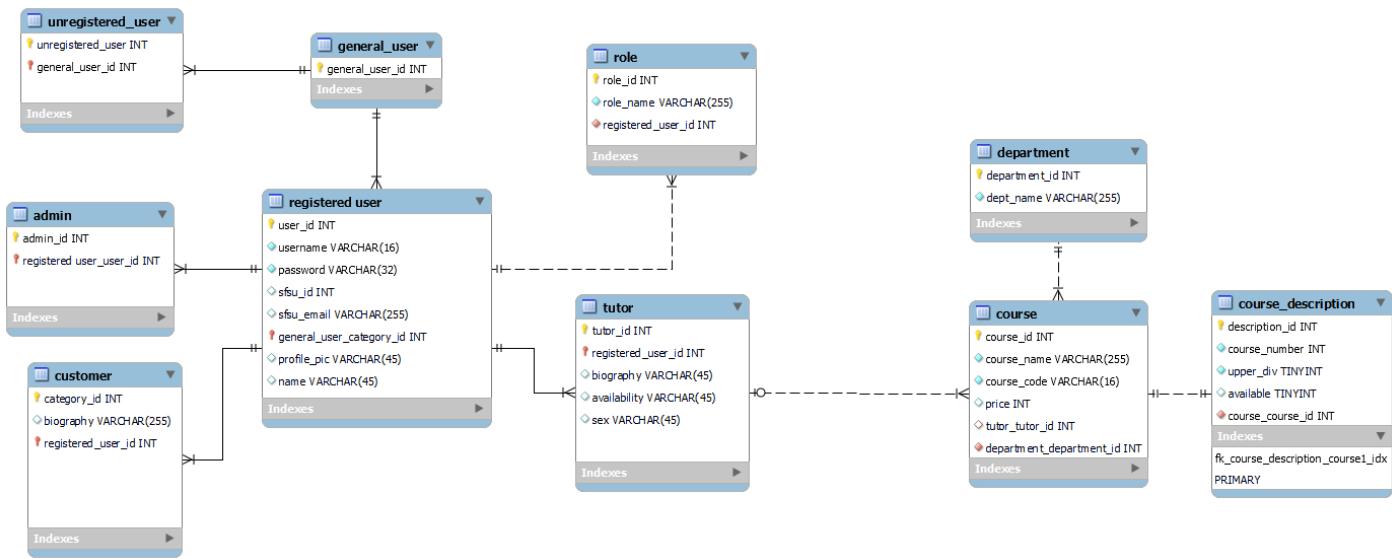


MySQL Workbench

Post / Report Information

5.High level Architecture, Database Organization summary only

Database Entity Relationship Diagram



Summary:

This is a website hosted by AWS EC2 Beanstalk. Routing the code from Python to the web server is made possible by Flask. The database is made using mySQL. Flask connects the .html files to the backend code and database. It also routes the URLs to the different pages. Flask will give different permissions to users with different roles. Python will set roles from data gathered from the front-end. This will reflect in what the users on the website will be able to see and do.

Database will be organized similarly to above, where all users are children of the **general_user** entity. Once a person registers, they can get a role which can be modified later on. Courses can have tutors, or they can be by themselves, unowned by anyone. They have a description and that will be used to help in searching and filtering. All courses must be part of a department at SFSU, so that could also help with filtering.

6. Key Risks

At this point of the project the risks that we have run into are very little, we expect more obstacles as time passes and as more code is written. Only two main concerns that the team has had, as followed:

Legal/Content : Potential copyright/legal issues with students taking screenshots of questions from within their assignments and posting them on the forum. Ideally, all administrators should screen for these kinds of posts, but due to volume such posts may slip through the filter.

Scheduling: Working with a group of six students is a risk due to the fact that scheduling for everyone is different. Times where everyone is free is limited. Working remotely does play a factor into scheduling as well, everyone has to be available and in a good working environment where their devices have a stable internet connection. The way we will be overcoming this is by using a program for scheduling so that everyone can be on the same page and watch the deadlines.

7. Project management

Our group has been collaborating over Google docs and Discord. Google docs allows the team to work on documentation in real time. It also gives the team a way to see how the progress is going.

Discord is the service the team uses to keep in communication with each other. If only a portion of the group or separate members have to meet, Discord allows communication with one another. The Discord channel is a good way of updating the whole team at once. Discord allows the team to stay updated regardless of their schedule, messages never expire, so if one member posts in the general tab everyone can see it.

Asana is a scheduling program that the team will be using going forward with the project. It is a free program that allows tasks to be kept track of and scheduling deadlines to be seen by the whole team. Asana will be a good program to use to be able to experience how collaboration with multiple people can be managed. It helps to stay on track with the project and makes sure it is delivered on time.

