

Milestone 5

SW Engineering CSC648/848 Fall 2022

GaterTrader

www.gatertrader.com:1234

2022-12-17

Team 7

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1. Product Summary

1.1 Name: GaterTrader

1.2 Product Description: GaterTrader is a web platform exclusive for San Francisco State University (SFSU) students, staff, and faculty to sell and share content that may be useful to all. It was built by SFSU students for the SFSU community. Students and faculty will immediately see a benefit from the school-friendly categorization of media by course and field of study. Professors will be able to publish their syllabi, notes, and handouts in one place. Students, for example, will have the opportunity to be rewarded for their creativity by facilitating buying and selling of media.

1.3 URL: <http://52.9.59.15:1234/>

1.4 Priority 1 Functions

1. unregistered-users

- a. shall be able to browse posts of items for sale.
- b. shall be able to register if they meet registration requirements.
- a. shall be able to login if they have previously created a registered-user account.
- b. shall be required to register or login in order to access media from posted items in full resolution.
- c. shall be required to register or login in order to contact another registered-user who has posted an item.

2. registered-users

- a. shall have all the requirements of unregistered-users.
- b. shall be able to post digital media for sale or for free.
- c. shall be able to receive messages from other registered-users interested in posts.
- d. shall be able to reply to messages from other registered-users who have messaged them regarding .

3. admin

- a. admin shall have all requirements of unregistered-users and registered-users.
- b. shall be required to approve each media item before it can be publicly accessed in order to verify that it conforms to GaterTrader terms of use and content policies.
- c. shall be required to delete posts that violate the terms of use and content policy.
- d. shall be required to ban registered-users who violate the terms of use or content policies of GaterTrader.

2. Milestone documents M1-M4

2.1 Milestone 1

SW Engineering CSC648/848 Fall 2022

2022-10-08

Team 7

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2.1.2 Executive Summary

We at Team 7 believe that the exchange of ideas is a fundamental component to a thriving educational environment. The selling and sharing of media, including pictures, videos, audio, and digital documents, is an essential component of this exchange of ideas. Unfortunately, this is typically managed either by private ad-based social media or restrictive educational platforms. GaterTrader is built by and for the people that give life to the university. GatorTrader is a web platform exclusive for San Francisco State University (SFSU) students, staff, and faculty to sell and share content that may be useful to all.

GaterTrader will be accessible on smartphones, tablets, and personal computers via the web. It will offer exclusive access to students, staff, and faculty. Users will be able to freely share media or offer it for sale to the rest of the university. Anyone will be able to browse and search for media. Users will be able to reach out to creators in order to express interest in purchasing or accessing content. GaterTrader will offer functionality especially tailored to collegiate use.

GaterTrader will benefit all of SFSU, including students, staff, and faculty. We are believers in the power of the exchange of media. GaterTrader will facilitate this exchange and foster collaboration, university culture, and a closer community between staff, students, and faculty.

GaterTrader will launch with unique features to best serve the university community. Students and faculty will immediately see a benefit from the school-friendly categorization of media by course and field of study. Professors will be able to publish their syllabi, notes, and handouts in one place. Students, for example, will have the opportunity to be rewarded for their creativity by facilitating buying and selling of media. Users will have the ability to collect their favorite posts into different categories, including but not limited to courses.

Team 7 developed GaterTrader as part of the computer science major's capstone course, Software Engineering (CSC648-848) with Professor Dragutin Petkovic. We are a diverse team of software engineers striving to make our "dent in the universe," beginning with San Francisco State University. Our team is made up of members from Asia, Europe, Latin America, and California, including our local San Francisco Bay Area.

2.1.3 Personas and Use Cases

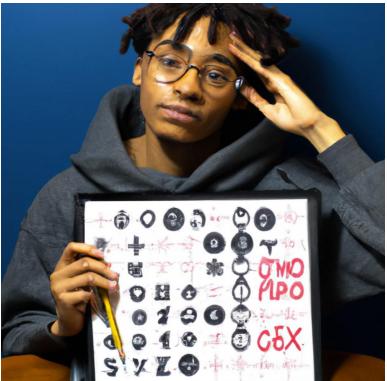
2.1.3.1 Where to look

Persona 1: SFSU Student (Fiona)	Goals and Scenario:
 <p>Hectic schedule Many projects Doesn't have a high paying job Helps tutor 4th graders part time Technically Savvy Enjoys browsing social media sites</p>	<p>Has a presentation using PowerPoint and doesn't know where to look online for photos and eBooks for reference. Every site Fiona encounters is too expensive, or doesn't provide free use resources.</p> <p>Fiona has heard that stock photos are available online and searches for a practical site. Fiona hopes to find reasonably priced school resources for the presentation.</p>

2.1.3.2 Where to upload

Persona 2: SFSU Faculty (Frank)	Goals and Scenario:
 <p>Enjoys relaxing to favorite podcast Many students to account for Technologically resourceful Class requires students to download online textbook resources</p>	<p>Wishes to upload course books to a site where students can download.</p> <p>Believes it is less demanding for students if course books and media are available in the same place.</p> <p>Wants students to learn the required material and have the capability to share.</p>

2.1.3.3 Building the System

Persona 3: SFSU System Admin (Liam)	Goals and Scenario:
 <p>Was a student TA at Ohio State Avid blog reader People person and family oriented Moderate Coding skills with database experience Enjoys solving crossword puzzles</p>	<p>Liam wants to assist in creating an app where students can find various sources of media. Believes online content to be very useful. Wants to help with the technical design and planning of the system infrastructure Hopes student will use the site regularly with little to no issues</p>

2.1.4 Use Cases

2.1.4.1 Searching

Fiona, a hard working student, decides to use Team 7's Web application in order to acquire stock photos for their class project. As the site provides inexpensive media, Fiona uses the site to find media and discovers it is easy to locate based on course classification. Fiona, unsure if the digital media is usable for the class project, proceeds to read the description. Fiona then decides to send a message to the owner of the media. Upon doing so Fiona is prompted to register or login.

2.1.4.2 Posting

Frank uses the night time to find a site where course content can be uploaded for students to use. Stumbling across a link in discord, a digital media distribution site run by SFSU students appears to provide a solution. Excited about this discovery, Frank locates the post section of the webpage and decides to upload the class books and digital resources. After completing the post info, Frank is prompted to register or login. Frank is then greeted with a message that states the post may take up to 24 hours for admin approval.

2.1.4.3 Admin

Liam, with some spare time, walks into an open classroom and checks the pending posts. Liam notices that many posts have been made overnight and are awaiting approval. Tasked with content organization, Liam's goal is to ensure everything posted is safe for all students, and put into the right category. After covering all the bases, Liam proceeds to approve the posts.

2.1.4.4. Checking on Product

While Liam was browsing through the posts that are pending for arrival, he sees a post that has potential to be copyrighted material. With the team 7's best interests in mind, Liam denies the post and prevents any illegal recourse. Liam decides to deny any postings that has any potential to put the company in jeopardy. Liam then notifies the user whether the post was approved or denied.

2.1.5 Data Glossary

This section provides a list and a definition of the main entities in our system at a high logical level. The purpose of this section is to offer an early high-logical level design for the database. It also provides a specific set of names that can be referred to and used by variables, methods and the database itself.

2.1.5.1 Users:

- a. unregistered-users: they shall be able to browse the posts' content, search for specific content, view posts made by registered-users, and draft messages before sending them.
- b. registered-users: they shall do all the things that unregistered-users do plus post multimedia documents and send messages to other registered-users.
- c. admin: they shall be required to approve/disapprove the content of a post, they shall ban registered-users for violation of the webapp content policy.

2.1.5.2 Data Entities:

- d. posts: these entities are created by registered-users and they are visible to all users. They shall have:
 - i. author
 - ii. title
 - iii. description
 - iv. creation date and time
 - v. multimedia content
 - vi. thumbnail
 - vii. associated category
 - viii. price
- e. messages: these entities represent text messages sent by registered-users to other registered-users in relation to a specific post. They shall have:
 - i. author
 - ii. text content
 - iii. receiver
 - iv. creation date and time
 - v. post affiliation
- f. categories: these entities constitute the set of possible categories that each post can be associated with, they are going to be used in the search bar and in the posting page as a list to be chosen from when you search a post or when you post multimedia content. They shall have:
 - i. name
 - ii. number

- g. registered-users-record: these entities are created to store a file record of each registered-user. They shall have:
 - i. user-id
 - ii. username
 - iii. email
 - iv. password
 - v. active
 - vi. Creation-time

2.1.6 Functional Requirements

1. unregistered-users:
 - a. shall be able to search and browse posts of items for sale, including filtering items by categories.
 - b. shall be able to register if they meet registration requirements.
 - c. shall be able to login if they have previously created a registered-user account.
 - d. shall be required to register or login in order to access media from posted items in full resolution.
 - e. shall be required to register or login in order to contact another registered-user who has posted an item.
2. registered-users:
 - a. shall have all the requirements of unregistered-users.
 - b. shall be able to post digital media for sale or for free.
 - c. shall be able to receive messages from other registered-users interested in posts.
 - d. shall be able to reply to messages from other registered-users who have messaged them regarding .
3. admin:
 - a. admin shall have all requirements of unregistered-users and registered-users.
 - b. shall be required to approve each media item before it can be publicly accessed in order to verify that it conforms to GaterTrader terms of use and content policies.
 - c. shall be required to delete posts that violate the terms of use and content policy.
 - d. shall be required to ban registered-users who violate the terms of use or content policies of GaterTrader.

2.1.7 Non-functional Requirements

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0.
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of two major browsers.
3. All or selected application functions must render well on mobile devices.
4. Data shall be stored in the database on the team's deployment server.
5. No more than 50 concurrent users shall be accessing the application at any time.
6. Privacy of users shall be protected.
7. The language used shall be English (no localization needed).
8. Application shall be very easy to use and intuitive.
9. Application 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 email clients shall be allowed. Interested users can only message to sellers via in-site messaging. One round of messaging (from user to seller) is enough for this application.
13. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated in UI.
14. Site security: basic best practices shall be applied (as covered in the class) for main data items.
15. Media formats shall be standard as used in the market today.
16. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development.
17. The application UI (WWW and mobile) shall prominently display the following exact text on all pages "*SFSU Software Engineering Project CSC 648-848, Fall 2022. For Demonstration Only*" at the top of the WWW page nav bar. (Important so as to not confuse this with a real application).

2.1.8 Competitive Analysis

Sites	Adobe Stock	Pexels	Unsplash	Team 7
Features				
Download free	+**	+	+	+
Buy on Demand	+	-	-	+
Filter By	+	-	+	+
Search	+	+	+	+
Favorites	+	+	+	+
Preview	+	+	+	+
In-app Chat	-	-	-	+
Register/ Log-in	+	+	+	+
Variety of Media Types	-	-	-	++
Tentative: Can create collections	+	+	+	+
Search by SFSU classes	-	-	-	+

+**: Included with trial

- : not included

+ : included

++ : excellent

GaterTrade aims to incorporate the main features of sites such as Adobe Stock, Pexels, and Unsplash. Each of these media distribution organizations hold their own competitive advantage. Unsplash provides free services, where Adobe Stock allows free downloads after accepting the trial and optional licensing rights upon purchase. Each of the sites provide the ability for users to input text into the search bar and find images and videos. Previewing media is available across all competitor sites. Team 7's project is for SFSU students and faculty, and we will provide users with the ability to contact the

provider/author of the digital media they wish to acquire. This unique ability to contact a seller guarantees customer satisfaction. This also allows users (students) to inquire and potentially bargain for reasonable pricing. Upon analysis, this unique feature separates Team 7's application from the competition and grants SFSU users manageable communication with digital media providers. Another distinct feature our application aims to provide users is the ability to access various forms of media. In comparison to the other competitors, they offer solely access and downloads to digital art and photos. This distinction from competitors further encourages students to access our site to discover useful content necessary for entertainment and their coursework.

2.1.9 High-level System Architecture

- Server:
 - Amazon EC2 (free software tier)
 - AWS Cloud
 - T2.micro
 - 1 vCPU
 - 1GiB Memory
- Operating System:
 - Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
- Database: MySQL v8.0
- Server-Side Language: JavaScript
- Other tools/tech:
 - Handlebars
 - Node.JS
 - Express.JS
 - Google Analytics
- IDE:
 - Visual Studio Code
 - (alternative: JetBrains WebStorm)

2.1.10 Team and Roles

Name	Role	Email
Gineton Alencar	Team Lead	galencar@mail.sfsu.edu
Eddie Fu	Front-end Lead	efu1@mail.sfsu.edu
Duccio Rocca	Back-end Lead	drocca@mail.sfsu.edu
Yoshimasa Iwano	GitHub Master, Engineer	yiwano@mail.sfsu.edu
Dominique Henry	Document Master, Engineer	dhenry3@mail.sfsu.edu
Rai'd S. Muhammad	Software Engineer	rmuhammad@mail.sfsu.edu
Kobe D. Shelby	Software Engineer	kshelby@mail.sfsu.edu

2.1.11 Checklist

Item	Status
So far all team members are engaged and attending ZOOM sessions when required	OK
Team found a time slot to meet outside of the class	Done/On track: meetings alternating on Tuesdays and Fridays due to scheduling conflicts.
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/OK
Team lead ensured that all team members read the final M1 and agree/understand it before submission	Done
Github is organized as discussed in class (e.g. master branch, development branch, folder for milestone documents etc.)	Done

2.2 Milestone 2

SW Engineering CSC648/848 Fall 2022

2022-11-05

Team 7

Name	Role	Email
Gineton Alencar	Team Lead	galencar@mail.sfsu.edu
Eddie Fu	Front-end Lead	efu1@mail.sfsu.edu
Duccio Rocca	Back-end Lead	drocca@mail.sfsu.edu
Yoshimasa Iwano	GitHub Master, Engineer	yiwano@mail.sfsu.edu
Dominique Henry	Document Master, Engineer	dhenry3@mail.sfsu.edu
Rai'd S. Muhammad	Software Engineer	rmuhammad@mail.sfsu.edu
Kobe D. Shelby	Software Engineer	kshelby@mail.sfsu.edu

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1. Executive Summary

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GaterTrader will be accessible on smartphones, tablets, and personal computers via the web. It will offer exclusive access to students, staff, and faculty. Users will be able to freely share media or offer it for sale to the rest of the university. Anyone will be able to browse and search for media. Users will be able to reach out to creators in order to express interest in purchasing or accessing content. GaterTrader will offer functionality especially tailored to collegiate use.

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GaterTrader will launch with unique features to best serve the university community. Students and faculty will immediately see a benefit from the school-friendly categorization of media by course and field of study. Professors will be able to publish their syllabi, notes, and handouts in one place. Students, for example, will have the opportunity to be rewarded for their creativity by facilitating buying and selling of media. Users will have the ability to collect their favorite posts into different categories, including but not limited to courses.

Team 7 developed GaterTrader as part of the computer science major's capstone course, Software Engineering (CSC648-848) with Professor Dragutin Petkovic. We are a diverse team of software engineers striving to make our "dent in the universe," beginning with San Francisco State University. Our team is made up of members from Asia, Europe, Latin America, and California, including our local San Francisco Bay Area.

2. Data Entities

2.1 Users

1. **unregistered-users:** they shall be able to browse the posts' content, search for specific content, view posts made by registered-users, and draft messages before sending them.
2. **registered-users:** they shall do all the things that unregistered-users do plus post multimedia documents and send messages to other registered-users.
3. **admin:** they shall be required to approve/disapprove the content of a post, they shall ban registered-users for violation of the webapp content policy.

2.2 Data Entities

4. **posts:** these entities are created by registered-users and they are visible to all users.
They shall have:
 - a. post_id
 - b. author_id
 - c. title
 - d. post_category
 - e. post_description
 - f. post_path
 - g. post_creation_time
 - h. post_thumbnail
 - i. price
5. **messages:** these entities represent text messages sent by registered-users to other registered-users in relation to a specific post. They shall have:
 - a. message_id
 - b. post_id
 - c. author_id
 - d. receiver_id
 - e. message_text
 - f. creation_time
6. **categories:** these entities constitute the set of possible categories that each post can be associated with, they are going to be used in the search bar and in the posting page as a list to be chosen from when you search a post or when you post multimedia content. They shall have:
 - a. Category_id
 - b. Category_name
7. **users:** these entities are created to store a file record of each registered-user. They shall have:
 - a. user_id
 - b. username
 - c. email
 - d. password
 - e. creation_time
 - f. active

3. Functional Requirements

3.1 Priority 1

1. unregistered-users

- a. shall be able to browse posts of items for sale.
- b. shall be able to register if they meet registration requirements.
- a. shall be able to login if they have previously created a registered-user account.
- b. shall be required to register or login in order to access media from posted items in full resolution.
- c. shall be required to register or login in order to contact another registered-user who has posted an item.

2. registered-users

- a. shall have all the requirements of unregistered-users.
- b. shall be able to post digital media for sale or for free.
- c. shall be able to receive messages from other registered-users interested in posts.
- d. shall be able to reply to messages from other registered-users who have messaged them regarding .

3. admin

- a. admin shall have all requirements of unregistered-users and registered-users.
- b. shall be required to approve each media item before it can be publicly accessed in order to verify that it conforms to GaterTrader terms of use and content policies.
- c. shall be required to delete posts that violate the terms of use and content policy.
- d. shall be required to ban registered-users who violate the terms of use or content policies of GaterTrader.

3.2 Priority 2

1. unregistered-users

- a. shall be able to search posts using a query.
- b. shall be able to filter posts by categories:
 - i. free or paid.
 - ii. type of media.
 - iii. course.

2. registered-users

- a. shall be able to favorite posts.
- b. shall be able to view posts they have favorited.

3. admin

3.3 Priority 3

1. unregistered-users

- a. shall be able to filter posts by:
 - i. professor.
 - ii. college.
 - iii. price brackets.

2. registered-users

- a. shall be able to create named lists to group favorited posts.

3. admin

- a. shall be able to accomplish administrative tasks using a dashboard on the website.

4. UI Storyboards

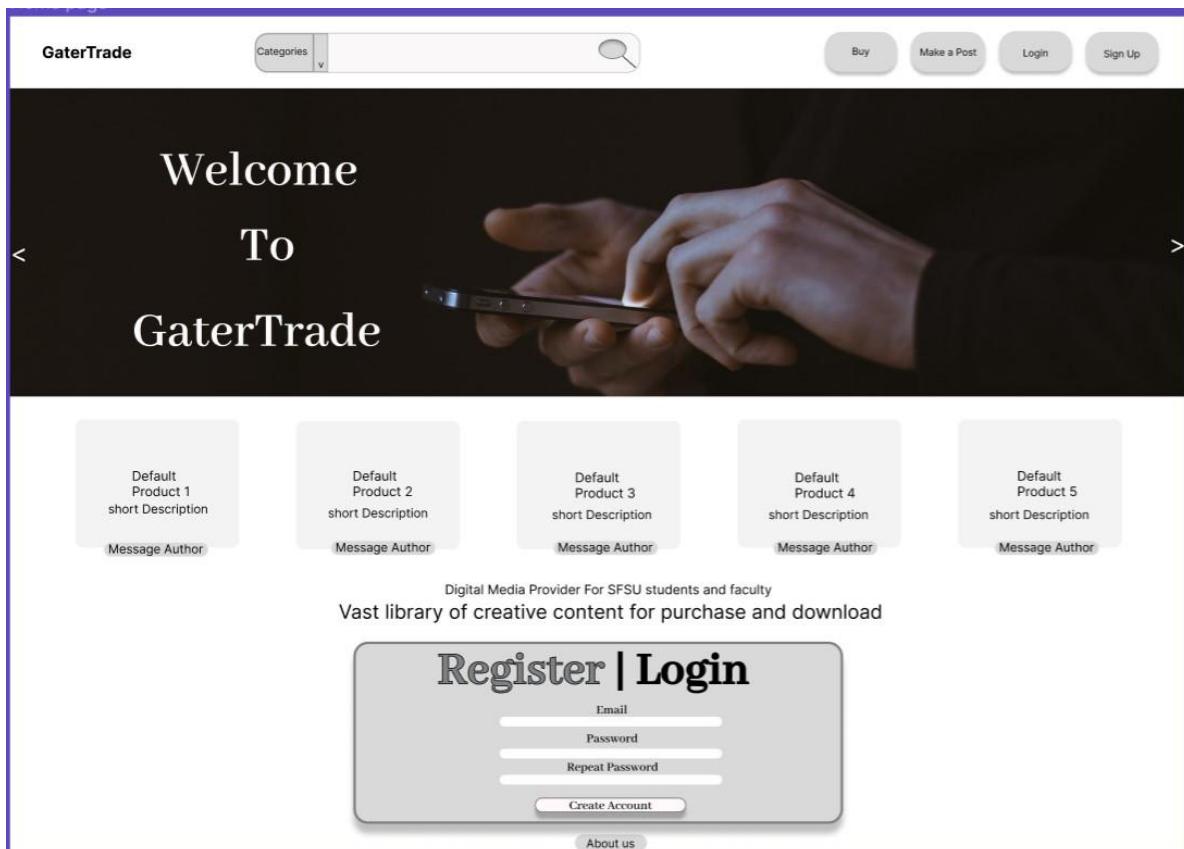
4.1 StoryBoard 1: Search

color is used to depict user selection or text input. Not the color choice for the site. Purple is the user chosen figma background (poor photo crop)

Shadows are for visual effect and have no final place in the implementation of the webpage.

