

Final Project for SW Engineering Class CSC

648-848 Fall 2024”

Team 04:
Tutoring Platform: GatorAid

André Shannon (Team Lead, ashannon1@sfsu.edu)

Fernando Malca (Back-End Lead)

Anh Tran (Front-End Lead)

Geetarth Meduri (GitHub Master)

Aditya Sharma (Full-Stack Member)

<http://ec2-54-215-254-157.us-west-1.compute.amazonaws.com/>

December 18, 2024

Product Summary:

Name of the Product

GatorAid

Description

GatorAid is a tutoring platform designed specifically for the San Francisco State University (SFSU) community. Its primary purpose is to connect students with SFSU-affiliated tutors who are knowledgeable about specific courses offered at the university. Unlike generic tutoring platforms, GatorAid is tailored to SFSU's curriculum, ensuring course-specific academic guidance. This streamlined and accessible platform facilitates internal communication between tutors and tutees while ensuring all users are affiliated with SFSU, creating a highly focused and relevant tutoring experience.

Major Committed Functions (P1 List)

UnregisteredUsers

1. Users shall be able to register
2. Users shall be able to browse the tutors
3. Users shall be able to view tutor info
4. Users shall be able to search the tutors by subject and tutor name
5. Users shall be able to search the tutors by SFSU class name/number
6. Users shall be able to sort tutors by price range
7. Users shall be able to view an about page of the team members

RegisteredUsers

8. RegisteredUsers shall inherit all the capabilities of unregistered users
9. RegisteredUsers shall be able to apply to become a tutor
10. RegisteredUsers shall be able to send messages to tutors
11. The RegisteredUsers' dashboard shall display messages received from tutees
12. The RegisteredUsers' dashboard shall display any of the user's tutor posts
13. RegisteredUsers shall be able to login
14. RegisteredUsers' can specify courses they are offering tutoring for.
15. All RegisteredUsers must be verified as affiliated with SFSU before account creation.

Admins

14. Admins shall inherit all the capabilities of registered users
15. Admins shall be required to approve or reject tutor postings before they go live
16. Admins shall be able to remove postings
17. Admins shall be able to remove users

URL: ec2-54-215-254-157.us-west-1.compute.amazonaws.com

Milestone Documents – M1-M4:

Product Screen Shots:

Homepage:

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

GatorAid All Subjects Search for tutors Search About Apply to be a Tutor

Welcome to GatorAid!
Find SFSU Tutors Quick
or
Become A GatorAid Tutor

Recent Tutors:



Bob Roberts
CSC Tutor



Patel Williams
MATH Tutor



Emily Knight
MATH Tutor

Recent Tutors:



Bob Roberts
CSC Tutor
\$25.00/hr
[View CV](#)
Courses:
CSC 220 Data Structures
CSC 413 Software Development
[Message](#)



Patel Williams
MATH Tutor
\$23.00/hr
[View CV](#)
Courses:
MATH 325 - Linear Algebra
MATH 370 - Real Analysis I
MATH 420 Combinatorics
MATH 425 Applied and Computational Linear Algebra
[Message](#)



Emily Knight
MATH Tutor
\$20.00/hr
[View CV](#)
Courses:
MATH 228 - Calculus III
MATH 325 - Linear Algebra
MATH 370 - Real Analysis I
MATH 376 - Ordinary Differential Equations I
MATH 420 Combinatorics
[Message](#)

Search Results:

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

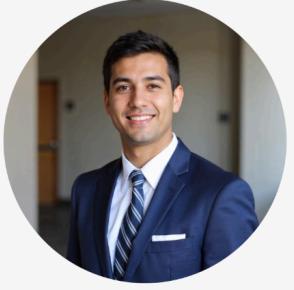
GatorAid All Subjects Search for tutors Search About Become a Tutor

Available Tutors

Numbers of Tutors Found: 15



Alice Smith
CSC Tutor
Expert in Multiplayer Systems & Mobile Apps
\$25.00/hr
[View CV](#)
Bio: I specialize in software development and mobile app design, with experience in courses like Multiplayer Game Development.



Bob Johnson
CSC Tutor
Programming Basics and Software Design Tutor
\$30.00/hr
[View CV](#)
Bio: Passionate about teaching foundational programming skills and software design, leveraging my experience in courses like Intro to Programming and Software Design.