Milestone 3:

SW Engineering CSC648/848 Fall 2021
Milestone 3
Golden Tutors
11/17/21

Team 02

Team members:

Alberto Ramirez, Team Lead (aramir18@mail.sfsu.edu)
Emily Do, Front End Lead
Shailendra Hamal, Front End Dev
Thomas He, Back End Lead
Abhijai Singh, Back End Dev
Raymond Zuo, Github Master

Team number: 02

Meeting date: 11/17/2021

Summary of feedback on UI:

The search bar should be on the nav bar throughout the entire website. The search bar filters should be edited with more relevant topics. The search bar should be clear to users on what should be entered. The search feature should show what was searched and how many results were found. When searching for classes, the results should bring up the tutors, and a button to message them. The information on the bottom of the homepage should be visible since it is currently hidden, users should not have to scroll to see the information. The website's logo should be on the top left on all pages. The logo should be clickable and return users to the homepage when clicked. The "browse" and "home" tab should be removed from the nav bar. The website requires the class statement. Tutors should have an option to post. Ratings of tutors should be left out. The message button on the tutor's profile should be repositioned to the bottom left. The messages page should be categorized and have separate columns.

Summary of feedback on code and architecture Summary of feedback on github usage:

The code needs a header on each of the files to show who worked on the code and what the page does. Github needs better commit messages, to be able to understand what was changed. Github messages should be clear. Commits should only include one feature at a time. The Github branches currently being used are simple and should be left as is.

Summary of feedback on DB Summary of feedback on teamwork Any other comments and issues:

Need someone who is good at the DB to be ready for a full demo. A team member must be familiar with Workbench to test the admin role, and have admin permissions. Passwords must be encrypted.

Check Point (CP) given, DUE: TBD

Summary of feedback on teamwork

The team had an issue on the backend side where the website would not launch successfully. Advised to have a couple people working to resolve the issue and the rest of the team working on the front end. The advice was taken and the issue was resolved by the backend team while everyone else moved forward.

List below agreed upon P1 list of features for final delivery which constitute product plan.

Plans that were agreed upon in M2:

Priority 1

Unregistered:

Shall be able to browse the site

- Browsing will consist of:
 - Being able to see tutor profiles
 - Being able to see tutor price points

Shall be able to use the search bar feature

- Shall be able to use the filters for narrowing down results

Shall be able to sign up for the site

Registered:

Shall be able to log into account

Shall be able to post classes offered to tutor

Shall be able to log out of account

Shall be able to contact tutor to organize sessions

Admin:

Shall be able to approve all tutor posting before going live

Shall be able to approve all pending tutor signups

Shall be able to remove harmful users or posts

Plan of action:

In the next few weeks, the plan is to dial in the P1 features. The team will make sure the feedback that was given from the professor is put into place. The team has to make sure the website is usable to both students and tutors. The admin role will be played through Workbench, a team member will be assigned to get familiar with Workbench in order to test admin functionalities.

Milestone 4

SW Engineering CSC648/848 Fall 2021

Milestone 4
Golden Tutors
12/13/21

Team 02

Team members:

Alberto Ramirez, Team Lead (aramir18@mail.sfsu.edu)
Emily Do, Front End Lead
Shailendra Hamal, Front End Dev
Thomas He, Back End Lead
Abhijai Singh, Back End Dev
Raymond Zuo, Github Master

1) Product Summary

Golden Tutors

Golden Tutors is a website strictly for SFSU students who need extra help in their classes. Golden Tutors make it easy for students to find tutors that are available and ready to help in whatever class they are struggling in. Golden Tutors make it simple for students to reach out to tutors and organize a study session. Golden Tutors also gives the option to sign up as a tutor and help others, with customizable profiles, Golden Tutors make it a personable experience to find the right tutor.

P1 LIST:

- Search function
- Login
- Registration
- Sign up as a tutor
- Message tutor

URL: <http://team2-app-dev-env-he.us-west-1.elasticbeanstalk.com/>

2) Usability test

- Test objectives: Search bar, This is the main function of the website.

- Test background and setup:

The system is set up for any user to be able to look up courses that they may need help with. The search will allow users to find tutors that are teaching those specific classes.

The search is designed to make it quick and simple for the users to find help. The search functionality will have filters to be able to specify and pinpoint their searches.

- Usability Task description:

To use the search functionality the user will use the link to access the site. The site is made to simplify users' tasks, where they will be greeted by a search bar and filters immediately asking what courses they need help with. The user can input a class name, course number and use the drop down menu on the side for filters to narrow down results.

- Evaluation of Effectiveness:

To measure the effectiveness of this function is to test one thing which is the accuracy of the search. It will be more effective if the search bar is able to provide everything related to what you are looking for when you first search for it.

- Evaluation of efficiency:

To measure the efficiency of this function is to test the time that it takes for this function to do its job. Time is usually the deciding factor for efficiency. Whether or not you are able to do what you want in a timely manner determines that.