Use Case Description: Fiona searches the site for media based on course classification.

1) Fiona types in the address which leads her to the site's home page. She aims to find an eBook based on her course. She selects the category and inputs her course name.



- 2) Fiona selects the category “Courses” from the dropdown menu and inputs “CSC 648.” She presses ‘enter’ and is greeted with a populated page with course materials.

The screenshot shows a web browser window for 'GaterTrade'. At the top, there's a navigation bar with 'Categories' (dropdown), 'CSC 648' (search input), a magnifying glass icon, and buttons for 'Buy', 'Make a Post', 'Login', and 'Sign Up'. On the left, a sidebar lists categories: Courses (selected), Videos, E-Books, Photos, and Audio. The main content area features a large banner with the text 'Welcome To GaterTrade' and a background image of hands holding a smartphone. Below the banner, five product cards are displayed, each with a placeholder image and the text 'Default Product 1 short Description' and 'Message Author'. A promotional message at the bottom reads 'Digital Media Provider For SFSU students and faculty' and 'Vast library of creative content for purchase and download'. A central 'Register | Login' button with fields for Email, Password, and Repeat Password is shown, along with a 'Create Account' button and a small 'About us' link.

3a) The search bar maintains the previous state. As Fiona continues to browse the site, Fiona notices an item which grabs her attention. She clicks on the content and is greeted by a content page with the selected content.

The screenshot shows a website interface for 'GaterTrade'. At the top, there is a navigation bar with 'Courses' (selected), 'CSC 648' (searched term), a magnifying glass icon, and buttons for 'Buy', 'Make a Post', 'Login', and 'Sign Up'. Below the navigation, the text 'Courses > CSC 648' and 'Showing 1 - 10 Results of 50' is displayed. The main area is titled 'Results' and contains ten items arranged in two rows of five. Each item card has a title ('Default Product 1' through 'Default Product 5'), a short description, and a 'Message Author' link. The third item in the first row ('Default Product 3') is highlighted with a blue background. Below the cards is a 'Related Items' section with a button showing page numbers (1, 2, 3, 4, 5, >) and a 'About us' link at the bottom.

Courses > CSC 648

Showing 1 - 10 Results of 50

Results

Default Product 1
short Description
Message Author

Default Product 2
short Description
Message Author

**Default Product 3
short Description
Message Author**

Default Product 4
short Description
Message Author

Default Product 5
short Description
Message Author

Default Product 1
short Description
Message Author

Default Product 2
short Description
Message Author

Default Product 3
short Description
Message Author

Default Product 4
short Description
Message Author

Default Product 5
short Description
Message Author

Related Items

1 2 3 4 5 >

About us

- 4a)** The content page displays the author's name and content type, with the properties near an image of the media. Fiona notices the price and is excited to message the author of this eBook. Fiona clicks submit and is greeted with a “registration | login” page.

GaterTrade

Courses CSC 648

Buy Make a Post Login Sign Up

Courses > CSC 648

Showing 1 Result

George Hixler's eBook



Legacy of the Midnight Marauders

Description: This will be info on the book.
Short description.

PRICE: FREE
Popularity: High

FileSize: 3.23 MB FileType: eBook Category: Course Material Price: 0.00

Message Author . Max 150 characters.

Text Showing Interests in materials. This is a user message.

Clear Message Submit Message

About us

5a) Fiona is an unregistered user and must input her student information in order to message the author of this post. Her SFSU email and a password are required to use the site in full. Fiona fills out the registration form to become a registered user.

The screenshot shows a web browser window for the GaterTrade website. At the top, there is a navigation bar with links for 'Courses' (highlighted), 'CSC 648', a search icon, and buttons for 'Buy', 'Make a Post', 'Login', and 'Sign Up'. Below the navigation, the text 'Courses > CSC 648' and 'Showing 1 - 10 Results of 50' is displayed. A sidebar on the left shows a stack of books with the text 'FileSize: 3.23 MB FileType: eBook Category:'. In the center, a large modal window titled 'Register | Login' contains three input fields: 'Email', 'Password', and 'Repeat Password', each with a corresponding text input box. Below these fields is a 'Create Account' button. To the right of the modal, a section titled 'Midnight Marauders' displays a snippet of text: 'info on the book. cption.' At the bottom of the page, there are two buttons: 'Clear Message' and 'Submit Message'. A small 'About us' link is located at the very bottom center.

Courses > CSC 648
Showing 1 - 10 Results of 50

FileSize: 3.23 MB FileType: eBook Category:

Register | Login

Email

Password

Repeat Password

Create Account

Midnight Marauders

info on the book. cption.

Message Author . Max 150 characters.

Text Showing Interests in materials. This is a user message.

About us

Alternative Route

3b) Alternatively, Fiona can press the 'Message Author' button when she first encounters the material of interest from the search results. When Fiona clicks this, she is greeted with a pop up to create and send a message to the author of the post.

The screenshot shows a search results page for 'CSC 648'. At the top, there is a navigation bar with 'GaterTrade' logo, 'Courses' dropdown, 'CSC 648' search input, and 'Buy', 'Make a Post', 'Login', 'Sign Up' buttons. Below the search bar, it says 'Showing 1 - 10 Results of 50'. The main area is titled 'Results' and contains ten items arranged in two rows of five. Each item card has a title ('Default Product 1' through 'Default Product 5'), a short description ('short Description'), and a 'Message Author' button at the bottom. The third item in the first row has a yellow background on its 'Message Author' button, indicating it was recently interacted with. Below the items is a 'Related Items' section and a page navigation bar with numbers 1-5 and a 'next' arrow.

Courses > CSC 648

Showing 1 - 10 Results of 50

Results

Default Product 1
short Description
Message Author

Default Product 2
short Description
Message Author

Default Product 3
short Description
Message Author

Default Product 4
short Description
Message Author

Default Product 5
short Description
Message Author

Default Product 1
short Description
Message Author

Default Product 2
short Description
Message Author

Default Product 3
short Description
Message Author

Default Product 4
short Description
Message Author

Default Product 5
short Description
Message Author

Related Items

1 2 3 4 5 >

About us

4b) Fiona is greeted with this pop up when she clicks to message the author of the content after searching by category and inputting her course name. Upon clicking ‘enter’ or “submit message” Fiona is greeted with the “registration | login” page.

The screenshot shows a web interface for a platform named "GaterTrade". At the top, there is a navigation bar with links for "Courses", "Buy", "Make a Post", "Login", and "Sign Up". The main heading is "CSC 648" with a magnifying glass icon. Below the heading, it says "Showing 1 - 10 Results of 50".

The results section is titled "Results" and displays five items, each with a "Message Author" button:

- Default Product 1 short Description Message Author
- Default Product 2 short Description Message Author
- Default Product 3 short Description Message Author
- Default Product 4 short Description Message Author
- Default Product 5 short Description Message Author

A modal dialog box is overlaid on the page, centered over the third item. The dialog has a title "Message Author 150 character max." and contains the text "Text Showing Interests in materials. This is a user message." Below the text area are two buttons: "Clear Message" and "Submit Message".

At the bottom of the page, there is a "Related Items" section and a pagination control with numbers 1 through 5 and a "Next" arrow. A small "About us" link is located at the very bottom.

5b) Fiona is an unregistered user and must input her student information in order to message the author of this post. Her SFSU email and a password are required to use the site in full. Fiona fills out the registration form to become a registered user.

The screenshot shows the GaterTrade website interface. At the top, there is a navigation bar with the logo "GaterTrade", a "Courses" dropdown menu, the course code "CSC 648", a search icon, and buttons for "Buy", "Make a Post", "Login", and "Sign Up". Below the navigation, the page title is "Courses > CSC 648" and it displays "Showing 1 - 10 Results of 50". The main content area features a large central modal window titled "Register | Login". Inside the modal, there are three input fields: "Email", "Password", and "Repeat Password", each with a placeholder text "Default Product 1 short Description". Below these fields is a "Create Account" button. At the bottom of the modal are two buttons: "Clear Message" and "Submit Message". Outside the modal, there are five small product cards arranged in a grid. Each card has a "Message Author" button. At the very bottom of the page, there is a "Related Items" section and a page navigation bar with links 1, 2, 3, 4, 5, and a right arrow.

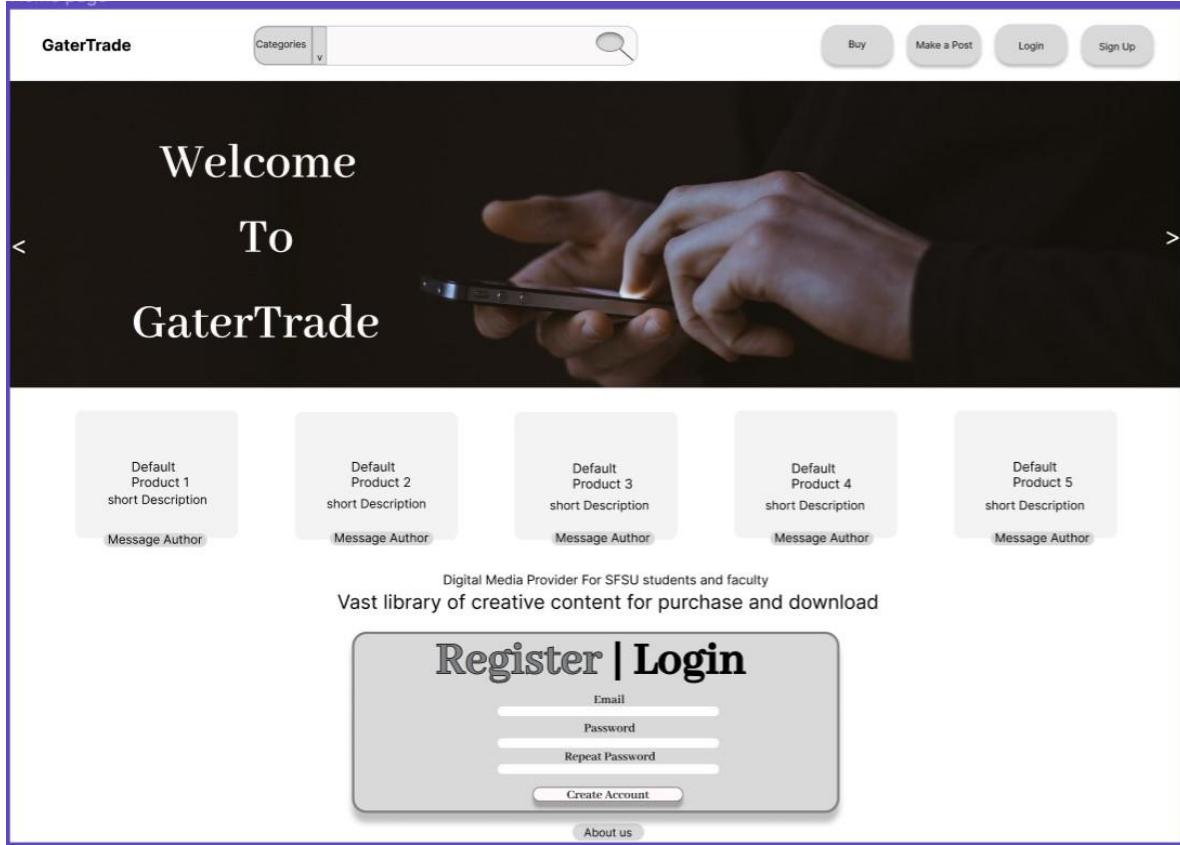
4.2 StoryBoard 2: Posting

color is used to depict user selection or text input. Not the color choice for the site. Purple is the user chosen figma background (poor photo crop)

Shadows are for visual effect and have no final place in the implementation of the webpage.

Use Case Description: Frank uses GaterTrade to make a post for his course materials.

- 1) Frank is greeted with the home page of GaterTrade and locates the “Make a Post” button.



2) Frank finds what he needs and clicks the “make a post button”.

The screenshot shows the GaterTrade website homepage. At the top, there is a navigation bar with links for 'Categories', a search bar containing 'eg: "CSC 648"', and buttons for 'Buy', 'Make a Post' (which is highlighted in yellow), 'Login', and 'Sign Up'. Below the navigation bar is a large banner with the text 'Welcome To GaterTrade' and a background image of a person's hands holding a smartphone. Underneath the banner, there are five small product cards, each labeled 'Default Product 1' through 'Default Product 5' with a short description and a 'Message Author' link. Below these cards is a promotional message: 'Digital Media Provider For SFSU students and faculty' and 'Vast library of creative content for purchase and download'. At the bottom center is a large 'Register | Login' button with fields for Email, Password, and Repeat Password, along with a 'Create Account' button and a 'About us' link.

GaterTrade

Categories v

eg: "CSC 648"

Buy Make a Post Login Sign Up

Welcome To GaterTrade

< >

Default Product 1
short Description

Default Product 2
short Description

Default Product 3
short Description

Default Product 4
short Description

Default Product 5
short Description

Message Author Message Author Message Author Message Author Message Author

Digital Media Provider For SFSU students and faculty
Vast library of creative content for purchase and download

Register | Login

Email

Password

Repeat Password

Create Account

About us

- 3) Frank locates the “Course Materials” option and selects this in order to upload his content.

GaterTrade

Courses v eg: "CSC 64S" 

Buy Make a Post Login Sign Up

Posting

Make a Post

Photos 
Click to add photos
Accepted types: JPEG, SVG, GIF, PNG, PDF

Audio 
Click to add audio
Accepted files: WAV, MP3, WMA, AIFF

Video 
Click to add video
Accepted types: MOV, MP4, WMV, MKV

E-Book 
Click to add E-book
Accepted types: PDF, EPUB, KINDLE FILE FORMAT

Course Material 
Click to add course material
Accepted types: JPEG, PDF, MP3, EPUB, WAV

About us

- 4) Frank fills out the form for his course material and uploads his file. He then clicks the option to add the post.



Posting

Make a Post: Course Material

Course Material



Accepted types: JPEG, PDF, MP3, EPUB, WAV

Author

Title

Category

Description

Price

Click to add Post

About us

5) Login or register pops up, he fills out the form and he selects login.

The screenshot shows a user interface for a website called "GaterTrade". At the top, there is a navigation bar with links for "Courses", a search bar containing "eg: "CSC 648"" and a magnifying glass icon, and buttons for "Buy", "Make a Post", "Login", and "Sign Up". Below the navigation bar, the word "Posting" is displayed. A main title "Make a Post: Course Material" is centered above a large rectangular input area. This input area has a header "Course Material" and contains a small icon of a person at a desk. Inside the input area, there is a file upload section with the text "lovelyday.pdf" and a "Upload" button, along with a note "Accepted types: JPEG, PDF, MP3, EPUB, WAV". Overlaid on the bottom right of this input area is a modal window titled "Register | Login". The modal has fields for "Email" (containing "fRank12@sfsu.edu"), "Password" (containing "*****"), "Repeat Password" (containing "*****"), and a "Login" button. Below the modal is a button labeled "Click to add Post". At the very bottom of the page, there is a link "About us".

- 6) The pop up disappears, the page is populated with the account option(top), the signup and login option disappears(top), and franks clicks the button to add the post.



Posting

Make a Post: Course Material

Course Material



lovelyday.pdf

Accepted types: JPEG, PDF, MP3, EPUB, WAV

Author

Author Name

Title

Title of content

Category

Category of Content

Description

Content Description

Price

Price in \$

Click to add Post

[About us](#)

7) Frank is greeted with a message from the GaterTrade admin team which thanks him for making a post, and states that it may take up to 24 hours to approve the post. Frank is also greeted with the option to view more posts.

The screenshot shows a user interface for a platform called GaterTrade. At the top, there is a navigation bar with links for 'Courses' (selected), a search bar containing 'eg: "CSC 64S"', and buttons for 'Buy', 'Make a Post', 'Login', and 'Sign Up'. Below the navigation, the word 'Posting' is displayed, followed by a large button labeled 'Review Post'. A central message box displays the text 'Post Submitted' and 'Thank you! Post is Awaiting Review!'. Below this, a note from the admin team reads: 'Hi there, thank you for submitting your post. Our admin are busy at work. It may take up to 24 hours for your post to be approved.' At the bottom of this message, it says '-Sincerely, GaterTrade Admin Team'. Below the message box, there is a section titled 'Browse Posts from other Creators' featuring three placeholder cards for products. Each card has the text 'Default Product 1 short Description' and 'Message Author'. At the bottom of this section are two buttons: 'View more posts' and 'Home'. A small 'About us' link is visible at the very bottom of the page.

GaterTrade

Courses v eg: "CSC 64S"

Buy Make a Post Login Sign Up

Posting

Review Post

Post Submitted

Thank you! Post is Awaiting Review!

Hi there, thank you for submitting your post.
Our admin are busy at work. It may take
up to 24 hours for your post to be approved.

-Sincerely, GaterTrade Admin Team

Browse Posts from other Creators

Default Product 1 short Description
Message Author

Default Product 2 short Description
Message Author

Default Product 3 short Description
Message Author

View more posts Home

About us

4.3 StoryBoard 3: Admin

Use case description: Liam the admin of GatorTrade logs into his admin account where he finds there are new pending posts waiting for approval. He goes through the new posts and checks to make sure they are in the correct category and appropriate. After he determines that the post is ready to go he will then approve it and a message will be sent to the seller.

- 1) The home page is displayed.



2) Click login to go into admin account

The screenshot shows the GaterTrade website homepage. At the top, there is a navigation bar with the brand name "GaterTrade" on the left, a "Categories" dropdown menu, a search bar with a magnifying glass icon, and four buttons: "Buy", "Make a Post", "Login" (which is highlighted in orange), and "Sign Up". Below the navigation is a large banner with the text "Welcome To GaterTrade" and a background image of hands holding a smartphone. Underneath the banner, there are five small product cards, each with a placeholder text: "Default Product 1 short Description" and "Message Author". Below these cards, the text "Digital Media Provider For SFSU students and faculty" and "Vast library of creative content for purchase and download" is displayed. A large "Register | Login" button is centered at the bottom, containing fields for "Email", "Password", and "Repeat Password", along with a "Create Account" button and a "About us" link.