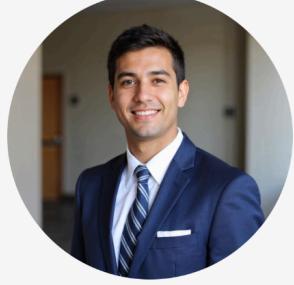


Carol Williams
CSC Tutor
Quality Assurance and Advanced Testing Specialist
\$28.00/hr
[View CV](#)
Bio: Skilled in quality assurance and testing strategies, with knowledge from courses like Software Testing and Project Management.

Numbers of Tutors Found: 15



Alice Smith
CSC Tutor
Expert in Multiplayer Systems & Mobile Apps
\$25.00/hr
[View CV](#)
Bio: I specialize in software development and mobile app design, with experience in courses like Multiplayer Systems and Mobile App Development.
Courses:
413 - Software Development
631 - Multiplayer Game Development
648 - Software Engineering
[Message](#)



Bob Johnson
CSC Tutor
Programming Basics and Software Design Tutor
\$30.00/hr
[View CV](#)
Bio: Passionate about teaching foundational programming skills and software design, leveraging my experience in courses like Intro to Programming and Software Design.
Courses:
415 - Web Development
635 - Mobile App Development
649 - Cloud Computing
[Message](#)



Carol Williams
CSC Tutor
Quality Assurance and Advanced Testing Specialist
\$28.00/hr
[View CV](#)
Bio: Skilled in quality assurance and testing strategies, with knowledge from courses like Software Testing and Project Management.
Courses:
410 - Intro to Programming
632 - Software Design Patterns
640 - Database Management
[Message](#)

About Us:

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

GatorAid All Subjects Search for tutors Search About Apply to be a Tutor

About Us

Software Engineering SFSU
Fall 24', 2024
Section 03
Team 04

Fernando Malca
Back-End Team Lead

André Shannon
Team Lead

Aditya Sharma
Team Member

Anh Tran
Front-End Lead

Geetarth Meduri
Github Master

Tutor Application Form:

Tutor Application Form

*Indicates required fields

Subject (If you want to apply for more than one subject, please fill out an application for each subject)*

Select a subject

Courses Taken (Please list only relevant courses for which you have received a B or higher in separated by commas)*
Ex: CSC 220 Data Structures, CSC 413 Software Development, etc.

Ex: CSC 220 Data Structures, CSC 413 Software Development

Title of Your Posting*

Write a unique title for yourself

Bio*

Write a brief bio about yourself

Hourly Rate (\$)*

Ex: 25.00

Title of Your Posting*

Write a unique title for yourself

Bio*

Write a brief bio about yourself

Hourly Rate (\$)*

Ex: 25.00

Video Description (please give a short description of the uploaded video)

Describe your video introduction

Upload Video (MP4/MOV):

Choose File No file chosen

Profile Picture *

Choose File No file chosen

Upload CV *

Choose File No file chosen

Cancel

Submit Application

Create Account:

New Account

FIRST NAME*

LAST NAME*

EMAIL*

USERNAME*

PASSWORD*

[CREATE A NEW ACCOUNT](#)

[ALREADY HAVE AN ACCOUNT? SIGN IN](#)

CANCEL

Login:

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

GatorAid All Subjects Search for tutors Search About Apply to be a Tutor

SIGN IN

USERNAME:

PASSWORD:

[Create a new account](#) [Forgot password?](#)

Login

Recent Tutors:



Bob Roberts
CSC Tutor



Patel Williams
MATH Tutor



Emily Knight
MATH Tutor

Subject Search:

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

GatorAid CSC Search for tutors Search About Apply to be a Tutor

Available Tutors

Number of Tutors Found: 6

Sort by Hourly Rate: Low to High



Alice Smith
CSC Tutor
\$25.00/hr
[View CV](#)
Bio: hello test bio



Bob Johnson
CSC Tutor
\$30.00/hr
[View CV](#)
Bio:



Carol Williams
CSC Tutor
\$28.00/hr
[View CV](#)
Bio:

Database Organization:

Messages table:

