

San Francisco State University

Final Project for SW Engineering Class CSC 648-848 Fall2020

GatorGoods

<http://ec2-54-153-71-183.us-west-1.compute.amazonaws.com:5000/>

Team 08 Global

Keith Eastman, Team Lead || keastman@mail.sfsu.edu

Trenton Smith, GitHub Master | Editor

Zhuozhuo (Joy) Liu, Front-end Lead

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In coordination with Fulda University, Germany

Milestone 5: Final Project

December 18, 2020

Date Submitted	Dates Revised
12/18/2020	N/A

1. Product Summary

- **Name:** GatorGoods
- **Coordination:** GatorGoods is developed by a joint Global team comprised of students from San Francisco State University, CA, and Fulda University, Germany.
- **URL:** <http://ec2-54-153-71-183.us-west-1.compute.amazonaws.com:5000/>
- **Committed Function List:**
 - **Unregistered Users**
 1. Users shall be able to browse items by category
 2. Users shall be able to search items by category and/or text
 3. Users shall be able to filter browse/search results
 4. Users shall be able to register accounts by providing their username, password, and San Francisco State University email address
 - **Registered Users**
 1. Users shall have complete functionality of an Unregistered User plus the following:
 2. Users shall be able to log into their unique accounts by providing their username and password
 3. Users shall be able to create product listings
 4. Users shall be able to select from a listing of safe meeting places around the San Francisco State University campus in order to meet with a buyer or seller (unique to GatorGoods)
 5. Users shall be able to contact the selling parties of product listings
 6. Users shall be able to access their dashboard where they can view all their product listings, read messages from prospective buyers, and/or choose to delist a product listing
 - **Admin Users**
 1. Users must moderate content on the site through the following means:
 - 1.1. Deleting a pending product listing which violates the terms and agreements (Fulda team responsible)
 - 1.2. Approving a pending product listing which conforms to the terms and agreements will allow it to be published (Fulda team responsible)

2. Milestone Documents — M1-M4

2.1. M1 (begins next page)

San Francisco State University

SW Engineering CSC648/848 Fall 2020

GatorGoods

Team 08

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Milestone 1

September 24, 2020

Date Submitted	Date Revised
9/24/2020	9/27/2020

1. Executive Summary

The world has changed rapidly over the past few months as Covid-19 continues to impact the way we live. Obeying local governmental safety protocols, residents have largely chosen to stay home unless absolutely critical. This has given rise to an unparalleled explosion of online shopping. Shoppers have flocked to online outlets in search of everything from groceries to school supplies, and because of this, shipment delays are common. This is where we come in. While GatorGoods cannot fix the problem for everyone, we aim to at least alleviate some of the burden of waiting for those working, studying, and/or living at San Francisco State University (SFSU).

Our goal is to provide an online marketplace specifically designed and limited to students and faculty at SFSU. We will provide a single, consolidated web application where users can buy and sell items that others attending the university might need (no financial transactions will occur through the site). This includes school supplies, dorm furniture, clothing, and more. Due to our transactions being offered as an in-person meet-up agreement limited to safe spaces around campus, users will know for certain that they can get their supplies on their schedule, and without worrying about unnecessary shipping delays.

Our team is a small but highly dedicated start-up of four current students at SFSU, who will be joining forces with a separate development team from Germany for the latter stages of the project. We are passionate about providing an easy, quick, reliable, and safe way for those of us on and around campus to buy and sell school supplies. Moreover, our ultimate mission is to provide users an opportunity to develop new relationships with their peers, and in doing so, strengthen our great Gator family.

2. Personae and main Use Cases

2.a. Personae

Jessica	
<ul style="list-style-type: none"> • Characteristics <ul style="list-style-type: none"> • First year SFSU student • History major • Excited to be on her own • Goals <ul style="list-style-type: none"> • To pass all her classes • To meet new people • To discover new interests • Skills/Familiarity with Technology <ul style="list-style-type: none"> • Great with social media apps • Uses cellphone, laptop regularly to access the internet • Frustrations/Concerns <ul style="list-style-type: none"> • Nervous for the semester because she's never been on her own before 	Image by Anastasia Gepp from Pixabay

Nate	
<ul style="list-style-type: none"> • Characteristics <ul style="list-style-type: none"> • Fourth year SFSU student • Biology major • Ecstatic to be graduating • Goals <ul style="list-style-type: none"> • To graduate on time • To find an entry-level position post graduation • Skills/Familiarity with Technology <ul style="list-style-type: none"> • Uses computers frequently • Expert knowledge of SFSU iLearn and web systems • Frustrations/Concerns <ul style="list-style-type: none"> • Doesn't know what to do with all his old school and dorm supplies 	Image by Andrea Piacquadio from Pexels

Professor Anderson

- **Characteristics**
 - SFSU Geography Professor
 - Old-fashioned teaching methods
 - Passionate about his classes
 - Loves the natural world
- **Goals**
 - To teach the required material
 - To inspire his students
 - To instill a passion for learning
- **Skills/Familiarity with Technology**
 - Uses computers infrequently
 - Uses cellphones even less
 - Knows how to Google search
 - Has a GatorGoods account
- **Frustrations/Concerns**
 - Concerned that forests are being culled for paper goods and single-use items
 - Doesn't want to see used books be discarded or destroyed



Image by Hatham from Unsplash

Julie

- **Characteristics**
 - Third year SFSU student
 - Computer Science major
 - Admin for GatorGoods
- **Goals**
 - To successfully moderate content on GatorGoods
 - To finish all her classes with A's
- **Skills/Familiarity with Technology**
 - Great with all technology
 - Routinely browses GatorGoods and knows it well
- **Frustrations/Concerns**
 - Doesn't want to spend all of her already reduced free-time moderating content