GaterTrade

Categories

Welcome To GaterTrade

< >

Default Product 1 short Description

Default Product 2 short Description

Default Product 3 short Description

Default Product 4 short Description

Default Product 5 short Description

Message Author

Message Author

Message Author

Message Author

Message Author

Digital Media Provider For SFSU students and faculty

Vast library of creative content for purchase and download

Register | Login

Email

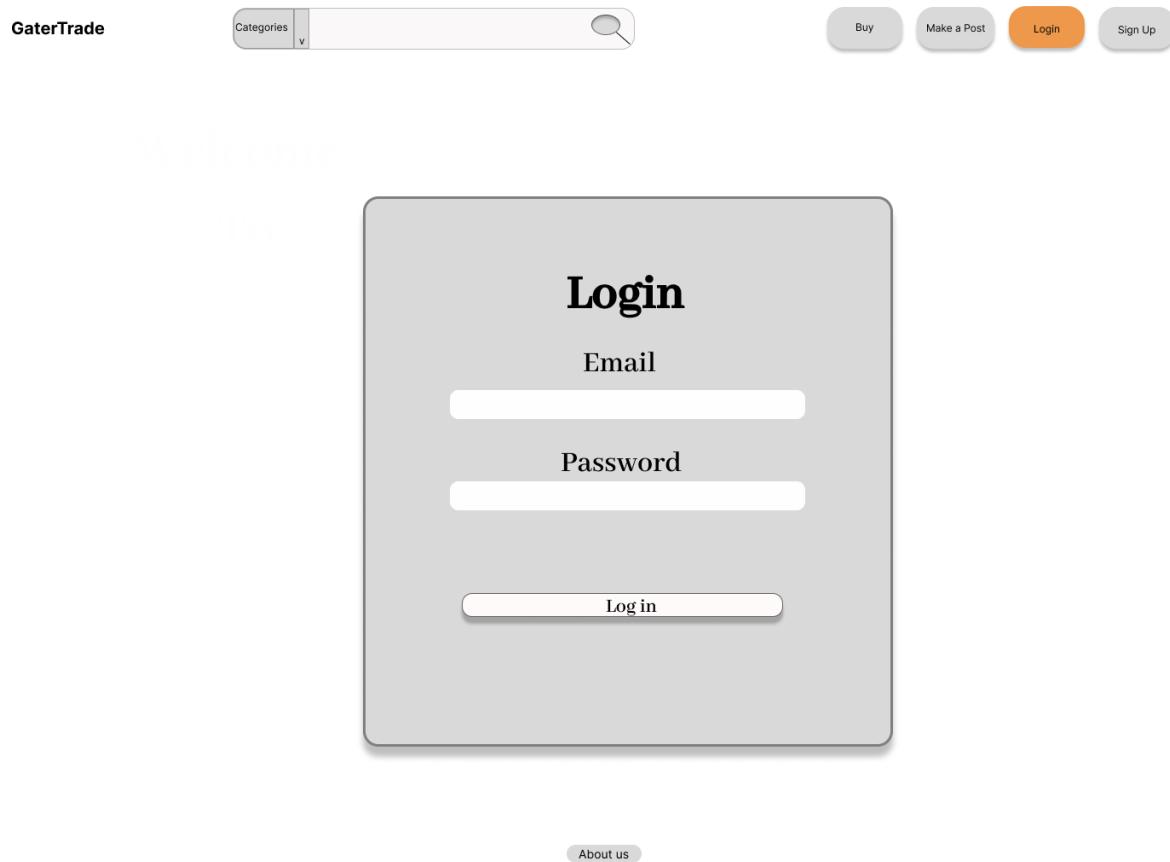
Password

Repeat Password

Create Account

About us

3) Admin Liam types in his credentials to get logged in.



- 4) Liam sees that there are pending posts to view.

The screenshot shows the CaterTrade software interface. At the top, there is a navigation bar with the 'CaterTrade' logo, a 'Courses' dropdown menu, a search bar with a magnifying glass icon, and three buttons: 'Make a Post', 'Hi, Liam', and 'Inbox'. Below the navigation bar, the text 'Posts > Pending' is displayed, followed by 'Results -- Showing 1 - 10 of 50'. The main area is titled 'Pending Postings' and contains two rows of five items each. Each item card has a red circular badge in the top right corner. The items are labeled 'Default Product 1' through 'Default Product 5', each with a short description and a 'Message Author' button. Below the cards, a 'Related Items' button is visible, followed by a page navigation bar with numbers 1, 2, 3, 4, 5, and a greater than symbol (>). At the bottom of the screen, there are 'Dashboard' and 'About us' buttons.

CaterTrade

Courses

Make a Post

Hi, Liam

Inbox

Posts > Pending

Results -- Showing 1 - 10 of 50

Pending Postings

Default Product 1
short Description
Message Author

Default Product 2
short Description
Message Author

Default Product 3
short Description
Message Author

Default Product 4
short Description
Message Author

Default Product 5
short Description
Message Author

Default Product 1
short Description
Message Author

Default Product 4
short Description
Message Author

Default Product 4
short Description
Message Author

Default Product 4
short Description
Message Author

Default Product 5
short Description
Message Author

Related Items

1 2 3 4 5 >

Dashboard

About us

- 5) Liam clicks on the first post and reviews to make sure everything is correct and appropriate

GaterTrade Courses v 

Make a Post Hi, Liam Inbox

Pending Posts > CSC 648

Results- Showing 1 of 1

George Hixler's eBook



Legacy of the Midnight Marauders

Description: This will be info on the book.
Short description.

PRICE: FREE

FileSize: 3.23 MB FileType: eBook Category: Course Material Price: 0.00

Message Author . Max 150 characters.

Deny Post Approve Post

Dashboard About us

- 6) Liam then approves the post and a message is sent to the seller.

GaterTrade

Courses

Pending Posts > CSC 648

Results- Showing 1 of 1

George Hixler's eBook

Legacy of the Midnight Marauders

Description: This will be info on the book.
Short description.

This post has been reviewed and approved.
A confirmation will be sent to the seller.

Thank you!

Exit

FileSize: 3.23 MB FileType: eBook Category: Course N

Message Author . Max 150 characters.

Approved

Dashboard

About us

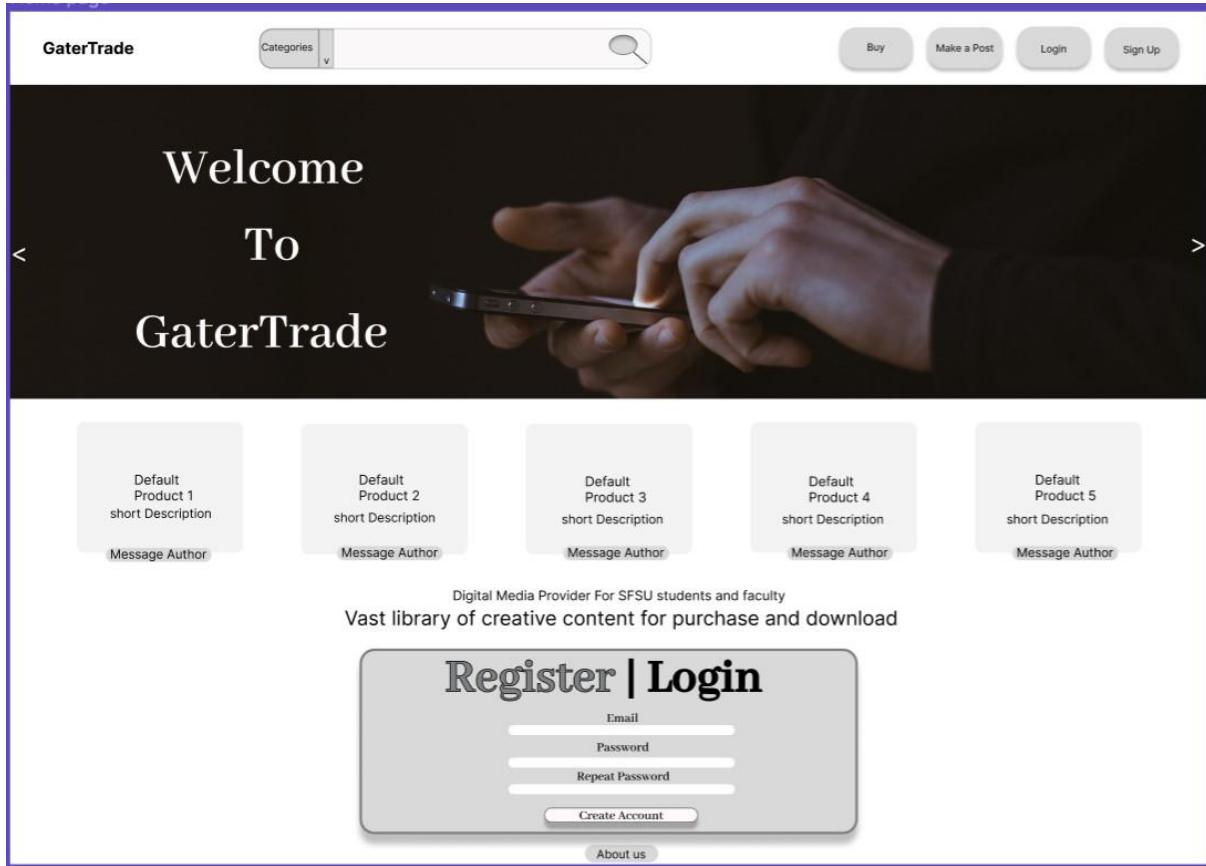
FileSize: 3.23 MB FileType: eBook Category: Course N

Message Author . Max 150 characters.

4.4 StoryBoard 4- Admin - Checking on Post

Use Case Description: Liam, finds a pending post that infringes upon copyrighted material and has the potential to lead to a potential lawsuit. He denies the post immediately. The user is then notified of the denial and reasoning.

- 1) Liam logs in with Admin credentials



2) Liam views the pending posts.

The screenshot shows the GaterTrade website interface. At the top, there is a navigation bar with the site name "GaterTrade" on the left, a search bar containing "CSC 648" with a magnifying glass icon, and three buttons on the right: "Buy", "Make a Post", and "Hi, Liam". Below the navigation bar is a large banner with the text "Welcome To GaterTrade" and a background image of a hand holding a smartphone. The main content area features five small product cards, each with a placeholder image, a title like "Default Product 1", a short description, and a "Message Author" button. Below these cards is a promotional message: "Digital Media Provider For SFSU students and faculty" and "Vast library of creative content for purchase and download". A "Welcome Back, Liam" message is displayed, along with a "Go to Dashboard" button.

GaterTrade

CSC 648

Buy Make a Post Hi, Liam

Welcome To GaterTrade

< >

Default Product 1
short Description
Message Author

Default Product 2
short Description
Message Author

Default Product 3
short Description
Message Author

Default Product 4
short Description
Message Author

Default Product 5
short Description
Message Author

Digital Media Provider For SFSU students and faculty
Vast library of creative content for purchase and download

Welcome Back, Liam

Go to Dashboard

- 3) Liam spots a post that poses a potential copyright problem.

GaterTrade Courses CSC 648  Make a Post Welcome, Liam Inbox

Pending Posts > CSC 648

Posts Pending

Post 1	Post 2
<p>Default Product 2</p> <p>short Description</p> <p>Message Author</p>	 <p>short Description</p> <p>Message Author</p>
<p>Default Product 2</p> <p>short Description</p> <p>Message Author</p>	<p>Default Product 3</p> <p>short Description</p> <p>Message Author</p>

[Dashboard](#)

[About us](#)

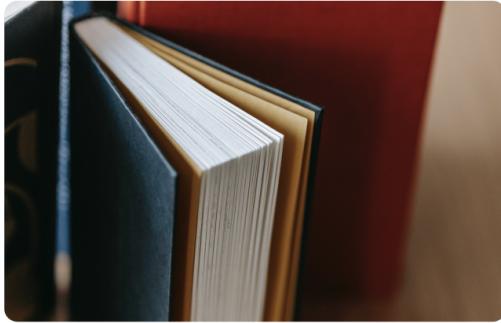
4) Liam denies publication of the post.

GaterTrade Courses CSC 648  Make a Post Hi, Liam Inbox

Pending Posts > CSC 648

Results- Showing 1 of 1

George Hixler's eBook



Legacy of the Midnight Marauders

Description: This will be info on the book.
Short description.

PRICE: FREE

FileSize: 3.23 MB FileType: eBook Category: Course Material Price: 0.00

(Optional) - Message for why this post was denied. Attached is the admin's email for appeal process which could take 5-7 business days to process.

Message Author . Max 150 characters.

Deny Post Approve Post

Dashboard About us

5) The user is notified whether the post was approved or denied.

The screenshot shows a user interface for a course titled "CSC 648". At the top, there are navigation links for "Courses", "Make a Post", "Hi, User", and "Inbox". Below the header, it says "Results -- Showing 1 - 10 of 50". The main area is titled "Postings" and displays five items, each representing a "Default Product" with a "short Description" and "Message Author". Item 3 is highlighted with a yellow border around its "Message Author" link. A modal window is open over the third item, containing a message about copyright denial:

After thorough review, the admin has denied your posting "Legacy of the Midnight Crusader" due to the reasoning of Copyrighted material.
Contact our admin at liam.admin@sfsu.edu for questions.

At the bottom of the modal is a "Close" button. Below the modal, there is a "Related Items" section with page navigation (1, 2, 3, 4, 5, >) and links for "Dashboard" and "About us".

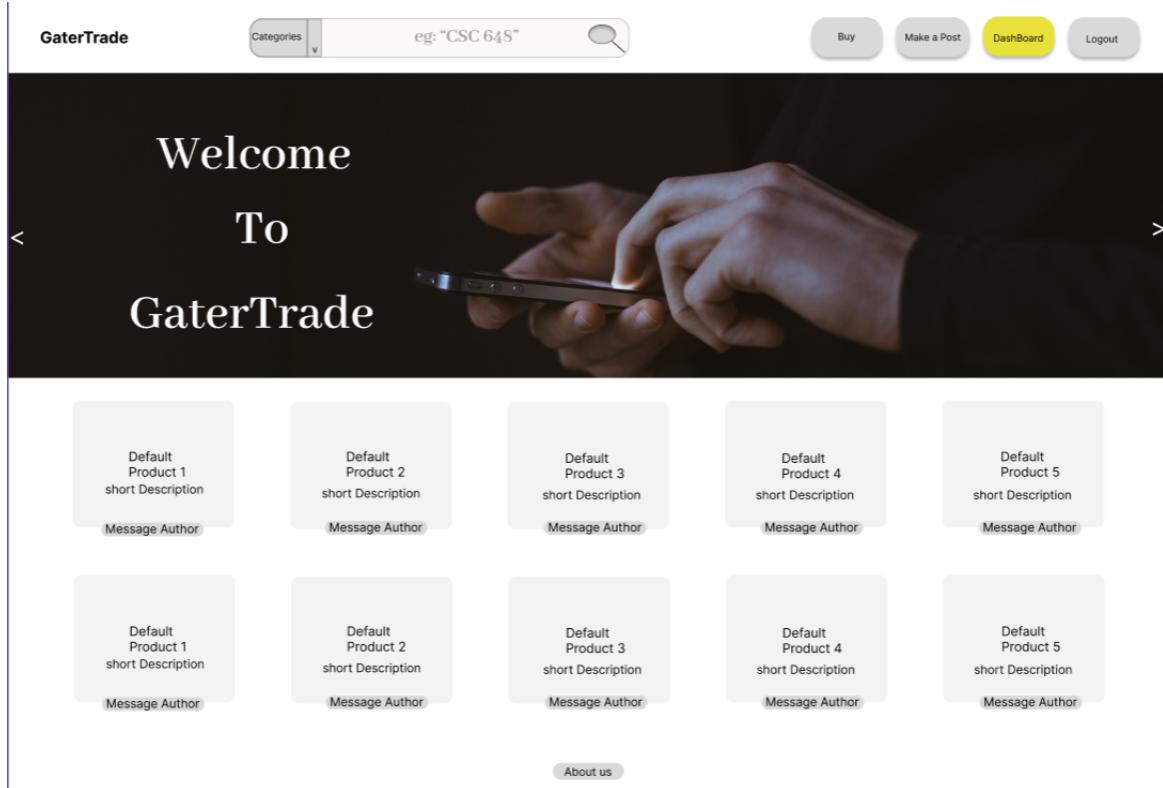
4.5 Storyboard 5: registered-user checking on post

color is used to depict user selection or text input. Not the color choice for the site. Purple is the user chosen figma background (poor photo crop)

Shadows are for visual effect and have no final place in the implementation of the webpage.

Use Case Description: Registered User Accessing Dashboard

- 1) Logged in view of Registered User. Registered user clicks on the dashboard to see their messages, posts, and pending posts.



2) When a Registered user clicks the dashboard, the page is populated with a dashboard view. The posts, messages, and pending posts can be selected from the side panel or top section. The description and data of the post will be displayed. Page will welcome reg. User based on account name.

The dashboard interface includes a header with 'GaterTrade' logo, 'Categories' dropdown, search bar ('eg: "CSC 648"'), and buttons for 'Buy', 'Make a Post', 'DashBoard', and 'Logout'.

User Profile: Shows a placeholder 'Image of User' and an 'Icon'.

Side Panel: Features a sidebar with 'Welcome, User' message, 'Image of User' placeholder, and three buttons: 'Messages' (Icon), 'Posts' (highlighted in yellow, Icon), and 'Pending Posts' (Icon).

Main Content Area: Titled '[Name of User]'s Dashboard'. It contains a navigation bar with tabs: '[Name of User]'s Post (highlighted in yellow), Messages, and Pending Posts.

[Name of User]'s Post Tab Content: Displays four product posts, each with a thumbnail labeled 'Default Product 5', a description, and statistics.

- Post 1:** Post Description: Short description about post; Post Category : Short description about post; Post Filetype and size : Short description about post; Post Statistics: Quantity of purchases / downloads
- Post 2:** Post Description: Short description about post; Post Category : Short description about post; Post Filetype and size : Short description about post; Post Statistics: Quantity of purchases / downloads
- Post 3:** Post Description: Short description about post; Post Category : Short description about post; Post Filetype and size : Short description about post; Post Statistics: Quantity of purchases / downloads
- Post 4:** Post Description: Short description about post; Post Category : Short description about post; Post Filetype and size : Short description about post; Post Statistics: Quantity of purchases / downloads

Pagination: Shows page numbers 1, 2, 3, 4, 5, and a 'next' arrow.

Footer: Includes an 'About us' link.

3) registered-user clicks on messages in the side panel to see old and new messages. Reg. Users have the option to reply or delete the messages.

The screenshot shows the GaterTrade platform's user dashboard. At the top, there is a navigation bar with the brand name "GaterTrade", a search bar containing the placeholder "eg: "CSC 64S"" with a magnifying glass icon, and several buttons for "Buy", "Make a Post", "Dashboard", and "Logout".

The main area is titled "[Name of User]'s Dashboard". On the left, a sidebar displays a user profile picture, the text "Welcome, User", and three menu items: "Messages" (highlighted in yellow), "Posts", and "Pending Posts".

The central content area is titled "[Name of User]'s Post" and features a tabbed navigation with "Messages" selected (highlighted in yellow). Below the tabs, there are two buttons: "New Messages" and "Old Messages".

The "Messages" section lists four received messages from interested users, each with a small profile picture, the message content ("Message content from interested user to the seller"), the "Received Date", and two buttons: "Reply" and "Delete".

At the bottom of the message list, there is a page navigation bar with numbers 1, 2, 3, 4, 5, and a right arrow, indicating multiple pages of messages.

- 4) registered-user selects the reply option in the new messages tab. The reply option is highlighted and populates the page with a message feed.

The screenshot shows the GaterTrade user interface. At the top, there is a navigation bar with links for 'Categories', a search bar containing 'eg: "CSC 64S"', and buttons for 'Buy', 'Make a Post', 'DashBoard', and 'Logout'. Below the navigation bar is a user profile icon and the text '[Name of User]’s Dashboard'.

The main content area features a navigation bar with three tabs: '[Name of User]’s Post', 'Messages' (which is highlighted in yellow), and 'Pending Posts'. Below this is a section titled 'New Messages | Old Messages'.