Filter objects

> sys
v t4db
 Tables
 Messages
 Columns
 message_id
 user_id
 tutor_id
 message
 timestamp
 Indexes
 Foreign Keys
 Triggers

1 • SELECT * FROM t4db.Messages;

Result Grid Filter Rows: Search Edit: Export/Import:

	message_id	user_id	tutor_id	message	timestamp
▶	NULL	NULL	NULL	NULL	NULL
▶					
▶					
▶					
▶					

RegisteredUsers table:

Filter objects

```
1 • SELECT * FROM t4db.RegisteredUsers;
```

Result Grid Filter Rows: Search Edit: Export/Import:

	user_id	first_name	last_name	username	password	email
▶	10	Alice	Smith	asmith10	securepassword123	
	11	Bob	Johnson	bjohnson20	securepassword456	
	12	Carol	Williams	cwilliams30	securepassword789	
	13	David	Brown	dbrown40	securepassword101	
	14	Emily	Davis	edavis50	securepassword202	
	15	Albert	Dun	adun	13579	
	16	Emily	Knight	emilyisawesome	2468	
	17	Patel	Williams	pwilliams	securepassword303	
	18	John	Doe	john_doe12@gmail.com	john_doe	
	19	John	Doe	johnyboy12	\$2b\$10\$X50uGUqDM5WtrClJwwy7H.AS3PIVZF...	
	20	Doe	Dobert	DoeDobert12	\$2b\$10\$2EfOxvGzOY4aDVDCYA.070YBLm...	doe...
	21	John	Robert	Johnesie	\$2b\$10\$0gIMdfpG2qUDFB1W6tugezDNZhM...	john...
	22	John	Bob	johnboe	\$2b\$10\$Vzxvl8mMJGB0GdmthY1ukj/sVLm7...	john...
	23	Rob	Robert	RobBob	\$2b\$10\$ru4MecCquoa2JZp5OfpOusX2dzlY4...	rob...
	24	Adi	Sharma	adixsharma	\$2b\$10\$yfaTKJYvdI2jkxbvWLjuNcAd7JSXG...	asha...
	25	Bob	Roberts	boberDoe	\$2b\$10\$sdq9MwNe/h2K3jcDW/c5ekdHcsYZO...	bob...
	HULL	HULL	HULL	HULL	HULL	HULL

RegisteredUsers 1 Apply Revert

Sessions table:

Filter objects

```
1 • SELECT * FROM t4db.sessions;
```

Result Grid Filter Rows: Search Edit: Export/Import:

	session_id	expires	data
▶	-cRfnTCgpovmVrIAQcqXATXeQ0OPdyAv	1734638469	{"cookie": "originalMaxAge": null, "expires": null, "s...
	-dPxNy33j9i0FxwQ-jllJOJChn6GjHG	1734626230	{"cookie": "originalMaxAge": null, "expires": null, "s...
	-nmBnPNUowBbgL4-jG861C0v08ox4zj	1734603311	{"cookie": "originalMaxAge": null, "expires": null, "s...
	-oGpCDBwsO2VCzx1NdlfIKWLbCHlZwD	1734611524	{"cookie": "originalMaxAge": null, "expires": null, "s...
	-oUVd9QmPrm9nVlj_unLeYVNPr34eBhH	1734642195	{"cookie": "originalMaxAge": null, "expires": null, "s...
	0GATAPKNvVmWUJYXhJn80henGvG.JPKBw	1734624867	{"cookie": "originalMaxAge": null, "expires": null, "s...
	0bL96FUskYAVELM65-GG3i60GbJMVG	1734611527	{"cookie": "originalMaxAge": null, "expires": null, "s...
	1JnAa4Diu6Jx7GLNuMzlSiXkyrlnwa	1734638601	{"cookie": "originalMaxAge": null, "expires": null, "s...
	1SwH0atBSwNou5eBoVGMvbFnMSCWjG3	1734625071	{"cookie": "originalMaxAge": null, "expires": null, "s...
	1bwxUJ78i126SzyahLeHWwY5G9BT	1734649536	{"cookie": "originalMaxAge": null, "expires": null, "s...
	23A-2DN7C1NB7w-pfgIS3DPdzK7NJz	1734626620	{"cookie": "originalMaxAge": null, "expires": null, "s...
	24KgZ324KvZVM3oTrkcYZkOmV-26jk	1734604559	{"cookie": "originalMaxAge": null, "expires": null, "s...
	2MIk4VG9h74lg991ajAJU0TqBFgMu	1734620121	{"cookie": "originalMaxAge": null, "expires": null, "s...
	2VwtzGu0JdzpVUgAHv_M_aCD50GLEa8	1734606884	{"cookie": "originalMaxAge": null, "expires": null, "s...
	2r0r_EiSH740Rv3b2M_DM16X890Y41W	1734625072	{"cookie": "originalMaxAge": null, "expires": null, "s...
	2yHeUNBlWI9ee7JqywhItVsnnDaZmv	1734603267	{"cookie": "originalMaxAge": null, "expires": null, "s...
	3DVM38aAaqXOAgpB3W7baAo54vPkACb6	1734610983	{"cookie": "originalMaxAge": null, "expires": null, "s...