Image by Alexandra Lammerink from Unsplash

2.b. Use Cases

1. [Buyer] **Jessica** is an incoming freshman attending college for the first time in her life. She's incredibly excited but also extremely nervous because she's never lived on her own before. She's never gone through the process of scheduling college classes, so she doesn't know exactly what school supplies she'll need nor where to find them, and to top it off she doesn't have any dorm supplies either! Further, she barely knows the area surrounding the campus, let alone how the muni system works, so she isn't comfortable venturing into the city by herself yet. One of her suite mates tells her to check out GatorGoods for help getting settled in, so she finds the site on her phone and checks it out. Immediately she notices that there are easily browsable categories. She browses furniture for a bit before noticing a lamp she really likes. She clicks on the picture of the lamp which brings up additional information as well as an option to add the item to her favorites list. She tries to add the lamp to her favorites, but a prompt directs her to first create an account before favoriting an item. After entering her information, she receives notification that her account has been created and then navigates back to the lamp. In that brief moment during registration, Jessica has decided that she actually wants to purchase the lamp as soon as possible, so she messages the user who made the product listing for the lamp with an offer, and hopes they'll respond!
2. [Seller] **Nate** is a senior student about to graduate, and has no issues going through the process of finding school supplies and simply waits for professors to state what materials are needed for their classes in person so he doesn't end up purchasing unnecessary items. At this point in his academic career, his main focus is graduating, finding a job, and finding a way to get rid of his dorm furniture that he'll no longer need! He already has a GatorGoods account and has used the site to buy a used textbook last semester, so he's familiar with how the process of buying and selling works and knows he can possibly find buyers for his dorm furniture. He accesses the site on his laptop, logs in, and clicks the link to make a product listing. He decides to test run through the selling scenario by making a hypothetical product listing for his desk chair. GatorGoods takes him step-by-step through the process, having him fill in information about the chair before requesting he upload a picture of the item, and then directs Nate to either finalize the post, or to cancel it. He cancels the test run, but feels reassured knowing it's a simple and easy process to sell his items on GatorGoods once the semester is over.

3. [Seller] **Professor Anderson** is a tenured and dedicated geography professor at SFSU. He loves teaching, and is always excited to greet the students in his new classes. However, he's decidedly less enthusiastic about cutting down trees to print new textbooks for courses that haven't changed their content from the previous semester. This, combined with the fact that he just recently received news that his new course was approved for lecture and will be offered next semester, means that he was in the perfect position to give his previous class' textbook a new home. Despite not being tech-savvy, Professor Anderson has found the process of registering an account with GatorGoods and making a product listing for his old textbook easy, even for him. One day between classes, he sits down in front of the aging desktop computer in his office and opens his browser to GatorGoods, where he logs into his account. He checks the status of his product listing, and sees that some interested users have recently messaged him with potential offers. He reads their offers and decides that he will accept one which seems like a fair price. The next day after meeting with the buyer in-person and selling his textbook, he goes back to his office happy that no trees had to be culled for his old class, and marks his product listing as sold so that he stops receiving notifications of offers for the textbook he no longer owns.

4. [Admin] **Julie** is a computer science major in her third year at San Francisco State University who's recently accepted an admin role for GatorGoods. She knows computers and technology like the back of her hand, and is well-versed in the layout and functionality of GatorGoods. While she has no struggles with accessing the site on her phone or laptop, her main concern is that she'll have to spend too much of her study time approving or denying product listings, meaning that she'll have to decide whether or not those product listings violate the terms and agreements users must sign when creating an account. While she enjoys the role of admin, and has performed similar roles on online forums related to her computer science classes, she hopes the process will be streamlined enough so that she can make decisions quickly and efficiently and then get back to her studies. On the first day of her new role of admin, she logs into GatorGoods and sees a notification that there are product listings requiring her approval. After reviewing the first product listing, she decides that it does not break the terms and agreements of the site, and allows it to be posted. When reviewing the second product listing however, it only takes a precursory glance to know it's not allowed on the site, so she opts to immediately delete the listing. That hardly took any time at all! She's relieved to find that moderating content on GatorGoods is as easy as it is efficient! Now back to her studies!

3. List of main data items and entities - data glossary/description

1. Unregistered Users
 - 1.1. Users who have yet to register an account on GatorGoods
2. Registered Users
 - 2.1. Users who have already registered an account with GatorGoods
3. Admin Users
 - 3.1. Registered Users with elevated privileges and are responsible for content moderation on the site
4. Messaging
 - 4.1. User-to-user interactions
5. Product Listing
 - 5.1. Listing belonging to a Registered User in order to sell an item, includes the following fields:
 - 5.1.1. Title
 - 5.1.2. Description
 - 5.1.3. Image

4. Initial list of functional requirements

4.a. Unregistered Users

1. Users shall be able to search items by category
2. Users shall be able to filter search results
3. Users shall be able to browse items by category
4. Users shall be able to register accounts by providing their username, password, and San Francisco State University email address

4.b. Registered Users

1. Users shall have complete functionality of an Unregistered User plus the following:
2. Users shall be able to log into their unique accounts by providing their username and password
3. Users shall be able to modify their account information
4. Users shall be able to create product listings
5. Users shall be able to select from a listing of safe meeting places around the San Francisco State University campus in order to meet with a buyer or seller
6. Users shall be able to delete their product listings
7. Users shall be able to edit their product listings

8. Users shall be able to contact the selling parties of items posted
9. Users who have product listings shall be able to read messages from prospective buyers
10. Users shall be able to report inappropriate content to Admin Users
11. Users shall be able to add items to their favorites list
12. Users shall be able to delete items from their favorites list
13. Users shall be able to see pending notifications and contact requests from other users
14. Users shall be able to see a listing of all their product listings

4.c. Admin Users

1. Users shall have complete functionality of a Registered User, plus the following:
2. Users shall receive notification of pending product listings
3. Users shall be able to moderate content on the site through the following means:
 - 3.1. Deleting a pending product listing which violates the terms and agreements
 - 3.2. Approving a pending product listing which conforms to the terms and agreements

5. List of non-functional requirements

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0 (some may be provided in the class, some may be chosen by the student team but all tools and servers have to be approved by class CTO)
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 and all privacy policies will be appropriately communicated to the users
7. The language used shall be English (no localization needed)
8. Application shall be very easy to use and intuitive
9. Application should follow established architecture patterns
10. Application code and its repository shall be easy to inspect and maintain
11. Google analytics shall be used

12. No e-mail clients shall be allowed. 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 2020. *For Demonstration Only*" at the top of the WWW page. (Important so as to not confuse this with a real application)

6. Competitive Analysis

Feature	Amazon	Ebay	Craigslist	SFSU Bookstore	GatorGoods
Search by Category	++	++	+	+	+
Browse by Category	++	+	+	+	++
Communication between Users	-	+	+	-	+
Save to Favorites	+	+	+	+	+
Report Inappropriate Content	+	+	+	+	+
SFSU Safe Pickup Locations	-	-	-	-	++
Limited to SFSU students/staff	-	-	-	+	++