- Evaluation of user satisfaction:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
The filters being used for the search were useful	x	x	x	x	x
The results shown by the search bar were accurate	x	x	x	x	x

	Clumsy	Difficult to work with	Very Intuitive
The layout of the sites search bar was positioned correctly and easy to understand	x	x	x

3)QA test plan

Test objectives:

The search feature on the website to be able to find tutors for specific classes

HW and SW setup:

Below is the link to the website's About Page that entails what software has been used for the site:

<http://team2-app-dev-env-he.us-west-1.elasticbeanstalk.com/about>

The server host is Amazon-AWS and the database being used is MySQL

Feature to be tested:

The accuracy of the search results and the speed of the search.

QA Test plan: in table format:

Search Feature Test #1	Description	Test Input	Expected Result	Pass/Fail
Functionality	The search bar should be clearly shown on the site with the filters drop down	Input a computer science class name	The search bar should show the result for that class name	Pass
Security	Not able to search for unrelated content	Searched words that are not classes	The results should only show class names and tutors offering assistance	Pass
Usability	The drop down menu for filters are able to be used accurately	Class filter was selected with a number inputted	With just the number of class and the filter, results should appear for that class	Fail

4)Code Review:

```
home.html × layout.html ×
22
23     <!-- nav bar -->
24     <nav class="navbar navbar-expand-lg navbar-dark fw-bold navbar-custom">
25         <div class="container">
26             <a class="navbar-brand" href="/">Golden Tutors</a>
27             <button class="navbar-toggler float-right" type="button" data-toggle="collapse" data-target="#main-nav">
28                 <span class="navbar-toggler-icon"></span>
29             </button>
30             <div class="navbar-collapse collapse" style="..." id="main-nav">
31                 <ul class="navbar-nav me-auto">
32                     <li class="nav-item">
33                         <a class="nav-link" href="/">Home</a>
34                     </li>
35                     <li class="nav-item">
36                         <a class="nav-link" href="/about">About</a>
37                     </li>
38                     <li class="nav-item">
39                         <a class="nav-link" href="/browse">Browse</a>
40                     </li>
41                 </ul>
42
43             <!-- nav search -->
44             <form class="nav navbar-nav">
45                 <div class="form-group">
46                     <input type="text" class="form-control" placeholder="Find a tutor!">
47                 </div>
48                 <button type="submit" class="input-group-text shadow-none px-3 btn-warning">Search
49             </button>
50
51             <ul class="navbar-nav ms-auto">
52                 <li class="nav-item">
53                     <a class="nav-link" href="/login">Login</a>
54                 </li>
55                 <li class="nav-item">
56                     <a class="nav-link" href="/register">Sign Up</a>
57                 </li>
58             </ul>
59         </div>

```

To: Raymond Zuo



Hey Raymond,

I went ahead and started fixing the problem we had, where the website did not have a search bar in the nav bar. It may need some styling. Please let me know what you think so far.

-Alberto Ramirez



AR Today at 8:00 PM

I went ahead and emailed you a portion of the code I worked on for you to review it when you get a chance. Thanks

To: Alberto Alexander Ramirez Rodriguez

Hey Alberto, It looks good so far but you should reposition the buttons and the search bar. Also, you still need to try and get the filters to work and add the header to that page of the code.

Thanks,
Raymond

...

Okay, thank you!

Thank you, I will do that.

Ok, will do. Thanks!

Are the suggestions above helpful? Yes No

In the screenshots above, the first one was the first email that was sent out from Alberto to Raymond regarding a new feature. The feature that was added was a solution to the feedback the professor gave. The website did not have the search functionality on all pages, just the home page. Alberto added a search bar to the nav bar so that users are able to search from whatever page on the site. Alberto sent a screenshot of the code in the email to help Raymond find where the feature was added. There were also comments within the code that explained the feature. The second screenshot was just a friendly reminder from Alberto to Raymond letting him know that a code review email was on its way. This was sent using Discord to make sure Raymond was receiving the emails, plus it was a friendly way to make sure Raymond was aware of the code review email.

The third and final screenshot is Raymond responding to Alberto letting him know that the code submitted was a good start but there were some spots that could be polished. Raymond also gave him feedback on the code saying headers needed to be added.

5)Self-check on best practices for security:

Asset to be protected	Types of possible/expected attacks	Your strategy to mitigate/protect the asset
Tutor Info	Password and personal data leaks.	Restriction to available data. Encryption of things like passwords.
User Info	Password and personal data leaks.	Restriction to available data. Encryption of things like passwords.

6)Self-check: Adherence to original Non-functional specs:

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in Milestone 0. Application delivery shall be from chosen cloud Server **DONE**
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of two major browsers **DONE**
3. All or selected application functions must render well on mobile devices
ISSUE: Some pages on the website have issues when resizing, when on mobile devices some of the messages on the site look like they are extended in a way that is hard to read.
4. Data shall be stored in the database on the team's deployment cloud server **DONE**
5. No more than 50 concurrent users shall be accessing the application at any time
DONE
6. Privacy of users shall be protected and all privacy policies will be appropriately communicated to the users.
DONE
7. The language used shall be English (no localization needed)
DONE
8. Application shall be very easy to use and intuitive
DONE
9. Application should follow established architecture patterns
DONE

10. Application code and its repository shall be easy to inspect and maintain

DONE

11. Google analytics shall be used

ISSUE: No one on the team has used Google Analytics, but a team member will learn it to test the website on

12. No e-mail clients shall be allowed.

DONE

13. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated in UI.