The 'Messages' section displays four message entries, each consisting of a user profile picture, the message content ('Message content from interested user to the seller'), the 'Received Date', and two buttons: 'Reply' and 'Delete'. The 'Reply' button for the third message is highlighted in yellow.

At the bottom of the message list, there are page navigation controls: '1 2 3 4 5 >'. At the very bottom of the page, there is a small 'About us' link.

- 5) The page is populated with “conversation with [user name of sender]” and the message feed is populated as well.

The screenshot shows the GaterTrade platform's user dashboard. At the top, there is a navigation bar with links for 'Categories', a search bar containing 'eg: "CSC 648"', and buttons for 'Buy', 'Make a Post', 'DashBoard', and 'Logout'. On the left, a sidebar displays a user profile picture, a welcome message 'Welcome, User', and four menu items: 'Messages' (selected), 'Posts', and 'Pending Posts'. The main content area is titled '[Name of User]'s Dashboard' and features a tabbed navigation bar with 'Messages' selected. Below this, a section titled 'Your Conversation with [User Name of Sender]' lists four messages from the user. Each message card includes a profile picture placeholder ('Image of User'), the message content ('Message content from interested user to the seller'), the 'Received Date' (e.g., 'Received Date'), and two buttons: 'Reply' and 'Delete'. The third message's 'Reply' button is highlighted with a yellow background. At the bottom of the message list, there are page navigation controls showing '1 2 3 4 5 >'. A small 'About us' link is located at the very bottom of the page.

- 6) The registered-user has the option to reply to received messages and the conversation is displayed chronologically. The image side flips depending on sender/receiver. Received/Sent date is placed on message feed.

The screenshot shows the GaterTrade platform's user interface. At the top, there is a navigation bar with links for 'Categories', 'Buy', 'Make a Post', 'Dashboard', and 'Logout'. Below the navigation bar is a search bar with placeholder text 'eg: "CSC 64S"' and a magnifying glass icon. On the left side, there is a sidebar with a user profile icon and the text 'Welcome, User'. The sidebar contains four items: 'Messages' (selected), 'Posts', and 'Pending Posts', each with an associated icon. The main content area is titled '[Name of User]'s Dashboard' and features a tabbed menu with 'Messages' selected. Below the tabs, it says 'Reply to [User] Conversation started on [Date]'. The 'Messages' tab displays a 'Message feed' with two messages. The first message is from an 'interested user to the seller' and includes a timestamp 'Sent [date/time]', an image of the user, and the message content. The second message is to the user and includes a timestamp 'Received [date/time]', an image of the user, and the message content. At the bottom of the message feed is a text input field 'Write your reply...' and a yellow 'Send' button. Navigation arrows at the bottom indicate page 1 of 5.

- 7) The registered-user presses `send` and a popup confirms the message was sent. This is a short pop up and does not remain on the page.

The screenshot shows the GaterTrade user dashboard. At the top, there is a navigation bar with 'GaterTrade' logo, 'Categories' dropdown, a search bar containing 'eg: "CSC 64S"', and buttons for 'Buy', 'Make a Post', 'DashBoard', and 'Logout'. On the left, a sidebar displays a user profile picture, the text 'Welcome, User', and links for 'Messages', 'Posts', and 'Pending Posts', each with an associated icon. The main content area is titled '[Name of User]’s Dashboard' and shows '[Name of User]’s Post' and 'Messages' tabs. The 'Messages' tab is active, displaying a message feed with two messages: one sent from the user to a seller and one received from a buyer. A blue button labeled 'Message Sent!' is visible above the messages. Below the feed, there is a text input field 'Write your reply...' and a yellow 'Send' button. At the bottom of the message feed, there are page navigation numbers (1, 2, 3, 4, 5, >). A small 'About us' link is located at the very bottom of the page.

5. High-level Architecture & Database

The database shall store all the information in relation to the registered-users, the posts and their categories, and the exchanged messages among registered-users.

The posts entities shall include an attribute that refers to the file system where the actual multimedia object will be kept. That attribute will be a file path in the form of a string.

5.1 Database Tables

1. users
2. categories
3. posts
4. messages

5.2 Users Table Columns

1. user_id: an auto incrementing integer, this shall be the primary key;
2. username: a unique string that identifies the user;
3. email: a unique string used to login;
4. password: a string used to login;
5. creation_time: timestamp generated when the user is created;
6. active: a binary value to signal if the user is active or not.

5.3 Categories Table Columns

1. category_id: an auto incrementing integer, this shall be the primary key;
2. category_name: a unique string that identifies the category.

5.4 Posts Table Columns

1. post_id: an auto incrementing integer, this shall be the primary key;
2. author_id: an integer that identifies the author of the post, foreign key to users table;
3. post_category: an integer that associates the post to the category, foreign key to categories table;
4. title: a string that briefly describes the multimedia object to be sold;
5. post_description: a string that describes the multimedia object to be sold;
6. post_path: a string that identifies the path to the file system that contains the multimedia object;
7. post_thumbnail: a string to the thumbnail file that refers to the multimedia object;
8. price: a decimal value that represents the price of the multimedia object;
9. post_creation_time: timestamp generated when the user is created;
10. approved: a binary value to signal if the post has been approved or not by the admin;
11. active: a binary value to signal if the post is active or not.

5.5 Message Table Columns

1. message_id: an auto-incrementing integer that uniquely identifies the message, this shall be the primary key;
2. post_id: an integer that uniquely identifies the post that the message refers to, this shall be the a foreign key to the posts table;
3. author_id: an integer that identifies the message's author, this shall be a foreign key to the users table;
4. receiver_id: an integer that identifies the message's receiver, this shall be a foreign key to the users table;
5. message_text: a string that represents the content of the message;
6. creation_time: timestamp generated when the user is created;

5.6 Media Format Requirements

We have decided to accept the following format data:

1. video: .mp4, .mov, .avi
2. audio: .mp3, .wav, .aiff, .flac
3. image: .jpeg, .png, .gif, .heic
4. slides: .pptx
5. ebook: .epub
6. other documents: .pdf

If the data format is invalid it shall not be accepted and a pop-up message shows up to recommend the user to convert the data into a valid format.

5.7 Search

The search bar shall take an input in the form of a string and it shall be concatenated with a percent sign '%' and then used as an input in the SQL command. The SQL command will use the format of `SELECT posts.id FROM posts WHERE posts_description LIKE '%input_string%' OR posts_title LIKE '%input_string%' OR author_id LIKE '%input_string%';`

This format is designed to maximize the matching result with a given input string. There could be a match in the description, in the title or in the author of the post. In case the query will return no matching result, a page should inform the unregistered-users or registered-users that there was zero matching result but it shall show the latest *n* posts to offer some possible alternatives to be considered by the users.

5.8 Software Framework

The SW framework that we are going to use is the same indicated in the submission for Mileston_0. No changes occurred at the moment.

We are not planning to implement any API in addition to the ones coming with the various modules that we have already installed. Those modules include : Bcrypt, Cors, Debug, Express-flash, Express-handlebars, Express-mysql-session, express-session, http-errors, Morgan, Multer, Nodemon, Sharp.

At this stage we are not planning to include any function related to rating, ranking, or automatic prioritizing of items.

6. Key Risks

6.1 Skills

- 1. Back-end**
 - a. Risks:**
 - i. potential lack of proficiency with structuring databases and relationships between entities.
 - ii. difficulties integrating back-end with front-end with controller.
 - b. Mitigation:**
 - i. We will clearly define data entities and structure the relationships between them.
 - ii. Along with data entities and their relationships, we will map necessary functions and relationships needed to interface between front and back-end.
- 2. Front-end:**
 - a. Risks:**
 - i. potential lack of proficiency with APIs and front-end software stack.
 - ii. difficulty implementing front-end structure in a logical and consistent fashion.
 - b. Mitigation:**
 - i. The team will share educational resources necessary to complete assigned tasks.
 - ii. The team will plan and discuss logical structures before implementation. Code review will be performed to ensure pull requests have followed best practices.

6.2 Schedule

- 1. Risks:**
 - a. Inefficient team organization can contribute to delays.
 - b. Lack of clear communication with regard to unfinished tasks could result in missed deadlines. Unexpected delays due to team member absences from illness, such as COVID-19, or other reasons will potentially cause delays.
- 2. Mitigation:**
 - a. The team will adhere to assigned positions and responsibilities.
 - b. Team members will take ownership of tasks and be required to communicate with the rest of the team on progress and difficulties, including technical roadblocks or absences.

6.3 Technical

1. Risks:
 - a. Codebase safety with regards to GitHub use and deployment errors.
 - b. Implementation and maintenance difficulties with software stack, especially with MySQL and AWS.
2. Mitigation:
 - a. GitHub repository uses permissions to ensure that GitHub and/or other leads must approve branch merges after performing code reviews.
 - b. We will study how to use MySQL workbench and review documentation to figure out how to properly structure, deploy, and maintain the site.

6.4 Teamwork

1. *Risks*
 - a. Team members have conflicting schedules and are not able to meet synchronously with all or a majority of the team available.
 - b. Team members may have difficulty taking on their roles or specific tasks, communicating their difficulties, and collaborating to succeed.
2. Mitigation
 - a. We will use WhenToMeet and other tools to facilitate scheduling. Team leads or members working on front-end, back-end, and other related tasks can meet synchronously in smaller groups. Small group meetings can then be summarized and reported to the rest of the team asynchronously using Discord, Google Docs, and Trello.
 - b. Communication and check-ins between team leadership and other team members will be maintained as a near-daily routine. Team members will be required to share progress and encouraged to discuss roadblocks on tasks so the team may collaborate on solutions. Team members will take ownership of specific tasks to ensure accountability.

6.5 Legal/Content

1. Risks
 - a. Users may attempt to post content which breaks copyright or content rules.
 - b. Unlicensed material could be used by team members in an attempt to complete tasks.
2. Mitigation
 - a. Admins shall be required to approve or deny posts based on website terms of use. Repeat offenders may be banned.
 - b. During code reviews, team members will be required to include documentation and give attribution or citations for any outside resources used.

7. Project Management

Team 7 has communicated asynchronously primarily via a private Discord server. A text message group has been created for important or urgent communications. When2Meet.com has been utilized in order to provide options for synchronous team meeting scheduling. A Trello board, using a Kanban template, has been adopted for project management. Tasks are organized based on status. Tasks are given ownership to team members who are then responsible for keeping task status up-to-date. Tasks are labeled according to Milestone and nature of work (e.g., Front-end or Back-end). Trello allows tracking of task completion so other members can review and work on dependent or related features. The team lead has recorded a short overview/tutorial of the Trello board for the team to have as reference (<https://www.youtube.com/watch?v=E1TRgWqOzJ0>). Required in-class team meetings are used in order to discuss milestone requirements, tasks, progress, and deadlines. Team members are given the opportunity to volunteer for tasks or are otherwise assigned tasks by team leadership. Deadlines are discussed and assigned verbally during meetings and/or given by team leadership via Discord and Trello. A shared team Google Drive folder is used to provide access to meeting recordings, project and meeting notes, and other shared resources.

Milestone 3: Appendix II
Prof. Petkovic Meeting Review

SW Engineering CSC648/848 Fall 2022

2022-11-22

Team 7

Name	Role	Email
Gineton Alencar	Team Lead	galencar@mail.sfsu.edu
Eddie Fu	Front-end Lead	efu1@mail.sfsu.edu
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Rai'd S. Muhammad	Software Engineer	rmuhammad@mail.sfsu.edu
Kobe D. Shelby	Software Engineer	kshelby@mail.sfsu.edu

Team 7

Meeting date: 2022-11-16

Summary of feedback:

- UI
 - Landing Page:
 - Clarifying “tagline.”
 - Describe featured (new) posts
 - Navbar:
 - Buttons:
 - Remove:
 - Home button (logo is sufficient)
 - Contact Us (move to bottom of page)
 - Add/Modify:
 - Post Media button
 - Sign Up/Login should be consolidated a little (maybe group together)
 - Search/Categories:
 - Make the search bar more prominent/higher in hierarchy.
 - Keep styling consistent when selecting categories (see below).
 - Styling:
 - Make navbar styling consistent when selecting different categories. I.e., currently resizes search bar, causing other navbar buttons to shift erratically. Perhaps make the search fixed-width?
 - Make navbar more distinct from rest of page
 - Search/Browse Posts:
 - Make cards more distinct from background
 - Rename “Post Details” button to something more clear (e.g., “More Info” and/or “Contact Seller”)
 - Make error messages (“No input was given for your search, but here...”) more clear/simple (e.g., “Found: 2 posts”, “Here are some videos which might interest you:”).
 - Fix result text with single result: “1 results found.”
 - View Post Details/Message Post-Owner page
 - Have it open in a new tab (or some other way so user does not lose place in search results)
 - Title “Message Owner” header is unclear, maybe just replace it with the title of media/post.

- If an item is free, maybe add a “Download” button in post details. (If a user is not signed in, prompt them to log in or register after they click on download).
 - Make the “Message Owner” form more obvious/visible to the user in “Desktop” (wide browser) view. Scale things down.
 - Have one column for “Message owner” form.
- Register/Sign Up page
 - Make page/form title consistent
 - Add “all fields mandatory”
- User Dashboard
 - Make earnings tracking P2
 - Change drop-downs for “Recent Messages,” “Created Post,” “Pending Posts” into different tabs with sortable items.
 - Include action button(s) to items in the dashboard.
- Create a Post
 - Remove large images/icons surrounding the form. Unclear what they are. They are not interactable.
 - Make page viewable in “one page” (i.e., without scrolling).
 - Remove “I agree to terms of service” during post creation, since the user will have already agreed to this during registration.
 - Add a notice “Post may take up to 24 hours to be approved.”
 - Add a “Cancel” button.
 - Specify “All fields mandatory.”
 - Prof. prefers file input at the end.
 - Remove “Author,” have it just be the user’s account information.
 - Have fields about as wide as text input.
- Forgot Password
 - Project will not implement emailing, so only implement a dummy link.
- Code & Architecture
 - Add header comments to code files (title, authors/copyright, brief description of code). Note:
 - Add in-line comments where appropriate.
- GitHub
 - Keep commits descriptive (so they can be easily referred to) and consistent.
- Database
 - Encryption being implemented.
- Teamwork & Risk Management
 - Trello looks ok for project management.
 - Try to ameliorate difficulty with scheduling team meetings by having smaller meetings (i.e., with fewer attendees).

- Get all team members on the same page with functioning and compatible development environments. Main difficulty had been getting node js working with a local copy of MySQL (Workbench) database.
- Architecture Review
 - MVC Pattern:
 - OK.
 - Coding Style:
 - OK. Style is mostly established and the team is working on improving consistency.
 - Minimal Agreed Documentation:
 - Header
 - file name and/or title
 - purpose of file
 - author(s)
 - team
 - course/professors/school
 - any special implementation details
 - Inline comments
 - Add helpful comments when code is not self-explanatory or requires special attention to a particular implementation detail.
- Priority 1 Features:
 - Login
 - Registration
 - Homepage
 - Search Results
 - Post Details
 - Message Post Owner
 - Post Media
 - Dashboard
- Comments/Issues:
 - Generally make the UI more compact, so less scrolling is required.
 - Assign tasks maybe in groups of two that can work independently.
 - Asynchronous “SCRUM” meetings with updates on tasks (What was accomplished? What is next? What, if any issues are there?).

Milestone 4

SW Engineering CSC648/848 Fall 2022

GaterTrader

2022-12-09

Team 7

Name	Role	Email
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Yoshimasa Iwano	GitHub Master, Engineer	yiwano@mail.sfsu.edu
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Kobe D. Shelby	Software Engineer	kshelby@mail.sfsu.edu

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3.4 Browser: Google Chrome version: 108.0.5359.96

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1. Product Summary

1.1 Name: GaterTrader

1.2 Product Description: GaterTrader is a web platform exclusive for San Francisco State University (SFSU) students, staff, and faculty to sell and share content that may be useful to all. It was built by SFSU students for the SFSU community. Students and faculty will immediately see a benefit from the school-friendly categorization of media by course and field of study. Professors will be able to publish their syllabi, notes, and handouts in one place. Students, for example, will have the opportunity to be rewarded for their creativity by facilitating buying and selling of media.

1.3 URL: <http://52.9.59.15:1234/>

1.4 Priority 1 Functions

1. unregistered-users

- a. shall be able to browse posts of items for sale.
- b. shall be able to register if they meet registration requirements.
- a. shall be able to login if they have previously created a registered-user account.
- b. shall be required to register or login in order to access media from posted items in full resolution.
- c. shall be required to register or login in order to contact another registered-user who has posted an item.

2. registered-users

- a. shall have all the requirements of unregistered-users.
- b. shall be able to post digital media for sale or for free.
- c. shall be able to receive messages from other registered-users interested in posts.
- d. shall be able to reply to messages from other registered-users who have messaged them regarding .

3. admin

- a. admin shall have all requirements of unregistered-users and registered-users.
- b. shall be required to approve each media item before it can be publicly accessed in order to verify that it conforms to GaterTrader terms of use and content policies.
- c. shall be required to delete posts that violate the terms of use and content policy.
- d. shall be required to ban registered-users who violate the terms of use or content policies of GaterTrader.

2. Usability Test Plan

2.1 Test objectives:

In this test plan the uploading and posting of content will be tested. The purpose of this project is to allow SFSU sellers and buyers the opportunity to publish or purchase content within SFSU. Furthermore, uploading and posting will be the largest functionality that will allow both users access to what they need.

2.2 Test background and setup:

The setup of GaterTrader makes the usability for the seller painless. When first getting access to the site above will be the dashboard which clearly gives the option of logging in or making a post which are relevant for the seller in this case scenario. For GaterTrader in order to make a post you do need to have a registered account. Once there is an account and a post is ready to be made, the seller must fill out required cells and submit for review. Once reviewed and approved it will be posted on the website and ready for viewing.

Starting point once an account is created is filling out the content form. The required fields are the name of the content, the price, the subject and description. The name allows buyers to look up via name if they know it. The subject is another way to look up what content there is under a specific subject. Lastly, the description which allows the buyer to write down additional information about the content that they are selling.

The intended users for this specific function would be for the sellers. Uploading and posting gives sellers the opportunity to upload the content of their choice to GaterTrader. Once the post has been approved and uploaded, it will then allow the consumer user to look up, view, and purchase the content of their choice.

2.3 Usability Task description:

Tasks needed in order to make a post will be to:

Create an account on GaterTrader, once the account has been created and you are now logged in, create a post. Once a post has been created, it will be submitted to the administrator so they can review and approve it for posting. Once approved your content will be posted to GaterTrader and ready for users to potentially purchase the product.

2.4 Evaluation of Effectiveness:

The effectiveness that I'm evaluating on this functionality is that users are able to navigate the homepage as this is what sets the tone for the entire website. On the homepage making sure everything is visible (the users don't have to look around for anything) and easy to use.

Users should be able to create accounts with ease. Once that step is done, the process of creating a post should be as simple as possible. The effectiveness of the make a post form is the required field asking of too much or just enough from the user. Overall, the whole process of creating a post should be a smooth and timeless process.

2.5 Evaluation of Efficiency:

Some key points of efficiency would be the whole process of making an account and creating a post. Are there a lot of questions that are required for the user to answer? The number of buttons that need to be pushed in order to get those tasks done. Also, once a post has been submitted for review in what time frame it will take to get approved. Is there somewhere on the make a post page that shows the approximate wait time for approval?

2.6 Evaluation of user satisfaction:

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Navigating through GaterTrader was self explanatory.					
It was easy to create a post on GaterTrader.					
The overall process of creating an account was intuitive.					

Comments:

3. QA Test Plan

3.1 Test objectives

Test search functionality with queries that match and do not match items currently in the database. Will verify that results output matching queries when appropriate or no results (only suggestions) when appropriate.