- = not implemented

+ = implemented

++ = excellent implementation

GatorGoods aims to distinguish itself from its e-commerce competitors by capitalizing on its target demographic of SFSU students and staff, limiting its design approach to a user-friendly, elegant layout, and by making the entire process of buying and selling items as simple as possible, while also providing implementations of the features users are accustomed to seeing on online marketplaces. Despite corporations like Amazon, Ebay, and Craigslist being established and engrained into broader society, they are unable to limit their scope to SFSU customers specifically, which means they are unable to take advantage of tailoring their sites to directly tackle the needs of our potential users. Further, despite the SFSU Bookstore restricting certain items from being sold to the general public, they perform the role of a simple supplier, without capitalizing on the community aspect of the university. GatorGoods not only directly targets the members of that community by restricting outside access to the site, but it also enables users to perform their own transactions between one another. These transactions are limited to pre-specified safe locations around the SFSU campus, ensuring that our users have complete confidence in knowing that they can buy or sell their item without risk and on their own terms. In enabling these interactions, GatorGoods will allow its users to stop paying lofty shipping costs and avoid untimely shipping delays. Moreover, it will help facilitate a greater sense of community for the Gators as a whole.

7. High-level system architecture and technologies used

- Hosting/Server: Amazon Web Services - EC2: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)
- Operating System: Ubuntu Server v18.04
- Database: MySQL v8.0
- Web Server: Node.js v14.8
- Server-Side Language: JavaScript
- Front-end Framework: React
- Web Framework: Express
- CSS Framework: Bootstrap
- IDE: Visual Studio Code, WebStorm

8. Team and roles

- Keith Eastman, Team Lead
- Trenton Smith, GitHub Master | Editor
- Zhuozhuo (Joy) Liu, Front-end Lead
- Yugyeong (YG) Lee, Back-end Lead

9. Checklist

- So far all team members are engaged and attending ZOOM sessions when required | **DONE/OK**
- Team found a time slot to meet outside of the class | **DONE/OK**
- Back-end, Front-end Leads and GitHub Master chosen | **DONE/OK**
- Team decided and agreed together on using the listed SW tools and deployment server | **DONE/OK**
- Team ready and able to use the chosen back and front-end frameworks and those who need to learn are working on learning and practicing | **DONE/OK**
- Team Lead ensured that all team members read the final M1 and agree/understand it before submission | **DONE/OK**
- GitHub organized as discussed in class (e.g. master branch, development branch, folder for milestone documents, etc.) | **DONE/OK**

2.2. M2 (begins next page)

San Francisco State University

SW Engineering CSC648/848 Fall 2020

GatorGoods

Team 08 Global

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Trenton Smith, GitHub Master | Editor

Zhuozhuo (Joy) Liu, Front-end Lead

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In coordination with Fulda University, Germany

Milestone 2

October 15, 2020

Date Submitted	Dates Revised
10/15/2020	10/18/2020

1. Executive Summary

The world has changed rapidly over the past few months as Covid-19 continues to impact the way we live. Obeying local governmental safety protocols, residents have largely chosen to stay home unless absolutely critical. This has given rise to an unparalleled explosion of online shopping. Shoppers have flocked to online outlets in search of everything from groceries to school supplies, and because of this, shipment delays are common. This is where we come in. While GatorGoods cannot fix the problem for everyone, we aim to at least alleviate some of the burden of waiting for those working, studying, and/or living at San Francisco State University (SFSU).

Our goal is to provide an online marketplace specifically designed and limited to students, faculty, and staff at SFSU. We will provide a single, consolidated web application where users can buy and sell items that others attending the university might need (no financial transactions will occur through the site). This includes school supplies, dorm furniture, clothing, and more. Due to our transactions being offered as an in-person meet-up agreement limited to safe spaces around campus, users will know for certain that they can get their supplies on their schedule, and without worrying about unnecessary shipping delays.

Our team is a small but highly dedicated start-up of four current students at SFSU, who will be joining forces with a separate development team from Germany for the latter stages of the project. We are passionate about providing an easy, quick, reliable, and safe way for those of us on and around campus to buy and sell school supplies. Moreover, our ultimate mission is to provide users an opportunity to develop new relationships with their peers, and in doing so, strengthen our great Gator family.

2. List of main data items and entities - data glossary/description

18.Unregistered Users

- 1.1. Users who have yet to register an account on GatorGoods
 - 1.1.1. sessionId

19.Registered Users

- 2.1. Users who have already registered an account with GatorGoods
 - 2.1.1. user_id
 - 2.1.2. username
 - 2.1.3. password
 - 2.1.4. email
 - 2.1.5. message

20.Admin Users

- 3.1. Internal users with access to the database and whom are responsible for content moderation on the site

21.Message

- 4.1. Individual messages specific to a unique user and product listing pair
 - 4.1.1. message_id
 - 4.1.2. buyer
 - 4.1.3. seller
 - 4.1.4. message
 - 4.1.5. time
 - 4.1.6. contact
 - 4.1.7. product

22.Product Listing

- 5.1. Listing belonging to a Registered User in order to sell an item, includes the following fields:
 - 5.1.1. product_id
 - 5.1.2. title
 - 5.1.3. price
 - 5.1.4. description
 - 5.1.5. condition
 - 5.1.6. time
 - 5.1.7. category
 - 5.1.8. user
 - 5.1.9. visible
 - 5.1.10. approval
 - 5.1.11. location

23.Category

- 6.1. A specified type of product listing used for searching and filtering results.
 - 6.1.1. category_id
 - 6.1.2. category_name
 - 6.1.2.1. books
 - 6.1.2.2. electronics
 - 6.1.2.3. furniture
 - 6.1.2.4. other

24.Image

- 7.1. An image is paired with a product listing and uploaded during its creation by a registered user.
 - 7.1.1. image_id
 - 7.1.2. image_blob
 - 7.1.3. product

3. Prioritized list of functional requirements

3.1. Priority 1 - must have

3.1.a. Unregistered Users

1. Users shall be able to browse items by category
2. Users shall be able to search items by category and/or text
3. Users shall be able to filter browse/search results
4. Users shall be able to register accounts by providing their username, password, and San Francisco State University email address