DONE

14. Site security: basic best practices shall be applied (as covered in the class) for main data

Items

DONE

15. Application shall be media rich (images, video etc.). Media formats shall be standard as used in the market today

DONE

16. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development

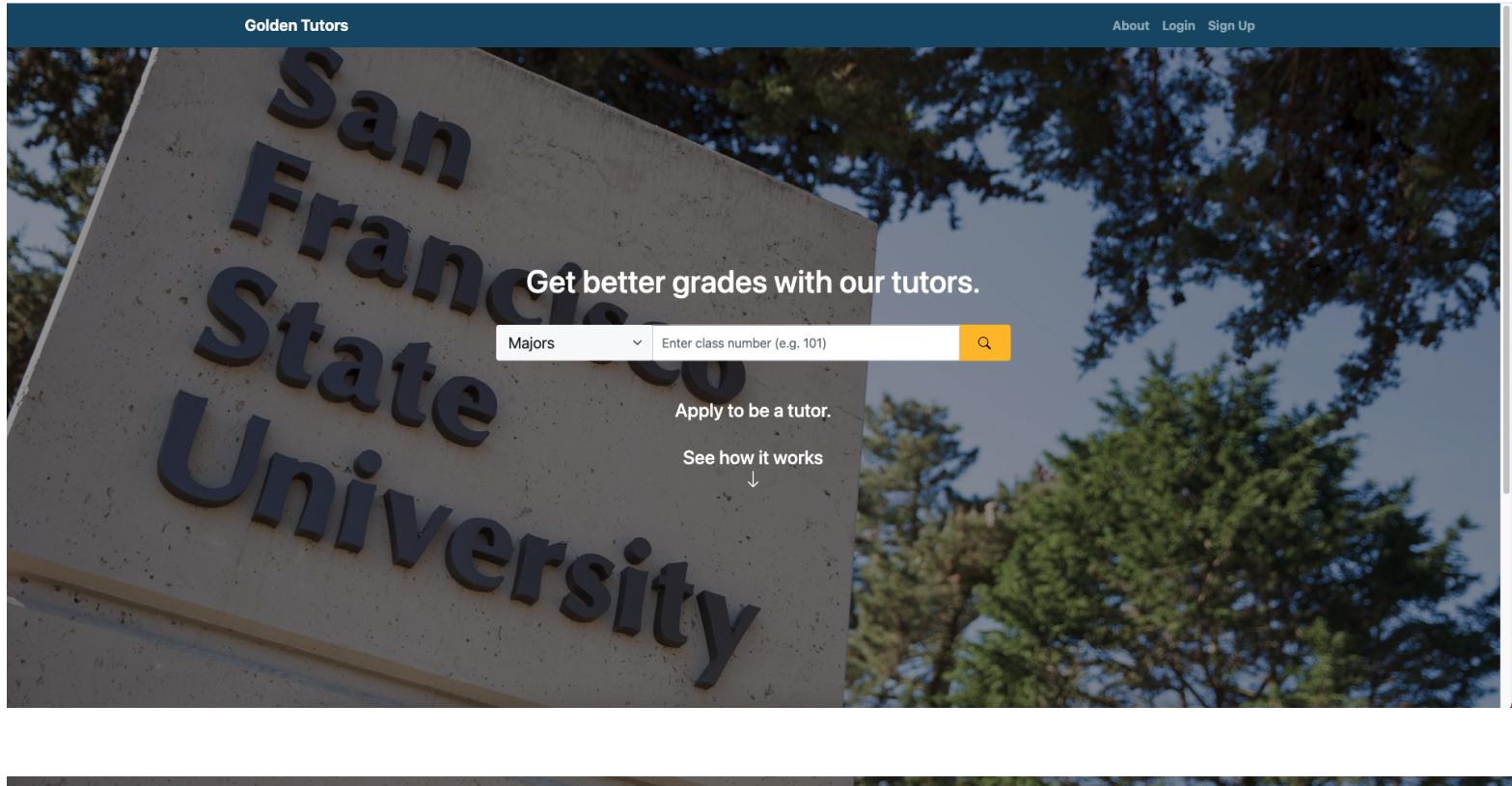
DONE
17. For code development and management, as well as documentation like formal milestones required in the class, each team shall use their own github to be set-up by class instructors and started by each team during Milestone 0

DONE

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 2021 For Demonstration Only" at the top of the WWW page. (Important so as to not confuse this with a real application).

ISSUE: The message has not been added to the site but will be implemented under the nav bar on all pages

4) Product Screenshots



How it works:



Find a tutor

Browse our selection of verified SFSU tutors and find one that fits your needs.



Send a message

Contact your chosen tutor by sending them a message through our platform.