3.2 Hardware/Software

- Laptop PC.
- Windows 10.
- URL: <http://52.9.59.15:1234/>

3.3 Browser: Mozilla Firefox v. 107.0.1

#	Test Title	Description	Test Input	Expected Output	Results
1	Single result	Perform a search with a query which has one match in the database.	“waterfall”	Waterfall	PASS
2	No result	Perform a search with a query which has no matches in the database.	“keyword”	“No results found”	PASS
3	Multiple results	Perform a search with a query which has four matches in the database.	“title”	test-Title1, test-Title2, test-Title3, test-Title4	PASS

3.4 Browser: Google Chrome v. 108.0.5359.96

#	Test Title	Description	Test Input	Expected Output	Results
1	Single result	Perform a search with a query which has one match in the database.	“waterfall”	Waterfall	PASS
2	No result	Perform a search with a query which has no matches in the database.	“keyword”	“No results found”	PASS
3	Multiple results	Perform a search with a query which has four	“title”	test-Title1, test-Title2, test-Title3, test-Title4	PASS

		matches in the database.			
--	--	--------------------------	--	--	--

4. Code Review

This is a screen shot capture of commented reviewed code. The coder is Rai'd S. Muhammad and the reviewer is Yoshimasa Iwano.

The screenshot shows a code review interface with two files:

- postsMiddleware.js**: A file with 11 changes. The first change (line 1) is a header: `/*`.
- validation.js**: A file with 83 changes. The first few changes are:
 - Line 1: `/*`
 - Line 2: `Filename: validation.js`
 - Line 3: `Purpose: handles user signup and Post validation`
 - Line 4: `Author: Duccio Rocca, Yoshimasa Iwano, Rai'd Muhammad Team: 07`
 - Line 5: `Course: CSC648 SFSU`
 - Line 6: `*/`

Comments from **YoshimasaIwano** (Pending):

- On the header: "It is a good header."
- On the variable declaration: "This variable can be const instead of let because it cannot be changed and avoid unexpected changes."

```
File filter ▾ × Clear filters Conversations ▾ ⚙ 1 / 61 files viewed ⓘ Finish your review 3 ▾
> ⌂ 11 application/middleware/postsMiddleware.js
Viewed ...
application/middleware/validation.js
Viewed ...
...
@@ -1,21 +1,55 @@
1 + /*
YoshimasaIwano Pending
It is a good header.

Reply...
2 +     Filename: validation.js
3 +
4 +     Purpose: handles user signup and Post validation
5 +
6 +     Author: Duccio Rocca, Yoshimasa Iwano, Rai'd Muhammad Team: 07
7 +
8 +     Course: CSC648 SFSU
9 +
10 +    */
11 +
12 +
13 const checkUsername = (username) => {
14
15     let usernameChecker = /^[^0-9]{2,}$/;
YoshimasaIwano Pending
This variable can be const instead of let because it cannot be changed and avoid unexpected changes.

Reply...
4 16     return usernameChecker.test(username);
5 17 };
6 18
19 + const checkEmail = (email) => {
20 +     let emailChecker =
21 +         /^[a-z0-9]+@[mail]+\sfsu\.edu|([a-z0-9]+@[sfsu]+\sedu)\//;
22 +     console.log(emailChecker.test(email.value));
23 +     return emailChecker.test(email);
24 +
25 +
```

```
7   26  const checkPassword = (password) => {
8   27    let passwordChecker = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)[A-Za-z\d]{6,}$/;
9   28    return passwordChecker.test(password);
10  29  };
11  30
31 + const emailValidation = (req, res, next) => {
```

 Yoshimasalwano Pending



The order of emailvalidation and usernamevalidation can be switched for better readability.

 Reply...

```
32 +   let email = req.body.email;
33 +   if (!checkEmail(email)) {
34 +
35 +     req.flash('error', 'Invalid email; Minimum length 6 and it must end with @mail.sfsu.edu');
36 +     req.session.save(err => {
37 +
38 +       res.redirect("/signup");
39 +     });
40 +   } else {
41 +     next();
42 +   }
43 + }
44 +
12 45  const usernameValidation = (req, res, next) => {
13 46    let username = req.body.username;
14 47    if (!checkUsername(username)) {
15 48
16 49      req.flash('error', 'Invalid username; Minimum length 2 and it must start with an alphabet');
17 50      req.session.save(err => {
18 -
51 +       if(err) throw err
52 +       console.log("there was an error with the login")
19 53         res.redirect("/signup");
20 54       });
21 55     } else {
22 56       next();
23 57     }
24 58   };
25 59
26 60  const passwordValidation = (req, res, next) => {
27 61
28 62    let password = req.body.password;
29 63    let confirmPass = req.body.matchPassword;
30 64
31 65    if (!checkPassword(password)) {
32 66
33 67      req.flash('error', 'Invalid password');
34 68      req.session.save(err => {
35 69
36 70        res.redirect("/signup");
37 71      });
38 72    } else {
39 73      if (password === confirmPass) {
40 74        next();
41 75      } else {
42 76        req.flash('error', "Passwords don't match");
43 77        req.session.save(err => {
```

```
44    78
45    79             res.redirect("/signup");
46    80         });
47    81     }
48    82
49    83   }
50    84 };
51    85
52    86 + const postValidation = (req, res, next) => {
53    87 +
54    88 +     let title = req.body.PostTitle;
55    89 +     let description = req.body.PostDescription;
56    90 +     let fk_userId = req.session.userId;
57    91 +     let fileUploaded = req.file.path;
58    92 +
59    93 +     if (fileUploaded == null) {
60    94 +         req.flash('error', 'Invalid File');
61    95 +         req.session.save(err => {
62    96 +
63    97 +             res.redirect("/make-post");
64    98 +         });
65    99 +     } else {
66    100 +
67    101 +
68    102 +         if (title == null) {
69    103 +             req.flash('error', 'Invalid Title');
70    104 +             req.session.save(err => {
71    105 +
72    106 +                 res.redirect("/make-post");
73    107 +             });
74    108 +         } else {
75    109 +             if (description == null) {
76    110 +                 req.flash('error', 'Invalid Description');
77    111 +                 req.session.save(err => {
78    112 +
79    113 +                     res.redirect("/make-post");
80    114 +                 });
81    115 +             } else {
82    116 +                 if (fk_userId == null) {
83    117 +                     req.flash('error', 'Invalid User');
84    118 +                     req.session.save(err => {
85    119 +
86    120 +                         res.redirect("/make-post");
87    121 +                     });
88    122 +                 } else {
89    123 +                     next();
90    124 +                 }
91    125 +             }
92    126 +
93    127 +         }
94    128 +     }
95    129 + };
96    130 +
97
98 52    131 - module.exports = {usernameValidation, passwordValidation};
99 53    132 -                                     ⊖
100 132 + module.exports = {usernameValidation, passwordValidation, postValidation, emailValidation};
101 +                                     ⊖
```

5. Security Best Practices Self-check

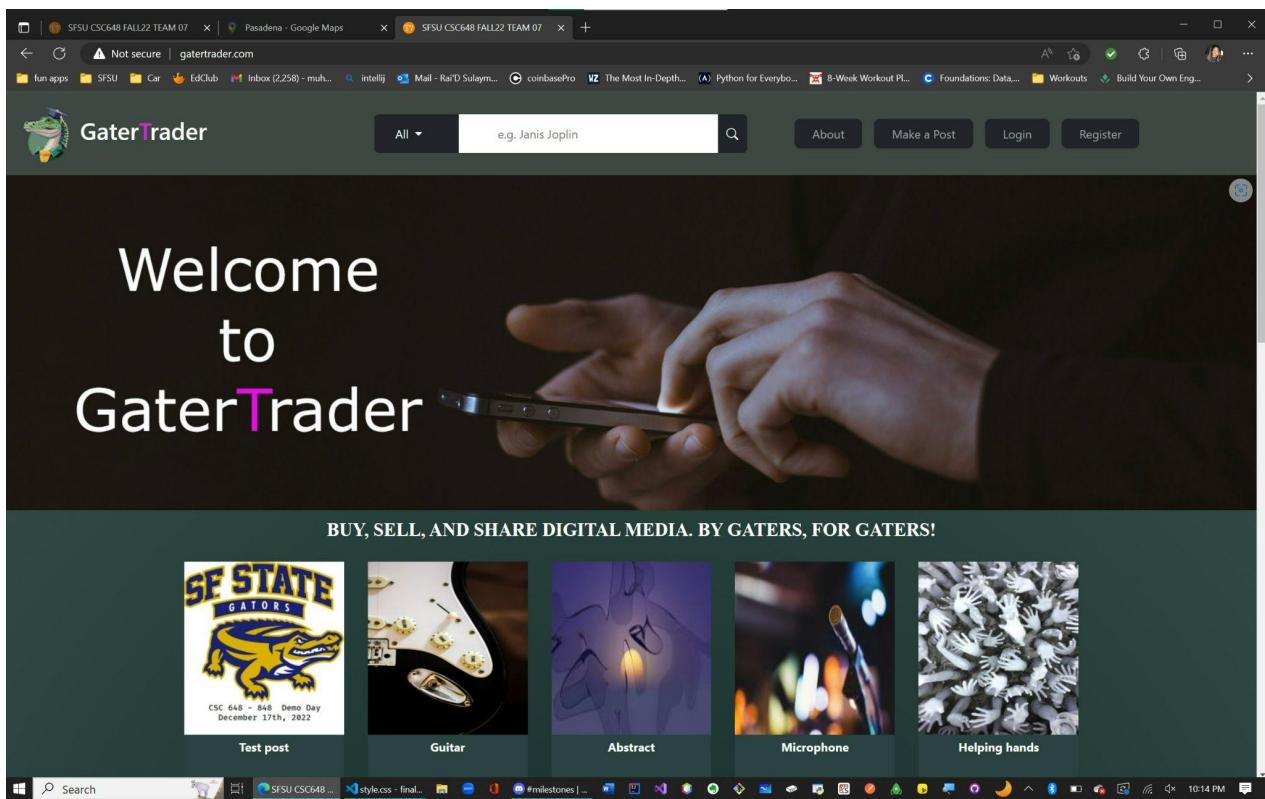
Asset to be protected	Types of possible/expected attacks	Your strategy to mitigate/protect the asset
User's images	Malware and Phishing	Back-up and encrypt the data
User's email	Username enumeration	Making identical server responses (returning identical responses)
User's passwords	SQL injection and XSS	Uses or prepared statements and allowing-list input validation and encoding. Also providing secure input handling and have preparation if input handling fails
User's content uploaded	MiTM attack	Having secure connections, multi-factor authentication, and Endpoint security
Server's Database	Database DoS, packet sniffing, query string manipulation and SQL injection	Patching to prevent sticking to one authentication method. Set minimum amount of roles and using SSL and TLS encryption to prevent packet sniffing. Also creating a dedicated firewall

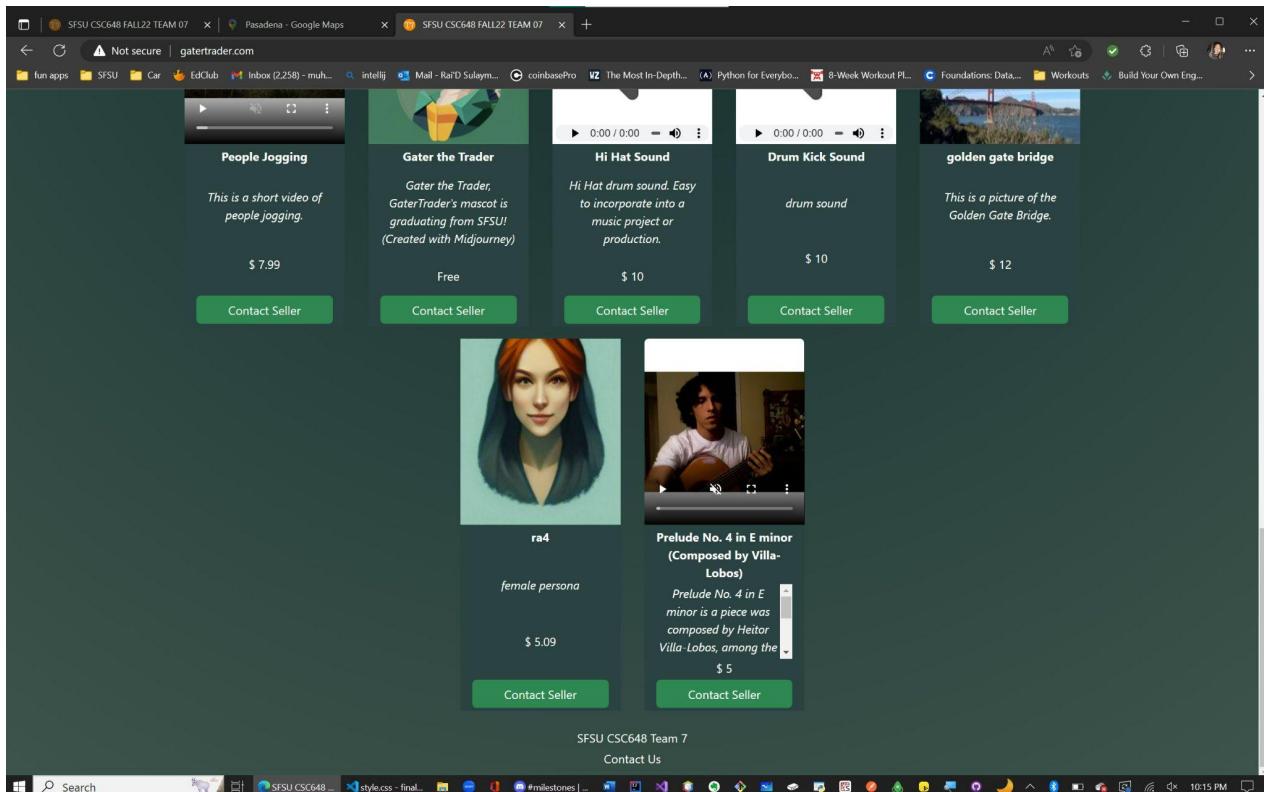
6. Non-functional Specs Self-check

#	Non-functional Requirement	Status
1	Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0.	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.	ON TRACK
4	Data shall be stored in the database on the team's deployment server.	DONE
5	No more than 50 concurrent users shall be accessing the application at any time.	ON TRACK
6	Privacy of users shall be protected.	ON TRACK
7	The language used shall be English (no localization needed).	DONE
8	Application shall be very easy to use and intuitive.	ON TRACK
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.	ON TRACK
12	No email clients shall be allowed. Interested users can only message to sellers via in-site messaging. One round of messaging (from user to seller) is enough for this application.	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.	ON TRACK
15	Media formats shall be standard as used in the market today.	ON TRACK
16	Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development.	DONE
17	The application UI (WWW and mobile) shall prominently display the following exact text on all pages "SFSU Software Engineering Project CSC 648-848, Fall 2022. For Demonstration Only" at the top of the WWW page nav bar. (Important so as to not confuse this with a real application).	DONE

3. Product Screenshots

3.1 Home





3.2 About Us

A screenshot of a web browser displaying the 'About Our Team' page. The page features a dark background with a large, semi-transparent dark overlay. In the center, the text "About Our Team" is displayed in a large, white, sans-serif font. Below this, there is a smaller section with text and a photo.

Software Engineering class SFSU
Fall, 2022
Section 03
Team 07

"Talent wins games,
but teamwork and intelligence
win championships."
-Michael Jordan

A photograph showing five team members from behind, looking out over a city skyline at sunset. They are standing on a balcony or terrace. The image is partially obscured by the dark overlay of the page.

3.2.1 Gineton Alencar

Gineton Alencar



Team Lead

I am a senior undergraduate computer science major at San Francisco State University expecting to graduate Fall 2022 with a Bachelor of Science in Computer Science and a Certificate in Data Science and Machine Learning for Biotechnology.

I have worked on projects and coursework that have given me experience in machine learning, web development, embedded software, and virtual and augmented reality. I have years of experience instructing and supporting students with disabilities as a paraeducator. I am fluent in English and Portuguese and some proficiency in Italian and Spanish.

[GitHub](#)

[Back to Home](#)

3.2.2 Eddie Fu

Eddie Fu



Frontend Lead

I am a 4th year Undergraduate senior student at SFSU. My favorite programming language are JavaScript and Java. My favorite sports are basketball and baseball.

I am also a Certified Personal Trainer. I am originally from Taiwan and am fluent in both Mandarin and English.

[GitHub](#)

[Back to Home](#)

3.2.3 Yoshimasa Iwano

The screenshot shows a Microsoft Edge browser window with the address bar set to "Not secure | gatertrader.com/about-yoshimasa-iwano". The page title is "Yoshimasa Iwano". A profile picture of a young man with short brown hair, wearing a dark jacket over a white shirt, is displayed above his name. Below the name, the text "Github Master" is underlined. A bio follows: "I am a Graduate student at SFSU. In my undergraduate, I was doing research on image recognition at University of Tsukuba in Japan." At the bottom of the page are "GitHub" and "Back to Home" links.

3.2.4 Duccio Rocca

The screenshot shows a Microsoft Edge browser window with the address bar set to "Not secure | gatertrader.com/about-duccio". The page title is "Duccio Rocca". A profile picture of a man with long dark hair and a beard, wearing a dark hoodie, is displayed above his name. Below the name, the text "Backend Lead" is underlined. A bio follows: "I am a Graduate student at SFSU. My favorite programming language are Java and Javascript. I have also programmed in C, C++, html, css, Python, and SQL." Another bio states: "I have an experience as a Teaching Assistant at City College of San Francisco. My background is in Legal studies. I am originally from Italy." At the bottom of the page are "GitHub" and "Back to Home" links.

3.2.5 Dominique Henry

The screenshot shows a web browser window with multiple tabs open. The active tab is 'SFSU CSC648 FALL22 TEAM 07' which displays a search bar with 'e.g. Janis Joplin'. Below the search bar, there are buttons for 'About', 'Make a Post', 'Login', and 'Register'. The main content area features a dark green header with the text 'Dominique Henry' and a profile picture of a woman with long dark hair. Below the photo is the title 'Software Engineer'. A bio states: 'I am a Computer Science undergraduate at San Francisco State University.' followed by 'I am looking into doing UX/UI design or Cybersecurity!'. At the bottom of the page, there are links for 'GitHub' and 'Back to Home', along with navigation links for 'SFSU CSC648 Team 7' and 'Contact Us'. The browser's address bar shows 'Not secure | gatertrader.com/about-dominique'.

3.2.6 Kobe Shelby

The screenshot shows a web browser window with multiple tabs open. The active tab is 'SFSU CSC648 Team 07' which displays a search bar with 'e.g. Janis Joplin'. Below the search bar, there are buttons for 'About', 'Make a Post', 'Login', and 'Register'. The main content area features a dark green header with the text 'Kobe Shelby' and a profile picture of a man with short dark hair. Below the photo is the title 'Frontend - Software Engineer'. A bio states: 'I am a senior College student at SFSU. I have passion for computer science and want to pursue a career in web development. My main languages are HTML, CSS, JavaScript.' followed by 'I have also programmed in Java, C++, Python, and C. I love to workout, play sports, and meet new people.'. At the bottom of the page, there are links for 'GitHub' and 'Back to Home', along with navigation links for 'SFSU CSC648 Team 7' and 'Contact Us'. The browser's address bar shows 'Not secure | gatertrader.com/about-kobe'.