sessions 1 Apply Revert

Subjects table:

Filter objects

```
1 • SELECT * FROM t4db.Subjects;
```

sys

t4db

Tables

- Messages
- RegisteredUsers
- sessions
- Subjects
- Columns
- subject_id
- subject_name
- Indexes
- Foreign Keys
- Triggers
- TutorPosts

Result Grid | Filter Rows: Search | Edit: | 100% | 1:1

	subject_id	subject_name
▶	1	CSC
▶	2	MATH
▶	4	PHIL
▶	3	PHYS
	NULL	NULL

TutorPosts table

Filter objects

```
1 • SELECT * FROM t4db.TutorPosts;
```

Tables

- Messages
- RegisteredUsers
- sessions
- Subjects
- TutorPosts
- Columns
- tutor_id
- user_id
- subject_id
- firstname
- lastname
- title
- courses
- profilepic
- cv
- bio
- hrly_rate
- video
- video_descript...
- tutor_rating
- num_ratings
- status
- timestamp
- Indexes

Result Grid | Filter Rows: Search | Edit: | Export/Import: | 100% | 31:1

tutor_id	user_id	subject_id	firstname	lastname	title	courses	profilepic	cv	bio	hrly_rate	video
1	10	1				413 - Software Development, 631 - Multiplayer...	BLOB	BLOB	hello test bio	25.00	NULL
2	11	1				415 - Web Development, 635 - Mobile App Dev...	BLOB	BLOB	NULL	30.00	NULL
3	12	1				410 - Intro to Programming, 632 - Software Desi...	BLOB	BLOB	NULL	28.00	NULL
4	13	1				417 - Software Testing, 634 - Software Project...	BLOB	BLOB	NULL	35.00	NULL
5	14	1				412 - Algorithm Analysis, 633 - Artificial Intellige...	BLOB	BLOB	NULL	32.00	NULL
6	15	3				PHYS 325 - Modern Physics II, PHYS 360 - Ele...	BLOB	BLOB	NULL	35.00	NULL
7	16	2				MATH 228 - Calculus III, MATH 325 - Linear Alg...	BLOB	BLOB	NULL	20.00	NULL
8	17	2				MATH 325 - Linear Algebra, MATH 370 - Real A...	BLOB	BLOB	NULL	23.00	NULL
18	25	1	Bob	Roberts	TesT	CSC 220 Data Structures, CSC 413 Software D...	BLOB	BLOB	Test B	25.00	BLOB
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

TutorPosts 1 | Apply | Revert

Action Output | Time | Action | Response | Duration / Fetch Time

1 12:08:03 SELECT * FROM t4db.TutorPosts LIMIT 0, 1000 9 row(s) returned 0.015 sec / 0.189 sec

Result Grid | Form Editor | Field Types | Query

Github organization:

Key Branches:

main: Only team lead (André) and github master (Geetarth) had access

develop: Only team lead (André) and github master (Geetarth) had access

Many feature branches (tutor-app, dashBoard-change, fontDev, etc) that everyone had access to

The screenshot shows a GitHub repository page for 'csc648-fa24-03-team04'. The repository is private and was forked from 'CSC-648-SFSU/csc-648-sfsu-csc-648-section-03-fall-2024-csc648-base-repo'. The main branch has 106 commits ahead of the develop branch. The commit list includes changes to Milestones, application, credentials, .gitignore, LICENSE, and README.md. The repository has 9 branches and 0 tags. On the right, there's an 'About' section with details about the repository being created by GitHub Classroom, and sections for Releases, Packages, and Activity.