Get tutoring

Receive the help you need from tutors with experience and knowledge specific to SFSU.

**Sign up to receive access
to more features such as:**

Messaging

Personalized Dashboard

Individual Profile

Become a Tutor

Welcome!

 test

 test@sfsu.edu

 000000000



[Submit](#)

[Already have an account?](#)



Welcome Back!

test

....

[Sign In](#)

[Forgot Password?](#)

SF50 Software Engineering Project CSC 046-846, Fall 2021 for Demonstration Only

Golden Tutors

About Dashboard Logout

Welcome test!



Inbox



Edit Profile



View Profile



Be a tutor



Upload Picture

 Choose File No file chosen Name **Personal Information** Gender Phone Number **Major** Major **Availability** Availability **About Me** Submit**Teaching Experience** Submit**Education** Submit

Classes currently available for tutoring:

Software Engineering

CSC 648

Linear Algebra

MATH 325

Intro to Computer Programming

CSC 310

Calculus I

MATH 226

Searched for 325 in Math.

Tutor	Action
 Emily Do Linear Algebra MATH 325	<button>Message</button>
 Ava Lee Calculus II MATH 227	<button>Message</button>
 Ava Lee Discrete Mathematical Structures for Computer CSC 230	<button>Message</button>
 Thomas	

Send a message:

Hey I would love to meet with you at the library ~~friday!~~!

Send

5) Database organization

Tutor Database Tables:

Course Table

	id	name	code
▶	1	Software Engineering	CSC 648
	2	Linear Algebra	MATH 325
	3	Intro to Computer Programming	CSC 310
	4	Calculus I	MATH 226
	5	Probability and Statistics with Computing	MATH 324
	6	Calculus II	MATH 227
	7	General Physics with Calculus I	MATH 220
	8	Discrete Mathematical Structures for Computer	CSC 230
	9	Operating System Principles	CSC 415
	10	Programming Paradigms and Languages	CSC 600
	11	Analysis of Algorithms	CSC 510
	12	Intro to Financial Accounting	ACCT 100
	13	Business Ethics	BUS 440
	14	Applied Microeconomics	ACCT 601
*	NULL	NULL	NULL

Conversation Table

```
SELECT * FROM tutorDB.conversation;
```

	id	user1	user2
▶	0	1	3
	1	1	4
*	NULL	NULL	NULL

Major Table

```
SELECT * FROM tutorDB.major;
```

	id	name
▶	1	Accounting
	2	Business
	3	Computer Science
	4	Economics
	5	Math
*	NULL	NULL

Major Has Course Table

```
1 •  SELECT * FROM tutorDB.major_has_course;
```

	major	course
▶	3	1
	3	2
	3	3
	3	4
	3	5
	3	6
	3	7
	3	8
	3	9
	3	10
	3	11
	1	12
	1	14
	2	13
	4	12
	4	13
	4	14
	5	2
	5	4
	5	6
	5	8

User Message Table

```
1 •  SELECT * FROM tutorDB.message;
```

	id	sending_user	message	datetime	conversation
▶	0	1	Hello there! How are you?	2000-01-01 00:00:00	0
	1	3	What do you need from me?	2000-01-02 00:00:00	0
	2	1	I would like some tutoring.	2001-01-02 00:00:00	0
	3	1	Hello! It's nice to meet you.	2000-01-01 00:00:00	1
	4	3	I can be your tutor.	2021-12-11 10:05:00	0
	5	1	I need help with a lot of subjects.	2021-12-18 02:59:02	0
	6	1	Math and Computer Science are very hard to me.	2021-12-18 03:11:23	0
	7	1	Do you think you could help me out with my clas...	2021-12-18 03:20:26	0
	8	1	I am a Computer Science major and I need help ...	2021-12-18 03:23:54	0
	9	4	I have a final coming up and I need some tutoring.	2021-12-18 03:24:35	1
	10	4	You're welcome! Any time.	2021-12-18 03:25:06	1
	11	4	This website is great!	2021-12-18 03:25:21	1
	12	4	No thank you, I don't need it anymore.	2021-12-18 04:32:59	1
	13	1	asdf	2021-12-18 15:33:05	0
*	NULL	NULL	NULL	NULL	NULL

Teaches Table

1 • `SELECT * FROM tutorDB.teaches;`

	tutor	course
▶	1	1
	1	2
	1	3
	3	1
	3	2
	4	5
	4	6
	4	7
	4	8
	4	9
	4	10
	1	11
	1	12
	3	12
*	4	12