3.1.b. Registered Users

1. Users shall have complete functionality of an Unregistered User plus the following:
2. Users shall be able to log into their unique accounts by providing their username and password
3. Users shall be able to create product listings
4. Users shall be able to select from a listing of safe meeting places around the San Francisco State University campus in order to meet with a buyer or seller
5. Users shall be able to contact the selling parties of product listings
6. Users shall be able to access their dashboard where they can view all their product listings, read messages from prospective buyers, and/or choose to delist a product listing

3.1.c. Admin Users

1. Users must moderate content on the site through the following means:
 - 1.1. Deleting a pending product listing which violates the terms and agreements
 - 1.2. Approving a pending product listing which conforms to the terms and agreements will allow it to be published

3.2. Priority 2 - desired

3.2.a. Unregistered Users

-intentionally blank-

3.2.b. Registered Users

1. Users shall be able to edit their product listings

3.2.c. Admin Users

1. Users shall receive notification of pending product listings

3.3. Priority 3 - opportunistic

3.3.a. Unregistered Users

-intentionally blank-

3.3.b. Registered Users

1. Users shall be able to modify their account information
2. Users shall receive notifications of new chat logs.
3. Users shall be able to add items to their favorites list
4. Users shall be able to delete items from their favorites list
5. Users shall be able to view number of likes per product listing

3.3.c. Admin Users

1. Users shall be able to access a Control Panel to view pending product listings

4. UI Mockups and Storyboards

1. [Buyer] **Jessica** is an incoming freshman attending college for the first time in her life. She's incredibly excited but also extremely nervous because she's never lived on her own before. She's never gone through the process of scheduling college classes, so she doesn't know exactly what school supplies she'll need nor where to find them, and to top it off she doesn't have any dorm supplies either! Further, she barely knows the area surrounding the campus, let alone how the muni system works, so she isn't comfortable venturing into the city by herself yet. One of her suite mates tells her to check out GatorGoods for help getting settled in, so she finds the site on her phone and checks it out. Immediately she notices that there are easily browsable categories. She browses furniture for a bit before noticing a lamp she really likes. She clicks on the picture of the lamp which brings up additional information as well as an option to add the item to her favorites list. She tries to add the lamp to her favorites, but a prompt directs her to first create an account before favoriting an item. After entering her information, she receives notification that her account has been created and then navigates back to the lamp. In that brief moment during registration, Jessica has decided that she actually wants to purchase the lamp as soon as possible, so she messages the user who made the product listing for the lamp with an offer, and hopes they'll respond!

1.a. Homepage (Unregistered User).

GatorGoods All Create Listing Log in

Books Furniture Electronics Others About Team

An online marketplace specifically designed and limited to students, faculty and staff at SFSU

Featured Categories

Books Furniture Electronics Others

Books 45 listings for this category See more

\$60 Brand new \$60 Brand new \$60 Brand new \$60 Brand new

Furniture 45 listings for this category See more

\$60 Brand new \$60 Brand new \$60 Brand new \$60 Brand new

Electronics 45 listings for this category See more

\$60 Brand new \$60 Brand new \$60 Brand new \$60 Brand new

Other 45 listings for this category See more

\$60 Brand new \$60 Brand new \$60 Brand new \$60 Brand new

[Back to Top](#)

1.b. Category Selection

GatorGoods All Create Listing Log in

Books Furniture Electronics Others About Team

Featured Categories

Books Furniture Electronics Others

Furniture 45 listings for this category Sort by: Latest

Subcategory

- Living room
- Bedroom
- Kitchen & Dining
- Bathroom
- Office
- Lighting

Popular Items

- Sofa
- Mattress
- Table
- Chair
- Lamps

Condition

- Brand new
- Very good
- Good
- Acceptable

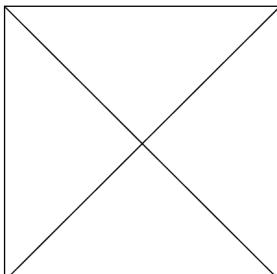
Price

- Under \$20
- \$20 - \$40
- \$40 - \$80
- \$80 - \$100
- \$100 and up

1.c. Product Listing

GatorGoods Create Listing Log in

Books Furniture Electronics Others About Team



Mid Century Modern Mushroom Floor Lamp - from IKEA

\$25

Condition: Very good
Transaction location: Library, Building 1, Building 2

Details:
- Basic Ikea lamp, black base and frosted shade.
- Small dent in the base as pictured.
Clean and works well.

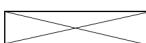
Seller: jellycat10 Posted: 2 hours ago Updated: 1 hour ago
Beware of scams and frauds!

1.d. Lazy Registration

GatorGoods Create Listing Log in

Home Books Furniture Electronics Others

Please log in to contact the seller ×

<p>New users</p> <input style="width: 100%; height: 1.2em; margin-bottom: 5px;" type="text"/> <input style="width: 100%; height: 1.2em; margin-bottom: 5px;" type="text"/> <input style="width: 100%; height: 1.2em; margin-bottom: 5px;" type="text"/>  <p><input type="checkbox"/> I agree with terms and conditions</p> <p><input type="button" value="Create account"/></p>	<p>Registered users</p> <input style="width: 100%; height: 1.2em; margin-bottom: 5px;" type="text"/> <input style="width: 100%; height: 1.2em; margin-bottom: 5px;" type="text"/> <p>Forgot PW?</p> <p><input type="button" value="Log in"/></p>
---	--

Beware of scams and frauds!

1.e. Product Listing - Contact Seller

The screenshot shows a contact form overlaid on a website header. The header includes the logo "GatorGoods", a search bar with dropdown filters ("All"), a magnifying glass icon, a "Create Listing" button, and a user profile icon. Below the header, a navigation menu lists "Home", "Books", "Furniture", "Electronics", and "Others". The main content area contains a form for sending a message to a user named "jellycat10". The form fields are: "Send to" (text input), "Product name" (text input), "Contact info" (text input), and "Message" (text area). At the bottom right of the form are "Cancel" and "Send" buttons. A small note at the bottom left of the form area reads "Beware of scams and frauds!".

GatorGoods All Create Listing

Home Books Furniture Electronics Others

Send to X

Product name

Contact info

Message

Beware of scams and frauds!