3.2.7 Rai'd Muhammad

The screenshot shows a web browser window with multiple tabs open. The active tab displays a profile page for 'Rai'd Muhammad' on a website called 'GaterTrader'. The page features a dark green header with the site's logo and navigation links for 'About', 'Make a Post', 'Login', and 'Register'. Below the header is a search bar with the placeholder 'e.g. Janis Joplin'. The main content area has a dark background with white text. At the top, it says 'Rai'd Muhammad' and shows a portrait photo of a young Black man wearing a suit and red tie. Below the photo, the title 'Frontend - Software Engineer' is displayed. The bio section contains two paragraphs: 'I am an Undergraduate Student attending SFSU. My favorite programming language is TypeScript.' and 'I have completed programs in C++, html, Java and Javascript.' Further down, another paragraph states 'I am originally from Virginia and have continued my Studies in California. My previous major was biology but Computer Science peaked my interest.' At the bottom of the page, there are links for 'GitHub' and 'Back to Home'. The browser's address bar shows the URL 'gatertrader.com/about-raid'. The taskbar at the bottom of the screen is visible, showing various pinned icons and the current time as 10:21 PM.

3.3 Search

3.3.1 Search with Matches

The screenshot shows a web browser window with the GaterTrader website loaded. The search bar at the top contains the query "sound". Below the search bar, the page title is "Music > sound" and it states "2 results found". A banner below the title reads "BUY, SELL, AND SHARE DIGITAL MEDIA. BY GATERS, FOR GATERS!". Two items are listed: "Drum Kick Sound" and "Hi Hat Sound". Both items have a price of \$10 and a "Contact Seller" button.

3.3.2 Search without Matches

The screenshot shows a web browser window with the GaterTrader website loaded. The search bar at the top contains the query "soundthirteen". Below the search bar, the page title is "All > soundthirteen" and it states "No results were found for soundthirteen but here are 17 posts within all categories". A banner below the title reads "BUY, SELL, AND SHARE DIGITAL MEDIA. BY GATERS, FOR GATERS!". There are 17 items listed in a grid format, each with a thumbnail, title, price, and a "Contact Seller" button. The items include:

- test post (Thumbnail: SF State Gators logo, Price: \$100.51)
- Guitar (Thumbnail: Close-up of a guitar, Price: \$3.5)
- Abstract (Thumbnail: Abstract art image, Price: \$2)
- Microphone (Thumbnail: Image of a microphone, Price: \$2.5)
- Helping hands (Thumbnail: Image of many hands, Price: \$5.45)
- Uno Game Clip for 667 (Thumbnail: Uno game card, Price: \$10)
- Uno Game (Thumbnail: Uno game card, Price: \$10)
- Abstract Art (Thumbnail: Abstract art image, Price: \$10.25)
- Awesome Image (Thumbnail: Image of a person resting their head, Price: \$5.5)
- Glasses On Books (Thumbnail: Glasses on books, Price: \$4.5)

3.4 Dashboard

3.4.1 Recent Messages

The screenshot shows the GaterTrader User Dashboard with a dark theme. At the top, there's a search bar with placeholder text "e.g. Janis Joplin" and a magnifying glass icon. Below the search bar are links for "About", "Make a Post", "Logout", and "Dashboard". The main area is titled "User Dashboard" and features a "Recent Messages" section. This section lists four messages with details like sender, recipient, date, and content. Each message has a "Reply" button. Below the messages are sections for "Created Post" and "Pending Posts", each with a downward arrow indicating more content. At the bottom of the dashboard, there are links for "SFSU CSC648 Team 7" and "Contact Us". The taskbar at the bottom of the screen shows various open applications.

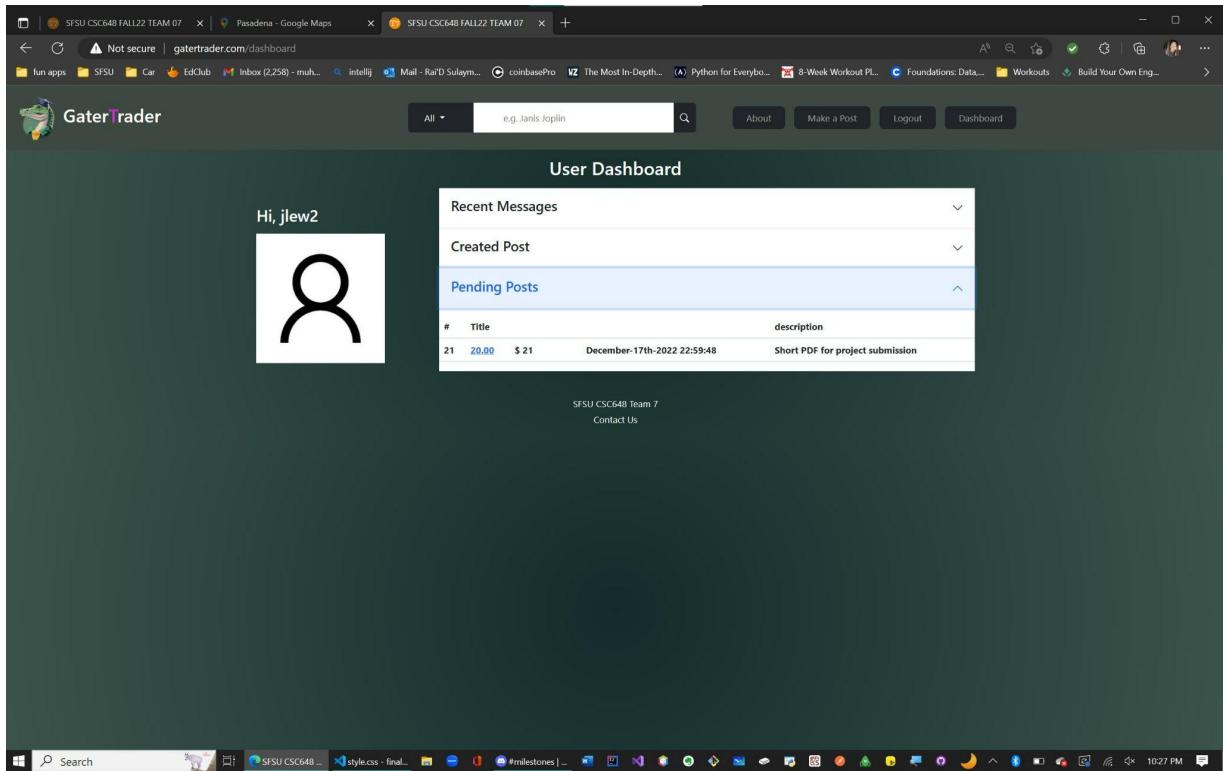
#	From	To	Date	Content	Action
25	duccio	abcd1	December-17th-2022 23:48:37	hey show the reply button!!!!!!	Reply
24	abcd1	Gineton	December-17th-2022 23:46:32	thanks ig to your msg	Reply
23	Gineton	abcd1	December-17th-2022 23:45:32	Sure, no problem!	Reply
22	abcd1	Gineton	December-17th-2022 23:42:29	Hey im interested in this video can I use it pretty pleaseee	Reply

3.4.2 Created Posts

The screenshot shows the GaterTrader User Dashboard with a dark theme. At the top, there's a search bar with placeholder text "e.g. Janis Joplin" and a magnifying glass icon. Below the search bar are links for "About", "Make a Post", "Logout", and "Dashboard". The main area is titled "User Dashboard" and features a "Recent Messages" section (which looks identical to the one in the previous screenshot). Below the messages is a "Created Post" section. This section lists several posts with details like title, price, date, and description. Each post has a "Description" link. Below the posts is a "Pending Posts" section with a downward arrow. At the bottom of the dashboard, there are links for "SFSU CSC648 Team 7" and "Contact Us". The taskbar at the bottom of the screen shows various open applications.

#	Title	Description
17	Awesome Image	\$ 5.5 December-17th-2022 22:52:47 Resting Face
18	Abstract Art	\$ 10.25 December-17th-2022 22:53:27 Detailed Image Abstract
19	Uno Game	\$ 10 December-17th-2022 22:56:10 Early ERD of Uno Game for 667
20	Uno Game Clip for 667	\$ 10 December-17th-2022 22:57:22 Short Clip of adding animation to Uno Game
22	Helping hands	\$ 5.45 December-17th-2022 23:00:52 Image of helping hands
23	Microphone	\$ 2.5 December-17th-2022 23:01:40 Image of a microphone

3.4.3 Pending Posts

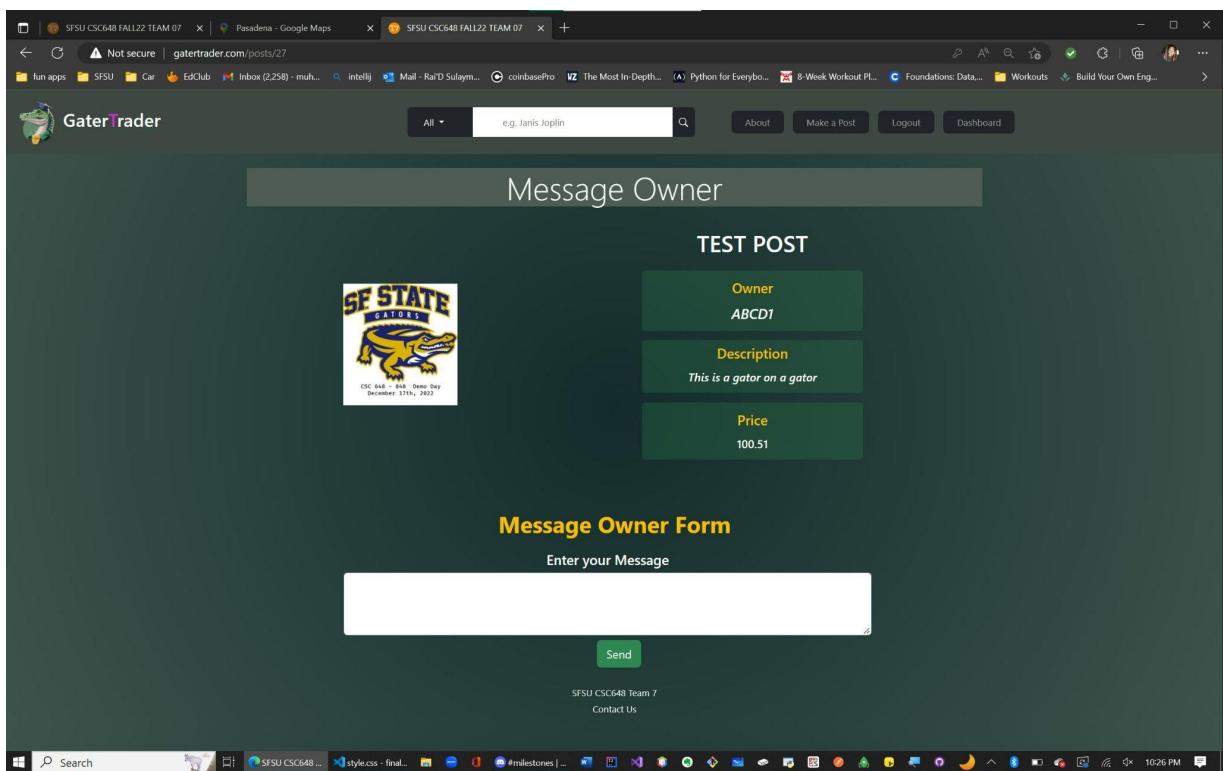


The screenshot shows the GaterTrader User Dashboard. At the top, there is a navigation bar with links for "About", "Make a Post", "Logout", and "Dashboard". Below the navigation bar is a search bar with placeholder text "e.g. Janis Joplin". The main area is titled "User Dashboard" and displays a message "Hi, jlew2" followed by a user icon. A sidebar on the right lists "Recent Messages", "Created Post", and "Pending Posts". Under "Pending Posts", there is a table with one row:

#	Title	description
21	20.00 \$ 21	December-17th-2022 22:59:48 Short PDF for project submission

At the bottom of the dashboard, there is a footer with links for "SFSU CSC648 Team 7" and "Contact Us". The taskbar at the bottom of the screen shows various open applications.

3.5 Contact Seller



The screenshot shows the GaterTrader Message Owner Form. At the top, there is a navigation bar with links for "About", "Make a Post", "Logout", and "Dashboard". Below the navigation bar is a search bar with placeholder text "e.g. Janis Joplin". The main area is titled "Message Owner" and displays a post titled "TEST POST". The post includes an image of a gator logo and three green callout boxes with yellow text: "Owner ABCD1", "Description This is a gator on a gator", and "Price 100.51". Below the post is a form titled "Message Owner Form" with a text input field "Enter your Message" and a "Send" button. At the bottom of the page, there is a footer with links for "SFSU CSC648 Team 7" and "Contact Us". The taskbar at the bottom of the screen shows various open applications.

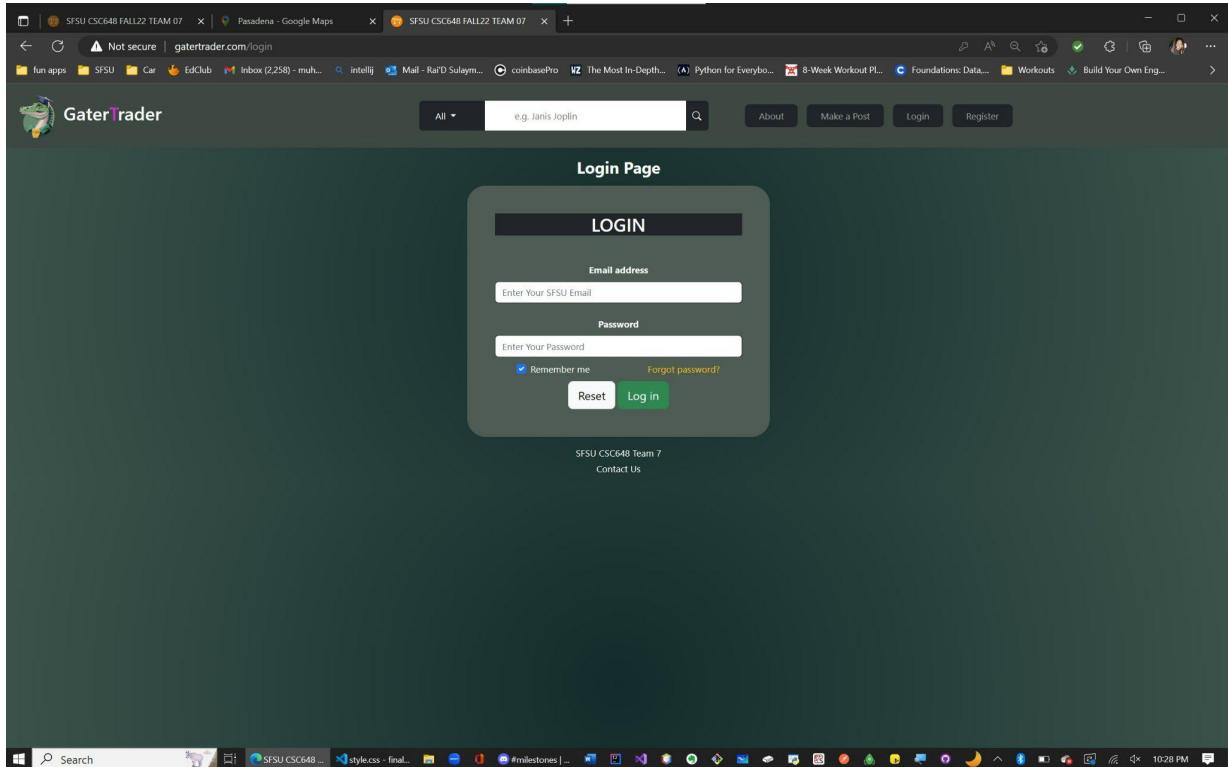
3.6 Registration

The screenshot shows a Microsoft Edge browser window with three tabs open: "SFSU CSC648 FALL22 TEAM 07", "Pasadena - Google Maps", and "SFSU CSC648 FALL22 TEAM 07 | gatertrader.com/signup". The main content area displays the "Registration Page" for GaterTrader. The page has a dark green header with the GaterTrader logo and navigation links for "About", "Make a Post", "Login", and "Register". A search bar at the top right contains the placeholder "e.g. Janis Joplin". Below the header is a large white "SIGN UP" form. The form fields are labeled "Your Name", "Your Email", "Password", and "Repeat your password". There is also a checkbox for agreeing to the "Terms of service". At the bottom of the form is a green "Sign Up!" button. Below the button, a link says "Do you already have an account? Login here". At the very bottom of the page, there is small text: "SFSU CSC648 Team 7" and "Contact Us". The Windows taskbar at the bottom of the screen shows various pinned icons and the current time as 10:28 PM.

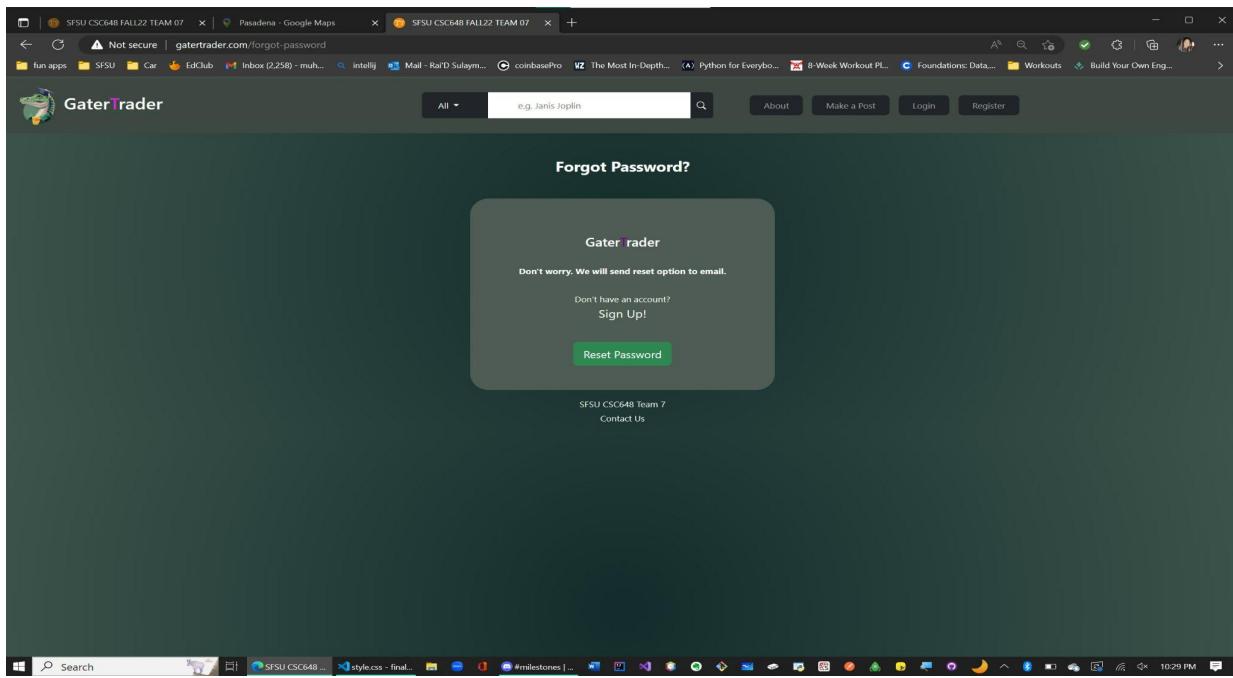
3.7 Make a Post

The screenshot shows a Microsoft Edge browser window with three tabs open: "SFSU CSC648 FALL22 TEAM 07", "Pasadena - Google Maps", and "SFSU CSC648 FALL22 TEAM 07 | gatertrader.com/make-post". The main content area displays the "Make a Post" page for GaterTrader. The page has a dark green header with the GaterTrader logo and navigation links for "About", "Make a Post", "Logout", and "Dashboard". A search bar at the top right contains the placeholder "e.g. Janis Joplin". Below the header is a large white "Make a Post" form. The form fields are labeled "Title", "Category", "Price", and "Description". There is a note "*All fields required." and a file upload section with a "Choose File" button and a message "No file chosen". Below the file upload is a "Accepted File Types" list: "Audio, Images, Videos, .pdf, .epub, .pptx". There is also a checkbox for agreeing to the "Terms of service for Posting". At the bottom of the form is a green "Make Post" button. Below the button, a note says "Posts may take up to 24 hours to be approved.". At the very bottom of the page, there is small text: "SFSU CSC648 Team 7" and "Contact Us". The Windows taskbar at the bottom of the screen shows various pinned icons and the current time as 10:31 PM.