Google analytics stats plot for your WWW site:

Didn't get it set up soon enough :'

Project management:

Used Trello to assign tasks.

CSC 648 848 Software Engineering Team 4 GatorAid

Board

This screenshot shows a Trello board titled "CSC 648 848 Software Engineering Team 4 GatorAid". The board has three main columns: "Team Tasks", "Front-End Tasks", and "Back-End Tasks".

- Team Tasks:**
 - Read M1 Document (3/5)
 - Set up Trello and Invite team
 - Geetarth, Fernando, André, Adi, Anh
 - Read M2 Part I Document (2/5)
 - Adi
 - Project Summary for M4 and M5 (Dec 17, AS)
 - Anh
 - Usability test plan for selected function (M4) (Dec 17, AT)
 - Anh
 - QA test plan and QA testing (M4) (Dec 17, AT)
- Front-End Tasks:**
 - Fix mockups/storyboard for M2 Part 1 for Use Case 2. (Oct 25)
 - Geetarth
 - Handlebars for Dashboard Page (Nov 6)
 - André
 - Make Header have hamburger menu for mobile view (Dec 17, AS)
 - André
 - Tutor post application should have a title entry (Dec 17, AS)
 - Geetarth
 - Dashboard work, see description (Dec 17, AS)
 - Adi
 - Add contact info to message (Dec 17, AS)
- Back-End Tasks:**
 - To-Do -----
 - Fernando
 - Fix example images so they look like profile pictures from a tutor site and not a dating site.
 - + Add a card

CSC 648 848 Software Engineering Team 4 GatorAid

Board

This screenshot shows a Trello board titled "CSC 648 848 Software Engineering Team 4 GatorAid". The board has four columns: "Team Tasks Done", "Front-End Tasks Done", "Back-End Tasks Done", and "Helpful Tips".

- Team Tasks Done:**
 - Geetarth, Fernando, André, Adi, Anh
 - Expand List of Main Data Types and Entities [M2] (Oct 18)
- Front-End Tasks Done:**
 - Front-End Checklist (Oct 20, 4/4, AS, AT)
 - Adi
 - Vertical Prototype Front End (search and display tutors) is throw away so don't go crazy on it. (Oct 25, AS)
 - Anh
 - Fix mockups/storyboards for M2 part 1 based on Dr. Petkovic's comments (Oct 25, AT)
 - André
 - Apply to be tutor page (Nov 6, AS)
 - André
 - Footer (Nov 6, AS)
 - André
 - Header (Nov 6, AS)
- Back-End Tasks Done:**
 - Back-End Checklist (Oct 25, 5/5, AS)
 - + Add a card
- Helpful Tips:**
 - Check and update checklists when working on tasks
 - Click on cards to view extra information/helpful descriptions
 - Add cards below the lines in the lists if needed (1/1)
 - If a card task is 100% completed and revised, archive it
 - Check the Trello Notifications in the discord to keep up-to-date [Temporary]
 - Motivational Pictures
 - + Add a card

Team member self assessment and contributions:

Andre:

From Andre Ndaye Shannon <ashannon1@sfsu.edu>
Date Tue 12/17/2024 8:51 PM
To Geetarth Meduri <gmeduri@sfsu.edu>; Fernando Abel Malca Luque <fmalcaluque@sfsu.edu>; Anh Tran <ntran24@sfsu.edu>; Aditya Sharma <asharma15@mail.sfsu.edu>

Hey all, please see Milestone 5 instructions for what to send.

My contributions to the project:

- Team Lead
- Delegating work and assigning deadlines
- Reviewing and finalizing all milestone documents
- Tutor application page
- Formatting of header with links and search bar
- Responsive menu (header) to page width

Submissions to GitHub team develop branch:

15 commits

Main challenges encountered in team project:

Communication was probably the biggest challenge I faced with this project. There were several times when I was talking to a team member and realized that we had very different ideas about what needed to be done. Making sure everyone was on the same page and knew what was expected of our project and how to get there was far more difficult than I had anticipated. In-person meetings really helped with this where we could hash out our different ideas and more easily figure out how they differed in the first place. We didn't have a second weekly in-person meeting and I think that would have been very beneficial for our teamwork. Towards the later end of the project, it was much more common to hop onto a discord call to figure out issues.