2. [Seller] **Nate** is a senior student about to graduate, and has no issues going through the process of finding school supplies and simply waits for professors to state what materials are needed for their classes in person so he doesn't end up purchasing unnecessary items. At this point in his academic career, his main focus is graduating, finding a job, and finding a way to get rid of his dorm furniture that he'll no longer need! He already has a GatorGoods account and has used the site to buy a used textbook last semester, so he's familiar with how the process of buying and selling works and knows he can possibly find buyers for his dorm furniture. He accesses the site on his laptop, logs in, and clicks the link to make a product listing. He decides the first thing he'll list is his old desk chair. GatorGoods takes him step-by-step through the process, having him fill in information about the chair and requesting he upload a picture of it, and then directs Nate to either finalize the listing, or to cancel it. He clicks to submit his listing for review to a site admin, and then logs off. The next day, he logs onto his GatorGoods account and sees his product listing has been accepted, and he can now start receiving messages from interested buyers. Success!

2.a. Homepage (Registered User)

GatorGoods All Create Listing

Books Furniture Electronics Others About Team

An online marketplace specifically designed and limited to students, faculty and staff at SFSU

Featured Categories

Books 45 listings for this category See more

Furniture 45 listings for this category See more

Electronics 45 listings for this category See more

Other 45 listings for this category See more

[Back to Top](#)

2.b. Create Product Listing

GatorGoods Create Listing 

Home Books Furniture Electronics Others

Create a Listing

Posting Title

Description

Upload Images

Category

Price

Brand

Condition

Brand New
 Very Good
 Good
 Acceptable

Transaction Location

Location 1
 Location 2
 Location 3
 Location 4

2.c. My Dashboard - Product Listings

The screenshot shows the 'My Dashboard' page of the GatorGoods website. At the top, there is a navigation bar with the logo 'GatorGoods', a search bar containing 'All' with a dropdown arrow, a magnifying glass icon, and a 'Create Listing' button. To the right of the search bar is a user profile icon. Below the navigation bar, there are links for 'Books', 'Furniture', 'Electronics', 'Others', 'About Team', and a user profile icon. The main content area is titled 'My Dashboard'. On the left, there is a sidebar with two items: 'Product Listings' and 'Messages'. The 'Product Listings' item is highlighted with a grey background. The main content area displays a single product listing card. The card has a 'Delist' button and an 'Edit' button at the top. Below these buttons is a placeholder image with a large 'X' through it. Underneath the image, the price '\$60' and the condition 'Brand new' are displayed. There are also two empty lines for additional text.

3. [Seller] **Professor Anderson** is a tenured and dedicated geography professor at SFSU. He loves teaching, and is always excited to greet the students in his new classes. However, he's decidedly less enthusiastic about cutting down trees to print new textbooks for courses that haven't changed their content from the previous semester. This, combined with the fact that he just recently received news that his new course was approved for lecture and will be offered next semester, means that he was in the perfect position to give his previous class' textbook a new home. Despite not being tech-savvy, Professor Anderson has found the process of registering an account with GatorGoods and making a product listing for his old textbook easy, even for him. One day between classes, he sits down in front of the aging desktop computer in his office and opens his browser to GatorGoods, where he logs into his account. He checks the status of his product listing, and sees that some interested users have recently messaged him with potential offers. He reads their offers and decides that he will accept one which seems like a fair price. The next day after meeting with the buyer in-person and selling his textbook, he goes back to his office happy that no trees had to be culled for his old class, and marks his product listing as sold so that he stops receiving notifications of offers for the textbook he no longer owns.

3.a. Homepage + Profile Options

The wireframe illustrates the GatorGoods homepage layout. At the top, there's a navigation bar with 'GatorGoods' logo, a search bar, and links for 'Create Listing', 'My Dashboard', and 'Sign out'. Below the navigation is a descriptive banner: 'An online marketplace specifically designed and limited to students, faculty and staff at SFSU'. The main content area features 'Featured Categories' with four boxes: Books, Furniture, Electronics, and Others, each represented by a square icon with a diagonal cross and a small heart in the top right corner.

Books 45 listings for this category [See more](#)

Four listing cards for Books, each showing a square icon with a diagonal cross and a small heart, followed by the price '\$60' and the condition 'Brand new'.

Furniture 45 listings for this category [See more](#)

Four listing cards for Furniture, each showing a square icon with a diagonal cross and a small heart, followed by the price '\$60' and the condition 'Brand new'.

Electronics 45 listings for this category [See more](#)

Four listing cards for Electronics, each showing a square icon with a diagonal cross and a small heart, followed by the price '\$60' and the condition 'Brand new'.

Other 45 listings for this category [See more](#)

Four listing cards for Other items, each showing a square icon with a diagonal cross and a small heart, followed by the price '\$60' and the condition 'Brand new'.

At the bottom of the page is a 'Back to Top' link.

3.b. My Dashboard - Product Listings

The screenshot shows the GatorGoods website interface. At the top, there is a navigation bar with links for Books, Furniture, Electronics, Others, About Team, and a Create Listing button. A search bar is also present. On the left side, there is a sidebar with 'Product Listings' and 'Messages' options. The main content area displays a product listing for a lamp. The listing includes a placeholder image with a large 'X' over it, a 'Delist' button, an 'Edit' button, the price '\$60', and the status 'Brand new'. Below the listing, there are two empty lines for additional details.

3.c. My Dashboard - Messages

The screenshot shows the GatorGoods website interface, similar to the previous one but with a different focus. It features a sidebar with 'Product Listings' and 'Messages' options. The main content area displays three messages from a user named 'sfhgg12' sent on Aug. 12. Each message says, 'You: Hi, the lamp is \$30 dollars, made in U.S.' followed by a delete icon. The messages are listed vertically.

4. [Admin] **Julie** is a computer science major in her third year at San Francisco State University who's recently accepted an admin role for GatorGoods. She knows computers and technology like the back of her hand, and is well-versed in the layout and functionality of GatorGoods. While she has no struggles with accessing the site on her phone or laptop, her main concern is that she'll have to spend too much of her study time approving or denying product listings, meaning that she'll have to decide whether or not those product listings violate the terms and agreements users must sign when creating an account. While she enjoys the role of admin, and has performed similar roles on online forums related to her computer science classes, she hopes the process will be streamlined enough so that she can make decisions quickly and efficiently and then get back to her studies. On the first day of her new role of admin, she logs into GatorGoods and sees a notification that there are product listings requiring her approval. After reviewing the first product listing, she decides that it does not break the terms and agreements of the site, and allows it to be posted. When reviewing the second product listing however, it only takes a precursory glance to know it's not allowed on the site, so she opts to immediately delete the listing. That hardly took any time at all! She's relieved to find that moderating content on GatorGoods is as easy as it is efficient! Now back to her studies!