3.8 Login



3.9 Forgot Password



4. Database Organization

4.1 Tables

The screenshot shows a database schema browser interface. At the top, there is a header labeled "SCHEMAS" with a dropdown arrow and a search bar containing "Filter objects". Below this, a tree view shows the "db_test" schema expanded. Under "Tables", there are five entries: "categories", "messages", "posts", "sessions", and "users". Under "Views", "Stored Procedures", and "Functions", there are no entries.

4.2 Categories

category_id	category_name
3	Ebooks
5	Images
2	Music
4	Slides
1	Videos
NULL	NULL

4.3 Messages

	message_id	post_id	author_id	receiver_id	message_text	creation_time
▶	1	8	5	7	I'll buy it but 5 dollars is too much for me. Let's settle for 3. What do you think?	2022-12-16 04:47:49
	2	8	8	7	Hello	2022-12-16 05:53:56
	3	10	9	9	I am able to message.	2022-12-16 13:59:18
	4	12	9	9	Hi this is me	2022-12-17 07:23:24
	5	8	7	8	Hey!	2022-12-17 07:25:21
	6	8	7	7	I worked so hard on that video! Lowest I can go is \$4.	2022-12-17 07:26:09
	7	7	7	5	I will pay you \$30 to give me exclusive rights to this video, in perpetuity.	2022-12-17 07:27:48
	8	7	5	7	sounds good	2022-12-17 07:34:30
	9	10	5	9	nice pic. what about 3 dollars?	2022-12-17 07:39:33
	10	11	5	6	What about 3 dollars for this pic?	2022-12-17 07:40:07
	11	12	5	9	this is not worth 10 bucks bro!	2022-12-17 07:43:57
	12	9	5	5	This is my own stuff, why I am allowed to send a message?	2022-12-17 07:45:07
	13	13	5	9	C'mon 10 bucks for this???	2022-12-17 07:46:23
	14	14	5	7	is this free? amazing!	2022-12-17 07:47:53
	15	7	5	5	Let's add few more messages	2022-12-17 07:49:52
	16	9	5	5	More messages	2022-12-17 07:53:52
	17	13	5	9	hey i want this	2022-12-17 08:31:35
	18	7	5	5	hi nice video!	2022-12-17 16:48:30
	19	14	5	7	test test	2022-12-17 22:37:12
	20	14	5	7	test test	2022-12-17 22:37:30
	21	14	11	7	For free?! Wow	2022-12-17 22:57:44
	22	8	14	7	Hey im interested in this video can I use it pretty pleaseeee	2022-12-17 23:42:29
	23	8	7	14	Sure, no problem!	2022-12-17 23:45:32
	24	8	14	7	thanks ig to your msg	2022-12-17 23:46:32
	25	27	5	14	hey show the reply button!!!!!!	2022-12-17 23:48:37
	HULL	HULL	HULL	HULL	HULL	HULL

4.4 Posts

	post_id	author_id	post_category	title	post_description	post_path	post_thumbnail	price	post_creation_time	approved	active
▶	3	3	3	test-Title3	This is a test description for...	/public/images/uploads/test_image.jpeg	0	2022-10-31 00:00:00	0	1	
	4	1	4	test-Title4	This is a test description for...	/public/images/uploads/test_image.jpeg	80	2022-10-31 00:00:00	0	1	
	7	5	1	A nice video of mons...	A nice video coming from th...	/public/uploads/Videos/45028316353aaeee888850b1a4cc83f3f5610ff14a8.mp4					
	8	7	1	Prelude No. 4 in E m... Prelude No. 4 in E minor is...	Prelude No. 4 in E minor is...	/public/uploads/Videos/bfe0b94db4875deec0d2fc0fa7ce03917beec67fa1.mp4					
	9	5	1	Checking if the post... Checking if the message...	Just checking if the message...	/public/uploads/Videos/ab7287b5018be1d0dea27d7e82604d23980e8923e8.m...					
	10	9	5	ra4	female persons	/public/uploads/Images/32bbc5a70a0d7e68429851a8a9d973c43a2b2e57.jpeg					
	11	6	5	golden gate bridge	This is a picture of the Gold...	/public/uploads/Images/dace26e0d362746aefcf8210e20110f54595e7e76a1.jpe...					
	12	9	2	Drum Kick Sound	drum sound	/public/uploads/Music/6a264056e61d7eaac5c73c82984006126ba3001a25.wav					
	13	9	2	Hi Hat Sound	Hi Hat drum sound. Easy to...	/public/uploads/Music/63813ba1c07465df1fcfc85bb223c03077c173562221.wav					
	14	7	5	Gater the Trader	Gater the Trader, GaterTrad...	/public/uploads/Images/20be3eb561042be7b3cf14ea0f06e50520a9e4.png					
	15	9	1	People Jogging	This is a short video of peo...	/public/uploads/Videos/d8abeefbd645240032c93aa3c7700ca2f43dc704.mp4					
	16	9	1	Glasses On Books	Short Video of Glasses on...	/public/uploads/Videos/97e7caba3ae76925520999172cf0f905c646d85a792.mp4					
	17	10	5	Awesome Image	Resting Face	/public/uploads/Images/8784c52a7b08e30dee2d5abc89df5238088dc547.jpe...					
	18	10	5	Abstract Art	Detailed Image Abstract	/public/uploads/Images/4714324d4b0a555252a5a188051cd5b9d379bc9ab5.jpg					
	19	10	4	Uno Game	Early ERD of Uno Game for...	/public/uploads/Slides/1f85c47320bf3996547011944a8ab2138497c9ed7.jpe...					
	20	10	1	Uno Game Clip for 667	Short Clip of adding animati...	/public/uploads/Videos/7a027560688030d307917e5bf033951942a7d542d.qu...					
	21	10	3	20.00	Short PDF for project submit...	/public/uploads/Ebooks/c0461fd91ffdfabfa2f87eeafafed13a519c702.pdf					
	22	10	5	Helping hands	Image of helping hands	/public/uploads/Images/ab2498669b9f5f77cef01c9e9d6e3b0ea40821303c2.jpeg					
	23	10	5	Microphone	Image of a microphone	/public/uploads/Images/3e5c66c9d511c00a9e2cbf6a432ea7f2d7701305eed.jpeg					
	24	10	5	Abstract	Abstract art image	/public/uploads/Images/e6e200676a22385f42901fa4be379976a078e6b8ed.jpeg					
	25	6	5	Yoshi's costume	I don't need it anymore	/public/uploads/Images/667125052ca495a1ef7a90a1c04757bec11a9e1827.jpeg					
	26	10	5	Guitar	Image of guitar	/public/uploads/Images/ed907514a623aae3fd8a60f1ea402ac701a940bb.jpeg					
	27	14	5	Test post	This is a gator on a gator	/public/uploads/Images/c731d24718a8c8d5d8ec6e3d5b88b204bc529fad046.png					
	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

4.5 Sessions

session_id	expires	data
► -50gwIYQWhOlUEYDgSQD_..._RhbHzpgIE	1671404080	{"cookie": {"originalMaxAge": null, "expires": null, "httpOnly": true, "path": "/"}, "flash": {}}
-MMIZ9jQaesA9rbB-LzyJ48wx7Ay9k7e	1671363824	{"cookie": {"originalMaxAge": null, "expires": null, "httpOnly": true, "path": "/"}, "flash": {}}
05gg6iammmGzA3W10aoZMxxXMGUdtFr5e	1671375452	{"cookie": {"originalMaxAge": null, "expires": null, "httpOnly": true, "path": "/"}, "flash": {}}
09W0Zt7vZHayguUckLn9CT5if9rdTKzB	1671385227	{"cookie": {"originalMaxAge": null, "expires": null, "httpOnly": true, "path": "/"}, "flash": {}}
0c7FH_F5LdA5h97ZQGD3WuQUAZDT74iz	1671425102	{"cookie": {"originalMaxAge": null, "expires": null, "httpOnly": true, "path": "/"}, "flash": {}}
0t1Xq5Mik8rCogGKYO0T68LgjLB86ynZ	1671395543	{"cookie": {"originalMaxAge": null, "expires": null, "httpOnly": true, "path": "/"}, "flash": {}}
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4.6 Users

user_id	username	email	password	creation_time	active
► 1	user-test-1	email@test-1.com	pass1	2022-10-31 00:00:00 1	
2	user-test-2	email@test-2.com	pass2	2022-10-31 00:00:00 1	
3	user-test-3	email@test-3.com	pass3	2022-10-31 00:00:00 1	
5	duccio	drocca@sfsu.edu	\$2b\$15\$S5oVya02yV3ozR/lexn.uXVi/tc/Uz8YHHSbry0G4VxUiPgDi9/m	2022-12-16 03:27:40 1	
6	Yoshimasalwano	yiwano@sfsu.edu	\$2b\$15\$Tt8W0z3vmM8XDOWLsNoE4eZQPWj40zCvEwDe34p78uKkrxFafA8gS	2022-12-16 03:37:07 1	
7	Gineton	galenkar@mail.sfsu.edu	\$2b\$15\$8X8iHn4fksgVR7Xs8wquhuoWrePL1m0kgIfwlBmbnB17v7yaKK.	2022-12-16 04:04:52 1	
8	Eddie	efu1@sfsu.edu	\$2b\$15\$AtjBlOsEp7tw8c4F5uqawe8ztrdNtIX.XBbrYvH9l/EcWkyJez8mC	2022-12-16 05:53:29 1	
9	ra4	ra4@mail.sfsu.edu	\$2b\$15\$ZfAI0tW6XrPwPh/KBu5e41yC1Z6e.Txv4RFJWW3oLUdqEGhRq	2022-12-16 13:53:30 1	
10	jlew2	jlew2@mail.sfsu.edu	\$2b\$15\$1df96T0nEA1EkyVfzb8fuswU/KYdP7xmpXMYCUrYkl8fGF3UTiO	2022-12-17 08:43:55 1	
11	test	test@sfsu.edu	\$2b\$15\$ov/W8vXtYBhr2WGbfLMhecc9lsxKRleMwfxf3GezNz4Edf7mp50W	2022-12-17 22:57:44 1	
12	arac	arac@mail.sfsu.edu	\$2b\$15\$XB2dTWaf6SMIJpkLeQwHvuMdvsgrb5TaGMbS03eBfDWcpue3KCaQy	2022-12-17 23:09:23 1	
13	arac2	arac2@sfsu.edu	\$2b\$15\$3lOf.QvkFxBiELWu2KUvMuWRkL2q4yg6DpmnQEec2RAXf5jYyPmQq2	2022-12-17 23:10:01 1	
14	abcd1	abcd1@mail.sfsu.edu	\$2b\$15\$X11hJ1WbLe6E/NR12bxn2efJoSqunBUKYystPgzW8PkOJ5Zp4ytm	2022-12-17 23:42:29 1	
NULL	NULL	NULL	NULL	NULL	NULL

5. Github Organization

- A. *list main branches in your team github and clarify who had access to master branch;*
- *main: this is a master branch of our team project repository.*
 - *development: this repository is the most advanced branch before launching the product.*

The members who access to mastar branch (main) are Gineton Alencar (Team Lead) and Yoshimasa Iwano (GitHub Master)

- B. *describe each top level folder in your github file organization (its name and what it contains – up to 3 lines per folder);*
- *Milestones: it contains documents of each milestone*
 - *application: it contains the source code of our project*
 - *credentials: it contains the information about logging into our server and database.*

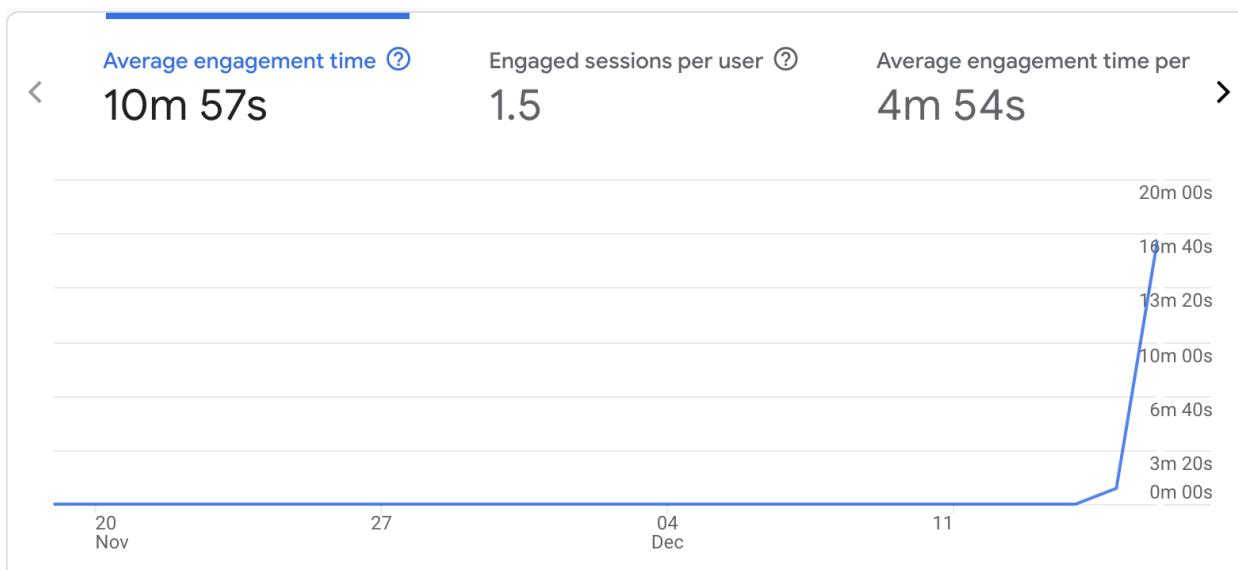
- C. *provide screen shot of your team github home page*

This screenshot shows the GitHub repository 'CSC-648-SFSU / csc648-03-fa22-team07'. The repository has 30 branches and 0 tags. The main branch is selected. The repository description is 'Team 7 Project Repo for CSC 648/848-03 Fall '22 at San Francisco State University'. The repository has 100 commits. The commits listed include: 'Add Milestone 4 document PDF' by bedtee5 last week, 'fixing link' by bedtee5 3 months ago, 'Update 1-IP-address.txt' by bedtee5 last month, 'remove html, css, js files from .gitignore' by bedtee5 3 months ago, 'Initial commit' by bedtee5 3 months ago, and 'Add last student info to repository README.' by bedtee5 3 months ago. The repository also contains files like README.md, LICENSE, .gitignore, and .DS_Store. The sidebar shows sections for Releases and Packages.

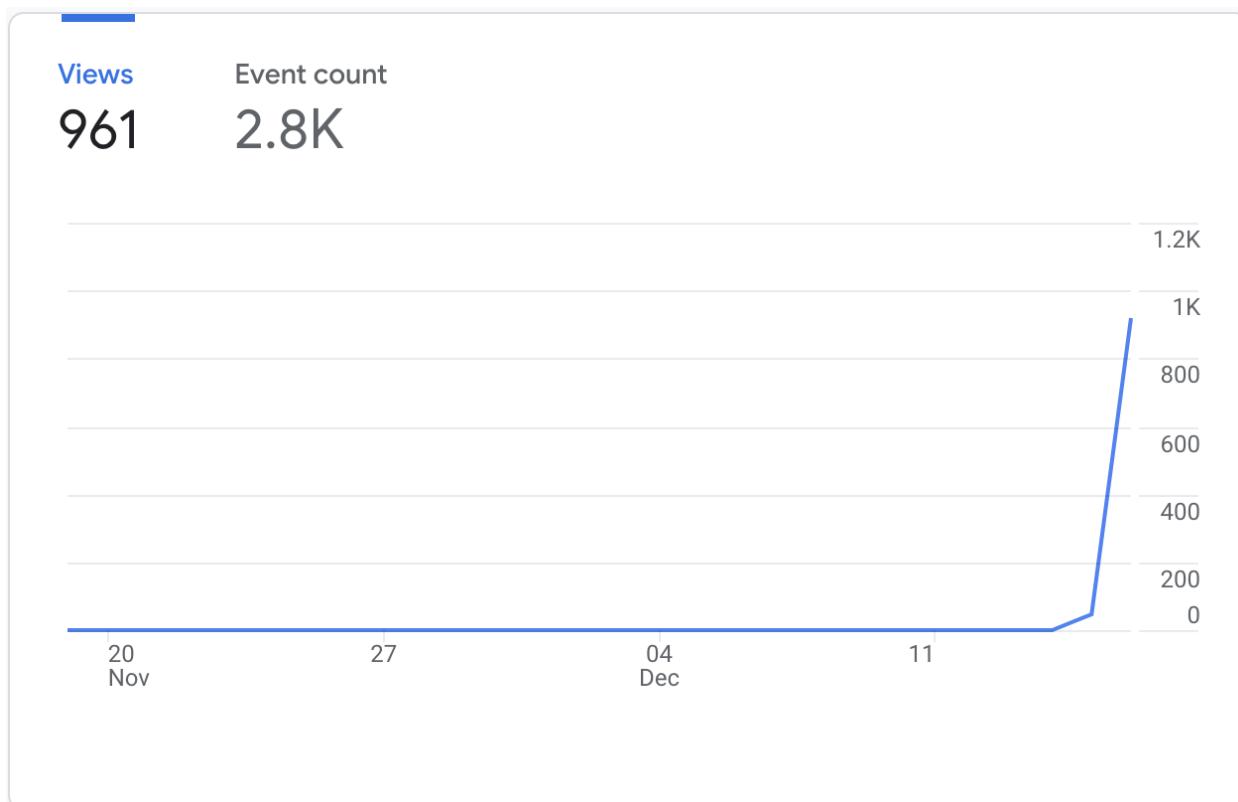
This screenshot shows the GitHub repository 'CSC-648-SFSU / csc648-03-fa22-team07'. The repository has 30 branches and 0 tags. The main branch is selected. A dropdown menu titled 'Switch branches/tags' is open, showing a list of branches and tags. The branches listed are: main, development, answer-message-button, back-end-fixes, contact-seller, dashboard, display-only-approved-posts, donDev, fixing-message-validation, and fixing-upload-validation. The repository description is 'our teams application URL or IP to the repository description. This will help with grading. Teams are expected to keep this'. The sidebar shows sections for Releases and Packages.