Overall experience with GenAI:

I have been skeptical of using GenAI because of its inability to verify its answers and generally didn't use it in any of my workflows. However, this class forced me to use it and I am happy for that as it helped me find places in my workflow where

GenAI can be very helpful even if it is not always accurate. As part of our stack, we used Handlebars for the front-end and I was unfamiliar with it, but it was similar enough to HTML that I could ask ChatGPT for whatever functionality I needed, add modified versions to my code, and verify it through tests, all without having to look at any Handlebars documentation. This greatly simplifying my workflow.

In addition, I used GenAI to help with several sections of the Milestone documents with varying success. It was great at brainstorming, like listing assets and finding potential security risks, but with other things like listing the database entities, it didn't have the best grasp on our project and added a lot of things beyond the scope of the project. Although, maybe that could be somewhat remedied with better prompts.

What I would do better next time:

If I were to redo this project, I would try to implement better communication practices sooner. There was a team member that was much less responsive than the others and if we had had more regular communication, I could have addressed the issue sooner. Even if we couldn't have a second in-person meeting, setting up a weekly checkpoint for everyone to touch base would have been useful much sooner. I would also want to start the use of Trello much sooner. Originally, I was delegating all the tasks through Discord and the transition to Trello wasn't very smooth and I felt like there was much less participation on Trello. If I had started the Trello board sooner, perhaps its use would have been more normalized in our workflow. Also, I would have liked to enforce deadlines a little more strictly than I did since there were many occasions where we were finishing milestones at the very last minute. One other thing, we started with React in our stack and then dropped it for Handlebars because we were worried about a big learning curve with React, but I almost wish we had stuck with React. I think our team could have handled it and React is used far more than Handlebars in the workplace.

Anything else:

I will have a few more commits to the main branch before the presentation.

Best,
Team Lead
André Shannon

Adi:

From Aditya Sharma <asharma15@mail.sfsu.edu>
Date Wed 12/18/2024 11:38 AM
To Andre Ndaye Shannon <ashannon1@sfsu.edu>; Geetarth Meduri <gmeduri@sfsu.edu>; Fernando Abel Malca Luque <fmalcaluque@sfsu.edu>; Anh Tran <antran24@sfsu.edu>

Hello Team 4.

a) Their contributions to team project and teamwork (technical and any other) in no more than half a page – list item format is OK. List also the role (e.g. front-end lead).

Front End Dev

- I was apart of all design decisions related to UI/UX
- Created homepage design with 3 recent tutor cards showcasing our product (Hbs,JS,CSS)
- I coded the entire about page and created a template for other members to use for theirs
- I helped pick design colors schemes
- I styled (CSS) every page of the website: homepage, search results, tutor app form, user registration, login popup, disclaimer popup, message popup, and about pages.
- I created the login in pop up, the tutor form disclaimer pop up, and the message pop up.
- Designed the tutor cards as well as with transitions for the mouse hover over cards and message button
- I fixed almost all of the feedback from the professor after our last demo from button uniformity and placement, form format and styling fixes, styling of cards - homepage and search, and tutor app disclaimer pop up to list a few.
- I generated all diverse sample tutor profiles pictures using chatGPT and a plugin.

b) Number of submissions they made to github team Dev. Branch (explain if this number is very low)

10-15 commits across branches including merging. I should have made more but pushed many changes at once and I'm aware it's not a recommended practice.

c) One brief paragraph on main challenges they encountered in team project

Main challenge of this project was communication and planning, particularly as we did not meet much in person outside of

1
OX

12/18/24, 4:21 PM

<https://outlook.office.com/mail/inbox/id/AAQkAGYwOGFmMDNjLTFmYzMtNDJmYiliM...>

class time except for a couple times before submissions were due. Sometimes we would go many days without checking in and when we all were working or active in the chat/discord call there still would be someone absent from the discussion and not contributing as well. Discussing design ideas sometimes became a little heated but as the year went on we got a little better.