4.a. Homepage + Admin Options

The wireframe illustrates the GatorGoods homepage layout. At the top, there's a header with the logo 'GatorGoods' and a search bar. Below the header, a navigation menu includes 'Books', 'Furniture', 'Electronics', 'Others', 'About Team', 'Admin Dashboard', and 'Sign out'. A descriptive banner states: 'An online marketplace specifically designed and limited to students, faculty and staff at SFSU'. The main content area is divided into 'Featured Categories' (Books, Furniture, Electronics, Others) and individual category sections (Books, Furniture, Electronics, Other). Each category section shows a grid of items, each with a price (\$60), condition ('Brand new'), and a 'See more' link.

Admin Dashboard

An online marketplace specifically designed and limited to students, faculty and staff at SFSU

Featured Categories

Books 45 listings for this category See more

Furniture 45 listings for this category See more

Electronics 45 listings for this category See more

Other 45 listings for this category See more

Back to Top

4.b. Admin Dashboard - Pending Listings

The screenshot shows the GatorGoods Admin Dashboard. At the top, there is a navigation bar with links for Home, Books, Furniture, Electronics, and Others. Below the navigation bar, there are two tabs: "Admin Dashboard" (which is selected) and "Settings". A search bar and a user profile icon are also present at the top right.

The main content area displays two pending listings under the heading "Waiting for approval". Each listing includes a placeholder image (a square with a large 'X' through it), the price (\$60), and the condition ("Brand new"). There is also a section for additional details, which is currently empty.

4.c. Pending Listing - Approve/Deny

The screenshot shows a pending listing for a "Mid Century Modern Mushroom Floor Lamp - from IKEA". The listing includes the following details:

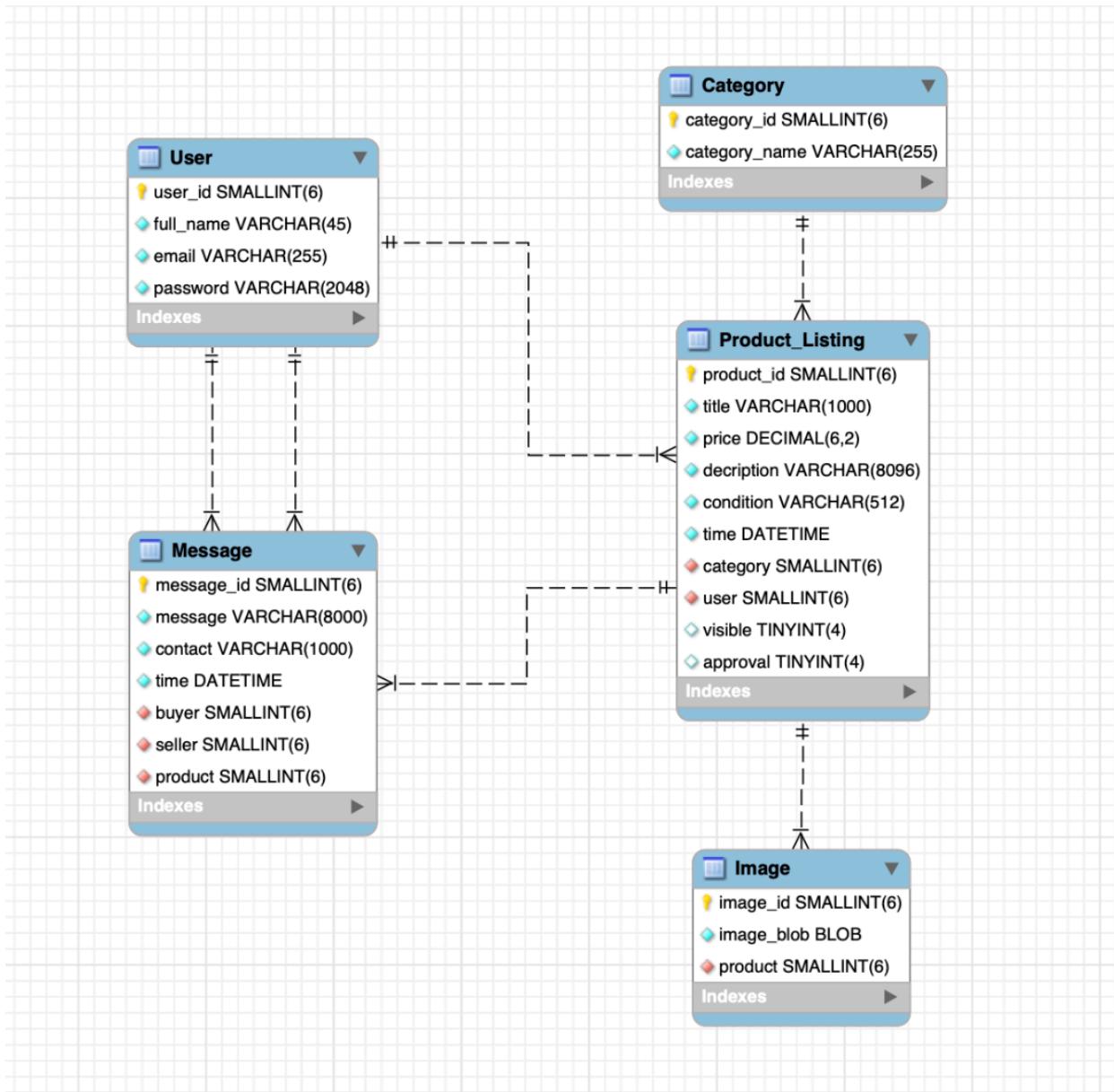
- Image:** A placeholder image showing a lamp with a large, rounded, mushroom-shaped shade.
- Title:** Mid Century Modern Mushroom Floor Lamp - from IKEA
- Price:** \$25
- Condition:** Very good
- Transaction location:** Library, Building 1, Building 2
- Details:**
 - Basic Ikea lamp, black base and frosted shade.
 - Small dent in the base as pictured.
 - Clean and works well.
- Buttons:** "Deny" and "Approve" buttons.
- Contact seller:** A button labeled "Contact seller" with five small placeholder icons below it.