User Table

1 • `SELECT * FROM tutorDB.user;`

	name	password	sfsu_email	sfsu_id
▶	test	gAAAAABhvcGHK3CP51sF_xzIi8ggMyunkpFnzh...	test@sfsu.edu	0
	thomas	gAAAAABhvScUPpSVR-iAwuoh9dWxNh6fM508...	t@mail.sfsu.edu	1
	emily2	gAAAAABhvT55RWjuEf1sls6JJadQeJ3pZKn2TT...	ed@mail.sfsu.edu	3
	emilyagain	gAAAAABhvUVccIdF-heumBYkxbMZ1xSgEUY1y...	em@mail.sfsu.edu	4
	thomas123	gAAAAABhvYP1qyRWM6pCLZWr8BmhOdVI0bU...	newmail@mail.sfsu.edu	12
	newuser123	gAAAAABhvnYG6I_mIKy1nbT7R3mS_gTaI3lgXT...	123@mail.sfsu.edu	123
*	user10	gAAAAABhvnYl00hi91qrycBt8KICcYZJxePSLM4a...	user 10@mail.sfsu.edu	555
*	NULL	NULL	NULL	NULL

User/Tutor Profile Table

1 • `SELECT * FROM tutorDB.user_profile;`

	name	major	class	phone	status	sfsu_id	gender	picture	education	about	experience
▶	Thomas	Computer Science	.	(123) 456-7891	Tutor	Thursday	1	Male	BLOB	Lore ipsum dolor sit amet, consectetur adipisci...	Lore ipsum dolor sit amet, consectetur adipisci...
	test2				Message	12		BLOB	NULL	NULL	NULL
	Emily Do			(234) 567-8910	Tutor	Monday	3	Female	BLOB	NULL	NULL
	Ava Lee				Tutor	Tuesday	4	BLOB	NULL	NULL	NULL
	test				Message	0		BLOB	NULL	NULL	NULL
	newuser123					NULL	123	BLOB	NULL	NULL	NULL
	user10					NULL	555	BLOB	NULL	NULL	NULL