d) One brief paragraph of their own overall experience with GenAI focusing on tasks it was applied to and how useful it was

I used GenAI for a good number of tasks as it is a great tool to ask for niche fixes or search up what I needed to use to code what I wanted to do in CSS or JS. I used it to generate all the tutor profile pictures and used it to edit some css over the duration of the project. Overall, a highly recommended tool if used with some skepticism as it needs to be checked always.

e) One brief paragraph on what would they do better next time based on what was learned in the class about SE management and processes

Next time I would absolutely enforce weekly meetings and detailed task descriptions and deadlines with a structured plan checking in every 2 days on progress till the goal is met. I would also make sure that each member is communicating with the group if any unforeseen circumstances arise so the group is aware well before the gap in work.

f) Anything else you deem important for instructors to know (e.g. why your github count is low)

My count is on the higher side but still could have been more if I followed best git practices and pushed each change even if its small incrementally instead of a dump of a bunch of changes in the first commit and then smaller ones after.

Geetarth:

a) Contributions to Team Project and Teamwork

- Role: GitHub Master
- Merged pull requests, reviewed code submissions, and resolved merge conflicts to maintain a clean and functional codebase.
- As setting up repositories
- HTML Structure: Contains a welcome message, navigation buttons, and dynamic sections for "Messages" and "Posts" populated via JavaScript.
- Event Listeners: Buttons toggle visibility between the "Messages" and "Posts" sections and trigger data loading functions.
- Dynamic Content: Messages and tutor profiles are dynamically generated using JavaScript, with placeholders for each piece of data.
- Profile Deletion: Profiles can be marked as deleted using a button, with their IDs stored in localStorage for persistence across reloads.
- Usability & Scalability: Arrays and functions modularize data handling, allowing easy updates and integration of real-time data.

b) Number of Submissions to GitHub Dev Branch

- Total Submissions: 7
- If the submission count is low, this can be attributed to me focusing on one specific part of the application which was the dashboard. My sections was the least impactful part of the program. So the amount is low. My other task was merging and reviewing team members' submissions to the **Dev** branch with a lot of help from the team lead.

c) Main Challenges Encountered

One of the main challenges I faced was ensuring proper collaboration and avoiding conflicts in the codebase. Many team members were new to GitHub, which led to issues like improper merging, pushing to the wrong branches, and inconsistent commit messages. As GitHub Master, it was challenging to address these issues while staying on top of repository

12/18/24, 4:22 PM

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maintenance. Another challenge was managing time effectively since my responsibilities often required last-minute interventions to resolve urgent repository issues.

d) Overall Experience with GenAI

GenAI tools were instrumental in assisting with documentation, generating example code snippets for team members, and resolving GitHub-related issues. For instance, I used GenAI to draft clear commit message guidelines and provide quick fixes for code-related errors that I faced. Overall, GenAI was very useful in reducing workload and providing insights, though its limitations required careful validation of suggestions.

e) Improvements for Next Time

Based on what I've learned about software engineering management, I would prioritize establishing clear workflows and GitHub best practices from the start of the project. Ensure everyone understands the importance of descriptive commits and branch organization. Additionally, I would dedicate time to creating a collaborative environment where team members feel confident in using Git and GitHub without relying too much on the GitHub Master.

Anh:

From Anh Tran <ntran24@sfsu.edu>
Date Wed 12/18/2024 1:42 PM
To Andre Ndaye Shannon <ashannon1@sfsu.edu>; Geetarth Meduri <gmeduri@sfsu.edu>; Fernando Abel Malca Luque <fmalcaluque@sfsu.edu>; Aditya Sharma <asharma15@mail.sfsu.edu>

Hello everyone,

This is Anh Tran and here is my self-assessments and contributions.

a) Their contributions to team project and teamwork (technical and any other) in no more than half a page – list item format is OK. List also the role (e.g. front-end lead).

Role: Front-end lead

- Created the registration page, general about page, and personal about page
- Contributed in search page with other details
- Using Handlebar to design and develop components that are scalable, reusable, and performant
- Worked with back-end teams to design and execute APIs that efficiently satisfied front-end requirements
- Using integrated tools for testing, monitoring, and debugging can really help improve development efficiency
- Keeping up with front-end trends and recommended technology upgrades or changes to processes that were relevant.

b) Number of submissions they made to github team Dev. Branch (explain if this number is very low): 14 counts.