At the bottom of the listing, there is information about the seller and posting details:

Seller: jellycat10 Posted: 2 hours ago Updated: 1 hour ago
Beware of scams and frauds!

5. High-level Architecture, Database Organization

5.1. Database Organization



5.2. Media Storage

1. Images will be stored as BLOBS in our MySQL database.

5.3. Search & Filter Implementation

3. Search will be conducted through %like.
4. Filtering will be based upon specified price, category, brand, and/or condition through the use of basic SQL.

5.4. Additional APIs

1. Create Product Listing
2. Retrieve Product Listing
3. Create Chat Log
4. Retrieve Chat Log
5. Upload Image
6. Retrieve Image
7. Register User
8. Authenticate User
9. Register Admin User
10. Authenticate Admin User
11. Approve Product Listing
12. Deny Product Listing

6. Key Risks

At this time, we do not anticipate any skill, schedule, teamwork, or legal risks within our local division. We do however, foresee that a lack of MySQL familiarity might impact our ability to meet database-specific deadlines should we encounter issues.

In addition to our local risk, we anticipate that coordinating with Fulda University, Germany might become a major hurdle down the line.

7. Project Management

We are using Trello to track tasks as well as keeping an active Discord server in which our members are in constant communication. For the storyboarding, we are implementing a shared project in Figma. As we are starting shorthanded compared to the other groups, we are still assigning tasks based on their content, e.g. front-end tasks are designated as such, and back-end tasks are sent to the back-end; however, our Team Leader and GitHub Master are functioning as flex operators, filling in and providing additional help as needed. Further, due to our small size, while a task may be

assigned to a specific lead, should they request additional help, all members are free to contribute where possible.

2.3. M3 Summary Report and Plans (begins next page)

San Francisco State University

SW Engineering CSC648/848 Fall 2020

GatorGoods

Team 08 Global

Keith Eastman, Team Lead || keastman@mail.sfsu.edu

Trenton Smith, GitHub Master | Editor

Zhuozhuo (Joy) Liu, Front-end Lead

Yugyeong (YG) Lee, Back-end Lead

In coordination with Fulda University, Germany

Milestone 3: Review Summary and Plans

Date of Review: November 16, 2020

Date Submitted	Dates Revised
11/20/2020	n/a

1. Feedback Summary & Tasks to Complete

1.1. UI & Functional Requirements

1.1.a. Homepage & Navbar

1. Search must also return results based on item description
2. Add “Other” category to search bar dropdown
3. Add loading widget for slow load times in-between results or view switches
4. Add “Post Item” label to [+] button in navbar
5. Reposition search bar to center of navbar
6. Reposition category listings to under search bar
7. Reposition “About Team” link to righthand side

1.1.b. Category & Search Results

1. Search bar must reflect current category if on a category result page
2. Remove “Featured Categories” widget from category result pages (keep only on homepage)
3. Remove filter column from lefthand side -> combine with existing Sort dropdown
4. Sort Options: Price: low to high, Price: high to low, Condition
5. Product Listing rows should be 4-across

1.1.c. Product Listing Cards & Views

1. Include a “Contact Seller” button on cards (not just after routing to product listing view)
2. Clicking on any product listing card should reroute the user to a new, unique

tab

3. Use thumbnails for product listing cards and only render full sized images after routing to a product listing view
4. After clicking “Contact Seller”, pre-fill basic product listing information
 - 4.1. Increase spacing between “Close” and “Send Message” buttons

1.1.d. Create Listing

1. Resize option selections to widths corresponding to the length of expected data
2. Add disclaimer: “Product Listings may take up to 24 hours for approval” as well as confirmation after submission

1.1.e. Dashboard and Log In

1. Add a “Forgot Password?” link to the log in (does not need to be routed)
2. Display user’s email on their individual dashboard view
3. Display total number of product listings
4. Use a table for dashboard messages display. Include: Product ID, email, date, number of messages, and any messages (if any), as well as an option to sort by each column

1.2. Github Usage and Code Formatting

1.2.a. Github Usage

1. Organize file structure of application into segmented files specific to their corresponding component
2. Commit messages need to be more specific and detailed

1.2.b. Code Formatting

1. Include Owner designation for files
2. Include header comments
3. Expand inline comments if needed for complex code segments

2. Tasks chosen for final delivery in order of importance

1. Implement user-to-user messaging
2. Implement create listing w/BLOB's
3. Implement sort functionality to product listings
4. Update user dashboard to include table
5. Update routing to include unique views per product listing
6. Add/update additional functionality specified during feedback
7. Add/update additional styling specified during feedback

3. Finalized P1 Functional Requirements

3.1. Unregistered Users

1. Users shall be able to browse items by category
2. Users shall be able to search items by category and/or text
3. Users shall be able to filter browse/search results
4. Users shall be able to register accounts by providing their username, password, and San Francisco State University email address

3.2. Registered Users

1. Users shall have complete functionality of an Unregistered User plus the following:
 2. Users shall be able to log into their unique accounts by providing their username and password

3. Users shall be able to create product listings
4. Users shall be able to select from a listing of safe meeting places around the San Francisco State University campus in order to meet with a buyer or seller
5. Users shall be able to contact the selling parties of product listings
6. Users shall be able to access their dashboard where they can view all their product listings, read messages from prospective buyers, and/or choose to delist a product listing

3.3. Admin Users

1. Users must moderate content on the site through the following means:
 - 1.1. Deleting a pending product listing which violates the terms and agreements
 - 1.2. Approving a pending product listing which conforms to the terms and agreements will allow it to be published