6. Google Analytics Statistics

6.1 Engagement Overview

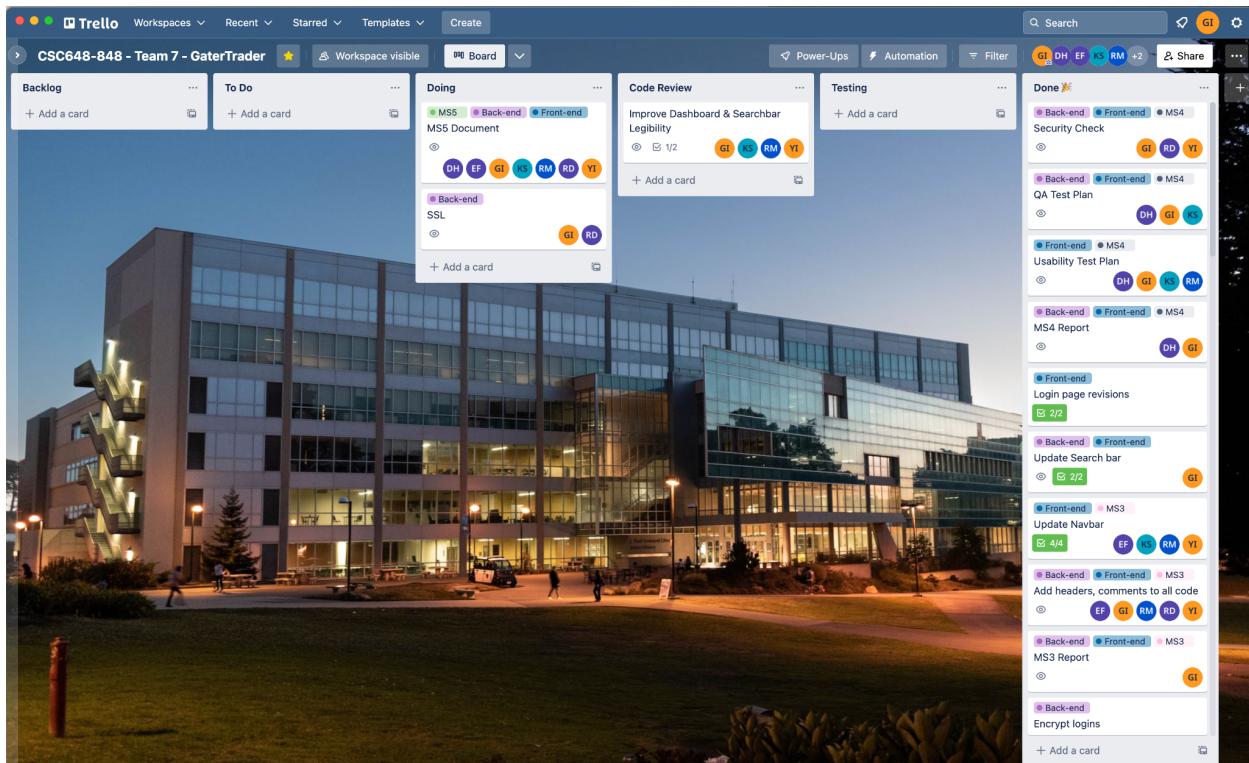


6.2 Views



7. Project Management

7.1 Trello Kanban Board



Update Navbar

in list [Done](#)

Members: EF, KS, RM, YI

Labels: Front-end, MS3

Notifications: Watch

Description

Add a more detailed description...

Updates

Hide checked items Delete

100% Make Navbar more distinct from background/rest of page with a unique background or border

Remove Home, Contact Us, and About from Navbar

Add Post button

Make drop-down list fixed-width to fit all categories, to fix navbar resizing and moving when choosing a category

Add an item

Suggested: Join

Add to card: Members, Labels, Checklist, Dates, Attachment, Cover, Custom Fields

Power-Ups: + Add Power-Ups

Automation: + Add button

Actions

8. Team Self-Assessments and Contributions

8.1 Gineton Alencar: Team Lead

From: Gineton Alencar <galencar@mail.sfsu.edu>

Subject: CSC 648-848 Team 7 Self-Assessment and Contributions

Date: December 16, 2022 at 18:35:34 PST

To: Duccio Rocca <drocca@sfsu.edu>, Dominique Michelle Henry <dhenry3@mail.sfsu.edu>, Kobe Deshane Shelby <kshelby@mail.sfsu.edu>, Rai'd Sulayman Muhammad <rmuhammad@mail.sfsu.edu>, Eddie Fu <efu1@sfsu.edu>, Yoshimasa Iwano <yiwano@sfsu.edu>

Hi Team 7,

Please find my self-assessment and contributions below. Please reply with your own but keep yours under a page. See full requirements in MS5 doc for details. Thank you all for your contributions to the project! I am glad to have worked with you all and wish you good luck! Well done, Team 7.

Best,

Gineton Alencar

Team 7 Lead

CSC 648-848

Team 7: Self-Assessment and Contributions

Gineton Alencar: Team Lead

1. Contributions:

- a. Managed the project through each Milestone, including task breakdown, prioritization, and management.
- b. Wrote significant portions of all Milestones. Contributions were made to nearly all sections, including writing documentation and copy, layout and formatting, and preparation for submission. All milestones were submitted in a timely fashion.
- c. Worked to help onboard team members to set up development environments and use tools for the project, including Discord, GitHub/git, VSCode, Trello, Figma, Google Drive, etc.
- d. Set-up and maintained project management and collaboration tools, such as a team Discord server for communication, Trello Kanban board for project and task management, Google Drive folder and documents, Figma project page, etc.
- e. Contributed to code review, identifying bugs and suggesting potential improvements for the project.
- f. Made some direct contributions to project code, when appropriate.

- g. Made executive decisions for the project, in consultation with team members, with regards to: project technology stack, development environment, coding style, functional and non-functional site-requirements, etc.
- 2. Github commits:
 - a. Approximately 15 commits.
 - b. Commits were primarily focused on Milestone submissions, pull requests, and project management. Some contributions to code were made when appropriate or necessary (e.g., personal about page, Google analytics integration), but contributions were primarily high-level and administrative.
 - c. I interacted further with the codebase via code reviews (on and off GitHub), high-level decisions for the project (e.g., tech stack), and supporting team members more directly in development.
- 3. Challenges:
 - a. Challenges encountered were primarily related to leadership inexperience and circumstances surrounding the project. Regarding inexperience, there were instances where my management of the project was not optimal and led to confusion or imbalanced distribution of work. For example, while I did fairly well at creating tasks and ensuring their completion for timely submissions, I did not always give direct assignments and set reasonable deadlines. Instead of trusting my ability to delegate or assign tasks and give deadlines, I had a tendency to hesitate and let team members choose what tasks to take on and not give hard deadlines. This may have contributed to an imbalance in work distribution across team members. It may have also contributed to development crunch near deadlines, rather than a more reasonably spread-out period of time. I sometimes had difficulty getting the team to use certain workflows. For example, while I set up Trello to manage tasks, I did not succeed in getting universal and consistent engagement from the team with the Kanban board. While there was more Trello buy-in from team leadership, I feel like I could have done more to successfully integrate it into our workflow throughout the project.
 - b. Regarding circumstances surrounding the project, there were primarily challenges with coordination. For instance, early in the semester, we were able to meet synchronously on a fairly consistent basis. As the semester went on, it became more and more challenging to find times when even a majority of the team could meet together. Work, school scheduling conflicts, and personal circumstances all played a role. For instance, some team members could only meet during the day while others only at night. Health was also a variable, including COVID-19 interfering with my engagement with the team after a family illness and personal exposure.
- 4. Lessons Learned:

- a. The experience of being Team Lead was very educational. As previously described, many lessons were learned from challenges faced during the project, both personal and team related. Personally, I became more aware of some of my weaknesses with regards to trusting my judgment and leading. If I am given other opportunities to lead, I know that it will be important for me to be more confident and communicative with my exercise of judgment. I should not hesitate to delegate tasks and assign deadlines. It would be helpful for me to set up systems and scaffolding to help keep myself on track and motivated, especially for times when outside circumstances interfere with a project.
- b. With regards to the team, I really enjoyed my experience working with everyone. I feel confident in my team's abilities and am glad to have had the opportunity to work with them. There are ways I could have improved my leadership and interactions with the team, however. Given more time and the knowledge that I have now, I would have established norms and systems from the get-go. I expect I would have attained more success with buy-in for the team if I had established clear routines early, for example, with ownership of tasks with Kanban. In the future, I know to be more clear and specific with designating responsibilities of team members, especially others in leadership positions. On occasions where I notice personal difficulties with my leadership, I will be more communicative. I will get more feedback from the team, and improve follow through on integrating it for the team's success.

8.2 Dominique Henry: Document Master, Engineer

From: Dominique Michelle Henry <dhenry3@mail.sfsu.edu>

Subject: Re: CSC 648-848 Team 7 Self-Assessment and Contributions

Date: December 16, 2022 at 18:54:26 PST

To: Gineton Alencar <galencar@mail.sfsu.edu>, Duccio Rocca <drocca@sfsu.edu>, Kobe Deshane Shelby <kshelby@mail.sfsu.edu>, Rai'd Sulayman Muhammad <rmuhammad@mail.sfsu.edu>, Eddie Fu <efu1@sfsu.edu>, Yoshimasa Iwano <yiwano@sfsu.edu>

Hey Team,

Here is my Self-Assessment and Contributions to our team project. It was a pleasure working with all of you. Good Luck!!

-Dominique Henry

A. Contributions:

- a. For milestone two we were asked to create UI mock-ups for the website. I assisted with creating the mock ups for this. Along with the mock ups we were required to give explanation to what each of the specific step were doing.
- b. For each milestone we were required to have pages of documentation in which I did help assist with. Which is why I dont have many commits due participating more in documentation then the coding.
- c. Creating our personal about pages is where I also assisted with when it came to the coding aspect of the project and creating my own local database.

B. Github commits:

- a. My github commits werent the highest due to most of the responsibilities I had were for milestone documentations and creating UI mock ups for the website. There were a few commits done as far as coding.

C. Challenges:

- a. A challenge I faced was after I had the database up and running for a while it stopped working. Getting it back up and running I had to collaborate with most of my team members to reach a solution.
- b. Meetings towards the end of the semester started to become difficult to coordinate when everyone was available around the same time frame. Overall, I believe I had a great team.

D. Lessons Learned:

- a. A valuable lesson learned was for the team work. Although I have worked in teams before Ive never done it in the sense of software engineering and meeting multiple deadlines. The lessons learned were very knowledgeable, a good expierece and these skills can be taken any where. Im happy that I got to take this class in college before entering the “real world”, rather than having to learn as a go.
- b. Time management, college taught me about this alone but this class pushed it a little bit more due to the class being handled as if we were in the work force. It made it more professional which required meeting specific deadlines.

8.3 Duccio Rocca: Back-end Lead

From: Duccio Rocca <drocca@sfsu.edu>

Subject: Re: CSC 648-848 Team 7 Self-Assessment and Contributions

Date: December 16, 2022 at 19:28:25 PST

To: Gineton Alencar <galencar@mail.sfsu.edu>, Dominique Michelle Henry <dhenry3@mail.sfsu.edu>, Kobe Deshane Shelby <kshelby@mail.sfsu.edu>, Rai'd Sulayman Muhammad <rmuhammad@mail.sfsu.edu>, Eddie Fu <efu1@mail.sfsu.edu>, Yoshimasa Iwano <yiwano@mail.sfsu.edu>

Hey Team,

Here are my Self-Assessment and Contributions to our team project. Thanks for everything and good luck!

-Duccio Rocca

Duccio Rocca: Backend Lead

A. Contributions:

- a. I mostly focused on the back-end implementation. I helped with documentation regarding the back-end part and the vertical prototype.
- b. I helped a little bit on the front end to solve some implementation issues.

B. GitHub commits:

- a. I have a high number of commits because I took care of the back end which required many changes and therefore more commits than usual.

C. Challenges:

- a. A challenge was definitely represented by coordinating with other people working on the same part of the program. We refined our coordination along the way and we ended up being pretty efficient in working together.
- b. Keeping track of the documentation was also a challenge, I didn't dedicate too much time to it and I easily lost track of it, thankfully other team members helped to cover that aspect of the project.

D. Lessons Learned:

- a. I learned the importance of good management and of having a motivated and cohesive team.
- b. Having to coordinate with other team members made me realize how crucial is to use the right tools to be able to keep track of other's people work and to show everyone else your progress.

8.4 Rai'd Muhammad : Frontend

From: Rai'd Sulayman Muhammad <rmuhammad@mail.sfsu.edu>

Subject: Re: CSC 648-848 Team 7 Self-Assessment and Contributions

Date: December 16, 2022 at 19:38:30 PST

To: Duccio Rocca <drocca@sfsu.edu>, Gineton Alencar <galencar@mail.sfsu.edu>, Dominique Michelle Henry <dhenry3@mail.sfsu.edu>, Kobe Deshane Shelby <kshelby@mail.sfsu.edu>, Eddie Fu <efu1@sfsu.edu>, Yoshimasa Iwano <yiwano@sfsu.edu>

Rai'd Muhammad : Frontend

A. Contributions:

- a. Helped Complete Milestones.
 - b. Assisted in storyboard creation and figma utilization.
 - c. Helped design mockups.
 - d. Made input for code debugging.
 - e. Cooperated with backend members to implement a local database.
 - f. Used a local database to make contributions to the project.
 - g. Used Trello to understand what tasks needed to be completed.
 - h. Assisted team with developing front end pages.
 - i. Helped create login and registration validation.
 - j. Made hotfixes to code format. Increased visual aspect of page stylings with CSS.
 - k. Cooperated and communicated with github master for proper pull request and code merging.
- B. Github commits:
- a. ~40 commits.
 - b. Commits were in most cases front-end related.
 - c. Some commits were directly tied to page styling or documentation.
- C. Challenges:
- a. Biggest challenge I faced was learning bootstrap. Bootstrap was new to me and took some time to pick up.
 - b. Handlebars wasn't too difficult but I had to involve the backend members to figure out how to display usernames and post information.
 - c. Teamwork in general was a learning curve. Often, I desire to code alone and figure out problems individually, but this project helped me discover that coding alone, in itself, is a nightmare. The functionalities of the site alone demanded that we not only interact but learn from each other to reach project completion.
- D. Lessons Learned:
- a. I learned bootstrap.
 - b. Handlebars.
 - c. UI mockups and use case formulation.
 - d. Increased database knowledge.
 - e. Teamwork and team hierarchy.
 - f. Increased github skills.
 - g. Time management.
 - h. Continuous integration and debugging.
 - i. Core programming concepts (code style and consistency)

8.5 Eddie Fu: Front-End Lead

From: Eddie Fu <efu1@sfsu.edu>

Subject: Re: CSC 648-848 Team 7 Self-Assessment and Contributions

Date: December 16, 2022 at 21:00:41 PST

To: Rai'd Sulayman Muhammad <rmuhammad@mail.sfsu.edu>, Duccio Rocca <drocca@sfsu.edu>, Gineton Alencar <galencar@mail.sfsu.edu>, Dominique Michelle Henry <dhenry3@mail.sfsu.edu>, Kobe Deshane Shelby <kshelby@mail.sfsu.edu>, Yoshimasa Iwano <yiwano@sfsu.edu>

Eddie Fu: Frontend Lead

1. Contributions:

I mainly worked on assigning people tasks for the front-end portion of the project. I also helped with the milestone documentation for parts of the project which included and ranged from m1-m5. Attended all the meetings that were assigned and were active in participation and contribution. I coded the front end that was assigned to me even though not all the stuff I coded made it to the final round.

2. GitHub commits:

I had a total of about 5-10 commits. A lot of my commits were related to front-end stuff since I am the front-end lead. There were a lot of trouble and issues people had while figuring out which framework to use and getting comfortable with the framework we chose which I assisted with.

C. Challenges:

The challenges I've had throughout the project were time management and getting people on the same schedule. As students, we typically have different schedules and sometimes it can get difficult to get on the same page. Another challenge I have experienced was conflicting working styles. Personally, I tend to like to sit down a couple of days before an assignment or milestone is due and just finish everything after several bottles of energy drinks or coffee. For me, that style of working works the best since I used to always cram before exams. I find that it is not everyone's go-to style of getting work done.

D. Lessons Learned:

The biggest lesson I learned was that it was incredibly difficult to manage people. I think on the technical side, it is something that is black and white and can be distinguished between yes and no, while, for people, it can be often challenging to delegate tasks and say things without hurting the other person's feelings. I remember succinctly in one of the lectures you mentioned that to be a good lead, you would have to be good with people horizontally and vertically. Other things I learned from this project also include the importance of mock-ups and use-cases and the importance of setting priorities for project completion.

8.6 Yoshimasa Iwano: Github Master

From: Yoshimasa Iwano <yiwano@sfsu.edu>

Subject: Re: CSC 648-848 Team 7 Self-Assessment and Contributions

Date: December 17, 2022 at 01:34:25 PST

To: Gineton Alencar <galencar@mail.sfsu.edu>, Duccio Rocca <drocca@mail.sfsu.edu>, Dominique Michelle Henry <dhenry3@mail.sfsu.edu>, Kobe Deshane Shelby <kshelby@mail.sfsu.edu>, Rai'd Sulayman Muhammad <rmuhammad@mail.sfsu.edu>, Eddie Fu <efu1@mail.sfsu.edu>

Hi Team 7,

This is my self-assessment and contributions. Thank you everyone.

Best,

yoshi

CSC 648-848

Team 7: Self-Assessment and Contributions

Yoshimasa Iwano: Github Master

A. Contributions:

- a. Managed GitHub throughout the project, maintaining main and develop branch correctly.
- b. Done code review and approving each merge into development and main branch.
- c. Helped team members with setting up workbench and other environment regarding to package.json.
- d. Worked on an entire coding of the project, including both backend and frontend.
- e. Discussed features and implementations we should design.

B. GitHub commits:

- a. Approximately 51 commits.
- b. Mainly I worked on the backend coding such as routers, middleware related to MySQL.
- c. Sometimes, I worked on making a page responsive using CSS and bootstrap.

C. Challenges:

- a. The challenges I faced through this project are the difficulties of communication with team members in meeting and in coding. I realized that communication in code is as important as conversations in person because the code does not tell us the purpose of each function. Without comments in the code, it takes more time to understand the code of others or even the code I wrote a month ago. In order to deal with this challenge, we need a regular meeting and chatting platform such as Discord we used for this project. The smooth communication makes the development of team project faster and powerful.

- b. Another challenge is teaching others a new tool. In most cases, our knowledge and experience of the software engineering. We need to be at the same level as much as we can to develop the one product together. We can be both sides depending on the team members or projects. Teaching others requires us deeper understanding and fluency of the tools and teaching others takes more work than doing by myself. However, I noticed that helping with other is best way to learn it.

D. Lessons Learned:

- a. Working in a team is not only helping each other also learning from others. In this team project, I helped team members in some situations, and I learned the better way to teach others as I helped team members many times. Next time, I will focus on finding an efficient way to share knowledge with all members in less time.
- b. Learned the importance of communication. When the team leader assigns the task, the leader needs to know each team member's knowledge and skills accurately to assign an appropriate person. I believe that the choice who is assigned is based on the reliability how the person will complete the task well. The strong relationship is necessity to get a job and assign a task. Therefore, next time if I am a leader or not, I will make a strong connection with team members to make workflow smooth.

8.7 Kobe Shelby: Frontend

From: Kobe Deshane Shelby <kshelby@mail.sfsu.edu>

Subject: Re: CSC 648-848 Team 7 Self-Assessment and Contributions

Date: December 17, 2022 at 04:15:27 PST

To: Yoshimasa Iwano <yiwano@sfsu.edu>, Gineton Alencar <galencar@mail.sfsu.edu>, Duccio Rocca <drocca@sfsu.edu>, Dominique Michelle Henry <dhenry3@mail.sfsu.edu>, Rai'd Sulayman Muhammad <rmuhammad@mail.sfsu.edu>, Eddie Fu <efu1@mail.sfsu.edu>

Kobe Shelby: Frontend

A. Contributions:

- a. I mostly worked on the about me page in milestone 0 and implemented it into the main page.
- b. Worked in Figma to design one of the concepts for the main homepage.
- c. Tested the site's objects on different browsers to make sure they performed correctly or expected.
- d. Participated in every meeting and shared ideas.

B. Github commits:

- a. Approximately made a total of 8 commits.

- b. These commits were primarily submitted during milestone 0 and were all related to the frontend parts of the project.
- c. The commits showcased my work on the about me page that included HTML and CSS source files.
- d. Created personal branches to commit to for testing and approval.

C. Challenges:

- a. Biggest challenge I faced was getting familiar with git and its commands in order to pull, push, and commit to different branches.
- b. Installing my SQL and familiarizing myself with a little bit of backend.
- c. I also had a hard time making a local connection with the server and importing its data into SQL.
- d. Teamwork and time management. Also staying on track of what needed to be done for each of the milestones.
- e. Making a web page responsive with media queries in CSS
- f. Attempting to create a search bar

A. Lessons Learned:

- a. Collaborate and communicate among teammates. We also learned from one another.
- b. Learned how to navigate visual code features and using the push, pull, and commit commands to submit my work to different repository branches.
- c. Working with MySQL and establishing a connection with the server
- d. The overall process of creating an efficient website with products to show off to the public.