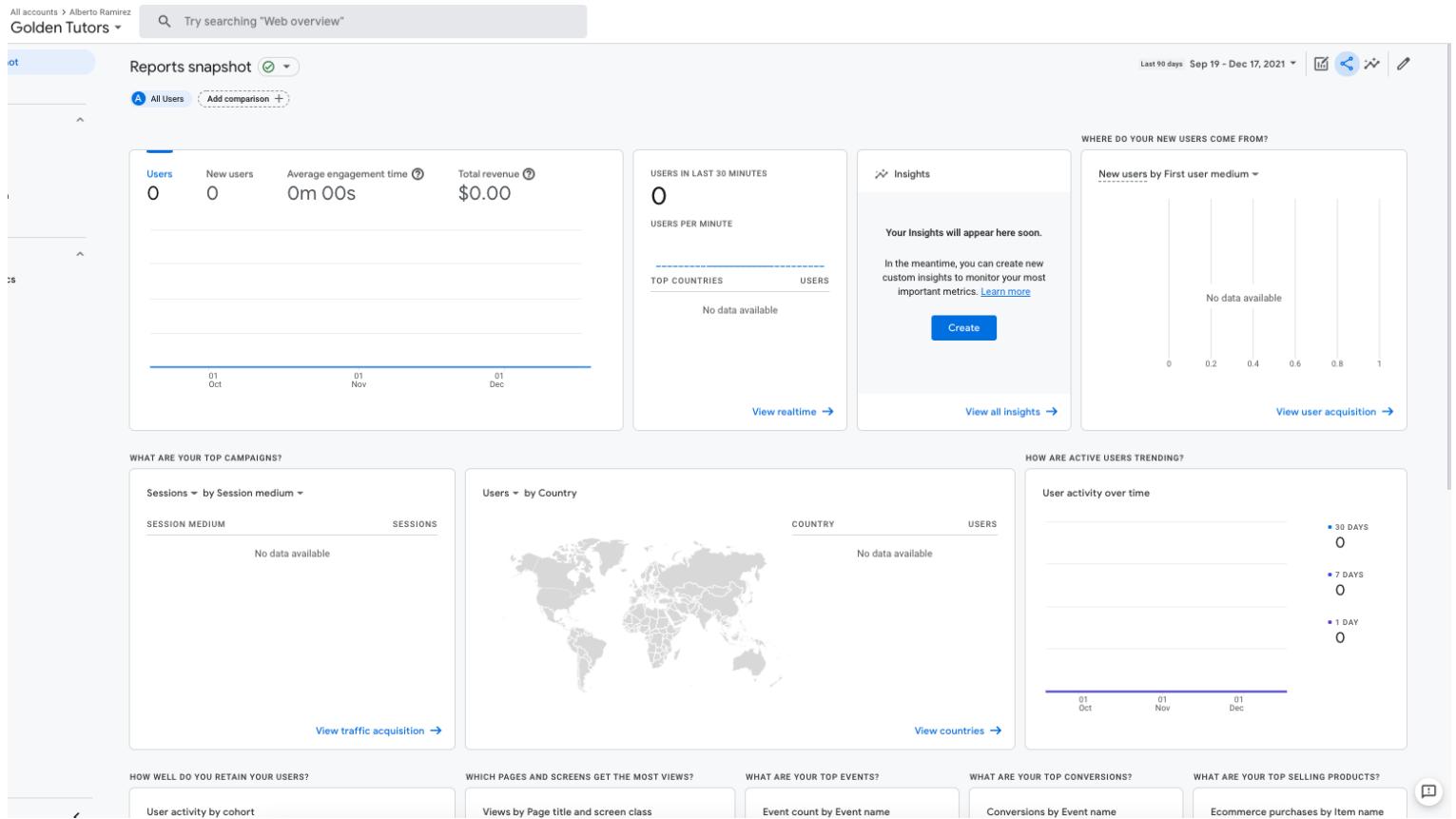
Conversation Table

1 • `SELECT * FROM tutorDB.conversation;`

	id	user1	user2
▶	0	1	3
	1	1	4
*	NULL	NULL	NULL

6) Google Analytics stats plot for WWW site

Google Analytics was unsuccessful to connect to the site, it was not able to give accurate information. Google analytics was a resource new to the team. Due to time constraints, learning and debugging a new program was not ideal.



7) Project management

- ▼ Front end
 - ✓ logo instead of "home" button
 - ✓ browse, and home tab removed
 - ✓ messages have to be categorized
 - ✓ search bar statement clear
 - ✓ search bar on nav
 - ✓ Add Class statement to top of website
- Add task...

- ▼ Back end + ...
 - ✓ passwords have to be encrypted
 - ✓ filters have to be edited for search
 - ✓ tutors need to post
 - ✓ tutors need to show up in results
- Add task...

- ▼ All
 - ✓ Better commit messages for the future
 - ✓ Need someone to be admin on Workbench demo
 - ✓ Code needs headers

Asana and Discord were used for project management, the screenshots above show how Asana allows tasks to be assigned to a certain part of the team, in our case we had a back-end, front-end, and an “all” section to separate and categorize the tasks. Once done the task could be checked off. Discord was used to communicate with each other. Discord was used to send messages, talk in voice chats, and even share screens with one another.

8) Team Members self assessment and contributions

Alberto Ramirez (Team Lead)

Number 8 for M5



Alberto Alexander Ramirez Rodriguez

Sat 12/18/2021 3:01 AM

To: Raymond Zuo

Cc: Shailendra Hamal; Abhijai Singh; Emily Do; Thomas P He



- a) I worked on all the Milestones for the group project, I made sure formatting and layout followed the Milestone instructions given from the professor. I made sure the Milestones were submitted on time. I worked with the whole team to first set up and choose roles everyone felt comfortable with. I worked with the team to decide what software and languages would be used for the site. I worked with the team to lay out all the requirements of the project and assigned them to the respective team. I hosted team calls after classes and discussed what had to get done. I made minor adjustments on the front-end portion of the website. I also updated the team on any emails or messages given out by the CTO or CEO.
- b) About 15 commits were done to the front-end side of the website on my end. Back-end was not touched due to my lack of knowledge and experience.
- c) The main challenges as a team lead were organizing the site, there is a lot of requirements to get done when creating a site, at first many ideas are thrown out and brainstormed, which can get overwhelming but in the end a lot of them end up either getting tweaked or deleted completely. I had never played the role as a team leader in any jobs or classes. I did not know what to expect. Scheduling was a big challenge, the whole team consists of seniors, which have other classes, projects, jobs, etc. It is tough to have time set aside for a group 6 people especially when we all had to be in the same meeting. On top of that during the pandemic everything is virtual, having to work through computers is not as personable as if we all met in person.
- d) If I ever get the chance to be a team lead again, I will focus on setting more set requirements, from the very beginning so the team can focus on specific tasks even if they are small. During the class the professor discussed "scrum" meetings which I had never heard before, I would try and incorporate that more in my position as a team lead, regardless of if it was a virtual meeting. It seems like a very casual conversation that lets the whole team know where everyone stands and what must be done. The use of product management as discussed in class would be beneficial for next time as well. I had never used any programs for management. They are very effective and powerful tools, not ever using one in the past I think I did not use the program, in our case Asana, to its maximum capability.

Raymond Zuo (Github Master)

Number 8 for M5



Raymond Zuo

Thu 12/16/2021 11:08 PM



To: Alberto Alexander Ramirez Rodriguez

Cc: Shailendra Hamal; Abhijai Singh; Emily Do; Thomas P He

- a) I worked on all the pdf documents for the milestones. I set up GitHub and maintained it. Did some looking over the code.
- b) I did all the merges so around 3-6 merges and around 8 commits with changing things up when necessary in the Github.
- c) Keeping things organized since it was my first time doing GitHub management. It was just something I had to deal with and could be better in the future.
- d) I learned how to work better with GitHub and use it to manage a team. Next time I will manage the commit messages and things relating to that better. This time it was not really organized to the way the professors liked it since we were told about how our commits were not that good. Also, I will be able to present GitHub in a better fashion. It took me a bit longer to demo the GitHub when the professor wanted since I never really used any GitHub features outside of commit and pushing before. This was my first time using pull and merge on GitHub.