At the beginning of the project when we were setting up the github and the website to run, my teammate and I were working on the same front-end and he ended up commits all of them instead of individual commitments.

c) One brief paragraph on main challenges they encountered in team project

One of the biggest challenges I faced in our team project was managing our time and communicating effectively. Managing deadlines along with other responsibilities was challenging, particularly when unexpected problems appeared. Sometimes, communication was a bit challenging because it wasn't always straightforward to ensure that everyone understood the tasks and updates. We needed to focus on enhancing our progress sharing and scheduling of meetings to boost efficiency.

d) One brief paragraph of their own overall experience with GenAI focusing on tasks it was applied to and how useful it was I really believe GenAI is super helpful! In my role as the front-end lead for my project, I relied heavily on it to help me speed up tasks such as writing code, fixing bugs, and ensuring my code adhered to best practices. It was really helpful when I had to quickly create components, write documentation, or brainstorm ideas for improving performance. Using GenAI really helped

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me save a lot of time, which allowed me to concentrate more on supporting my team and ensuring everything was running smoothly.

e) One brief paragraph on what would they do better next time based on what was learned in the class about SE management and processes

Next time, I think I should focus on being more proactive and taking on additional responsibilities with the front-end tasks. From what I picked up in class about software engineering management and processes, I understood how crucial it is to take on a leadership role, particularly in aspects like task delegation, establishing clearer timelines, and facilitating effective collaboration. If I focus on being more organized and improve my communication with the team, I can help clear up confusion and ensure we meet our deadlines more efficiently.

f) Anything else you deem important for instructors to know (e.g. why your github count is low)

My counts are fairly low as I mentioned earlier about the beginning of the project and later on in the middle of the project, I tended to have everything done locally and commit in a big file instead.

Best,
Anh Tran

Fernando:

From Fernando Abel Malca Luque <fmalcaluque@sfsu.edu>
Date Wed 12/18/2024 4:30 PM
To Geetarth Meduri <gmeduri@sfsu.edu>; Andre Ndaye Shannon <ashannon1@sfsu.edu>; Aditya Sharma <asharma15@mail.sfsu.edu>; Anh Tran <ntran24@sfsu.edu>

My contributions to the project:

- Back-End Team Lead
- Double-checked all of the backend-related code
- Added and configured the EC2 and Database Server with the repository
- Configured all the routers connecting to frontend
- Fixed conflicting issues between both ends

Submissions to GitHub Repository:

26 commits

Main challenges encountered in team project:

Managing my schedule and depending on my other team members were among the biggest challenges I faced during this project. I had to change my workflow and calendar in order often to wait for the front-end team to finish its fundamental implementations to fully connect the front end with the back end. While I mostly concentrated on working on back-end features, I occasionally had to adjust my front-end team members' commits as they often conflicted with the database. Our meeting times were also not frequent which made it tougher to know where everyone was currently at, even though we used Discord to communicate. It was still pretty challenging to communicate with one another as we occasionally were occupied with other matters during times where others were free. Towards the end of the project, we were mostly occupied with studying for exams and finishing final projects that it made it near impossible to meet up for long.

Overall experience with GenAI:

Using GenAI was helpful when writing the connections between the site and the database. GenAI was mostly used as a tool to double-check my original code and to provide certain feedback/changes that I could make to optimize it. However, occasionally, GenAI generated code chunks that did not correlate with what I asked it to generate for me, even after providing

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clear and explicit prompts. To work around this, I had to review the code that GenAI gave me to discard any changes that were not needed or would cause conflicts with the working code I currently had. I used GenAI for mostly everything regarding this assignment as it was easier for me to ask it for feedback that to look up on the internet on how to fix a certain problem.

What I would do better next time:

For next time, I'd like to manage my time more efficiently by putting some hours into working on this project. I'd also like to implement techniques that I learned while doing the database structure and setting up the SQL queries more often. I believe that this would have made my workflow and code management easier as it would have been more organized.

Anything else:

I'd like to manage my commits better in order to make it easier to understand for my team members.

Best regards,
Back-End Team Lead
Fernando Abel Malca Luque