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

Shailendra Hamal (FrontEnd Developer)

Number 8 for M5



Shailendra Hamal
Sun 12/19/2021 6:20 AM

Like Share Forward ...

To: Alberto Alexander Ramirez Rodriguez; Abhijai Singh; Emily Do; Thomas P He; Raymond Zuo

1. Contributions to team project and teamwork-
 - a. Frontend Developer
 - b. Worked in some portions of milestone documents and reviewed/checked some documents.
 - c. Worked on message/messages page in the front end
 - d. Attended the meetings.
2. Number of submissions he/she made to GitHub team
 - a. About 12 commits were made to the front-end side.
3. One brief paragraph on the main challenges encountered.

I was not able to keep up with the requirements. I was having a major health issue so was unable to learn and do tasks in a timely manner.
4. one brief paragraph on what would he/she do better next time based on what we learned in class.

Next time whenever I would be in teamwork I will make sure I give priority to the teammates and try to learn from them. I learned the importance of communication as a team from this class.

Emily Do (Frontend Lead)

Number 8 for M5



Emily Do
Sat 12/18/2021 2:49 PM

Like Share Forward ...

To: Alberto Alexander Ramirez Rodriguez; Raymond Zuo
Cc: Shailendra Hamal; Abhijai Singh; Thomas P He

- a) I was responsible for the majority of the frontend portion for milestones 1 through 5. I created the wireframes for the site and made sure my other team member Shailendra (frontend) completed them before the deadline. I coded all the frontend mockups and prototypes for the website and created the templates and css files for the about, browse, dashboard, edit profile, home, inbox, layout, login, messaging, register, results, tutor, and view messages pages. I also helped in connecting the pages to the database.
- b) I made 95 commits to the feature branch as that was what the team worked primarily on.
- c) My main challenge was that I was completely new to all of the technologies we used. I had never done any frontend work or had experience in Bootstrap, MySQL, Flask, or Python. It was difficult for me to learn so many things at once. The lack of structure when it came to deadlines and expectations and having to take on a large portion of the coding work was stressful. Thomas played a significant role in getting the website done before the deadline.
- d) I would aim to write neater and better code as well as manage my time and assign tasks better.

...

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

Thomas He (Back-end Lead)



Thomas P He <the2@mail.sfsu.edu>

7:36 AM



To: Alberto Alexander Ramirez Rodriguez; Raymond Zuo; Emily Do; Abhijai Singh; Shailendra Hamal

Hi all,

1. Contributions to team project and teamwork-
 - a. Set up remote database, relationship diagram that could scale well
 - b. Set up webserver from AWS, deployed app to a continuously running url
 - c. Taught teammates how to use frameworks/libraries from python so everyone can run their own environment of the web app that could connect to the database
 - d. Helped debugged with people who worked with the backend
 - e. Communicated with frontend to meet requirements for M5
2. Number of submissions he/she made to github team Dev. Branch:
 - a. 60 commits of mostly backend code and pull merges with the front end
3. One brief paragraph on main challenges
 - a. There was a big issue on the application that crashed it, but was fixed after one small fix. The main challenge I faced was lack communication with teammates for most of the semester. At first I was excited to build a website with a working backend, I thought we would set up frequent meetings to talk about our plans and ideas and it would be a good experience. Working online is probably a positive in this environment since we wouldn't have to peer code in the computer lab or the library, and we could easily keep track of updates to the project with commits. There weren't many meetings, not even one-on-ones, so it was hard to get feedback on the website and my decisions. I got a lot of good feedback last night from Emily when we tried finishing the website requirements.
4. One brief paragraph on what would he/she do better next time based on what was learned in the class about SE management and processes
 - a. I would take more initiative to get code reviews and feedback for the website and database structure. I wish I got Abhijai more involved because it was a new language for him. I enjoy communicating as a team to coordinate, so I wish to do more of that. I hope next time

Thanks,
Thomas

Abhijai Singh (Back-End Developer)



Abhijai Singh

Sat 12/18/2021 2:56 PM



To: Alberto Alexander Ramirez Rodriguez

Cc: Emily Do; Thomas P He; Shailendra Hamal; Raymond Zuo

Hey Team,

- A) My role was primarily as a Backend Developer for this project. Contributed towards PDF writeups and documentation for all Milestones and worked mainly with MySQL Workbench managing the Database.
- B) Total number of submissions to the Github were less than 5.
- C) Major problems we faced included an issue with the AWS connection which was subsequently resolved. Another issue I would point to was certainly a lack of cohesivity towards the middle and end period of the project, which I felt was the result of infrequent meetings. This was likely always going to be a challenge trying to coordinate 6 group members, especially since we're all in our final year, so it wasn't unexpected given the circumstances.
- D) I figured out how to manage WorkBench well as it was my first time working with this software. However moving forward I need to pickup any new languages faster for future projects as I didn't get to assist Thomas as much I hoped to and decided to ultimately focus almost solely on the Database. I can also stand to work on my time management and prompt better communication with teammates.

Thanks,

Abhijai Singh