2.4. M4 (begins next page)

San Francisco State University

SW Engineering CSC648/848 Fall 2020

GatorGoods

Team 08 Global

Keith Eastman, Team Lead || keastman@mail.sfsu.edu

Trenton Smith, GitHub Master | Editor

Zhuozhuo (Joy) Liu, Front-end Lead

Yugyeong (YG) Lee, Back-end Lead

In coordination with Fulda University, Germany

Milestone 4

December 8, 2020

Date Submitted	Dates Revised
12/08/2020	12/10/2020

1. Product Summary

- **Name:** GatorGoods
- **Coordination:** GatorGoods is developed by a joint Global team comprised of students from San Francisco State University, CA, and Fulda University, Germany.
- **URL:** <http://ec2-54-153-71-183.us-west-1.compute.amazonaws.com:5000/>
- **Committed Function List:**
 - **Unregistered Users**
 1. Users shall be able to browse items by category
 2. Users shall be able to search items by category and/or text
 3. Users shall be able to filter browse/search results
 4. Users shall be able to register accounts by providing their username, password, and San Francisco State University email address
 - **Registered Users**
 1. Users shall have complete functionality of an Unregistered User plus the following:
 2. Users shall be able to log into their unique accounts by providing their username and password
 3. Users shall be able to create product listings
 4. Users shall be able to select from a listing of safe meeting places around the San Francisco State University campus in order to meet with a buyer or seller (unique to GatorGoods)
 5. Users shall be able to contact the selling parties of product listings
 6. Users shall be able to access their dashboard where they can view all their product listings, read messages from prospective buyers, and/or choose to delist a product listing
 - **Admin Users**
 1. Users must moderate content on the site through the following means:
 - 1.1. Deleting a pending product listing which violates the terms and agreements (Fulda team responsible)
 - 1.2. Approving a pending product listing which conforms to the terms and agreements will allow it to be published (Fulda team responsible)

2. Usability Test Plan

2.1. Test Objectives

The feature that we selected to test is search. The goal of the usability testing is assessment - to evaluate the usability of a basic but fundamental feature. In specific, the purpose of the usability testing is to measure the effectiveness, efficiency, and

satisfaction of the users regarding the feature. The results will help us gain knowledge on how well the search feature is implemented and if needed, insight into how to potentially replan our product road map.

2.2. Test Background and Setup

- **System setup:** The website shall be able to run on browsers including Google Chrome and Safari.
- **Starting point:** Users should start from the homepage of GatorGoods while on Chrome or Safari. We will then ask the user to search for “used chairs” without giving them any further instruction.
- **Intended users:** We shall recruit 10 participants comprised of SFSU students, faculties and staff. The number of participants in each category (student, faculty, and staff) must be no less than 3.
- **URL:** <http://ec2-54-153-71-183.us-west-1.compute.amazonaws.com:5000/> Since we are starting from the home page, this is the starting URL as well.
- **What is to be measured:** We will measure the time duration in which users complete the task, the number of users who completed or didn’t complete the task, and user satisfaction.

2.3. Usability Task Description

- **Scenario:** You’ve heard that GatorGoods is an online marketplace for SFSU students, so you open your web browser of choice (either Chrome or Safari) and navigate to its homepage. Once there, you decide to search for used chairs...

Task:	Search GatorGoods for used chairs.
Prompt:	Given the above task, what would your action be? Please take your action.
Machine state:	Search results properly loaded.
Successful completion criteria:	Return all 4 product listings for chairs on the search results page.
Benchmark:	Completed in 10 seconds.

- **Effectiveness:**

The criteria of successful completion is to “return all 4 product listings for chairs on the search results page”. We have two metrics to measure the effectiveness of the search feature.

1. The percentage of participants who complete the task in 10 seconds.
2. The average number of errors each participant makes.

- **Efficiency:**

The criteria of successful completion is to “return all 4 product listings for chairs on the search results page”. We have two metrics to measure the efficiency of the search feature.

1. Average number of clicks it took users who successfully completed the task.
2. Amongst those who successfully completed the task, measure the average time it took for completion.

- **Satisfaction:**

To measure user satisfaction, we have a Likert scale with 3 survey questions, and an additional open-ended question to collect qualitative feedback.

1. To what extent do you agree with the following statement:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I was able to locate the searchbar easily.					
I was able to search for the desired listings.					
I would have no trouble using the searchbar to find further listings.					

2. (Optional) Was there anything in your search process we could improve? If so, what?

3. QA Test Plan

- **Test objectives:** Assessing if search performs as per specs.
- **HW and SW setup (including URL):**
 - Hardware: MacOS
 - Software:
 - AWS EC2 instance running Ubuntu Server 18.04

- Browsers: Chrome, Safari
- URL: <http://ec2-54-153-71-183.us-west-1.compute.amazonaws.com:5000/>
- **Feature to be tested:** Search
- **QA Test plan - table format:**

Test #	Test Title	Test Description	Test Input	Expected Correct Output	Test Results
1	Fuzzy Search	Testing if correct results display after a text search without selecting a category	Type "human" into the searchbar without selecting a category	A single product listing for "Humans" will be returned	Chrome: PASS Safari: PASS
2	Max Character	Testing if the searchbar will allow a text string over 40 characters to be entered	Attempt to type a string longer than 40 characters into the searchbar	The string will not be accepted as a valid search parameter	Chrome: PASS Safari: PASS
3	Category Search	Testing if a specific text AND category search will return results when there are no matches	Type "human" into the searchbar after selecting "Furniture" from the category dropdown	No product listings will be returned and the view will specify "0 Results" for the search	Chrome: PASS Safari: PASS

4. Code Review

4.1. Email Chain

Zhuozhuo Liu  8:04 PM
CodeReview_SearchBox Details ZL

To: Trenton Smith, Cc: Keith Alan Eastman, YG Lee

All,
Please see the attached text file containing the code for SearchBox.js.

Talking:

Thank you.

Joy

 SearchBox.rtf

Found in Sent - trentonsmith650@gmail.com Mailbox 

Trenton Smith  8:10 PM
Re: CodeReview_SearchBox TS

To: Zhuozhuo Liu

 SearchBox_Rev
sed.rtf

Hi Joy!

Thanks for submitting your code for review!

Please see the file for the review!

Trenton

[See More from Zhuozhuo Liu](#)

4.2. Initial Document

4.2.1. Part A

```

import React, { useState, useEffect } from "react";
import { useHistory } from "react-router-dom";
import axios from "axios";
import { Button, InputGroup, FormControl, Form } from "react-bootstrap";

export default function Searchbox() {
  const [searchTerm, setSearchTerm] = useState("");
  const [category, setCategory] = useState("");
  const [productListings, setProductListings] = useState([]);
  const history = useHistory();

  // useEffect(() => {
  //   const getListings = () => {
  //     axios
  //       .post("/api/search/searchProducts", {
  //         searchTerm: searchTerm,
  //         category: category,
  //       })
  //       .then((response) => {
  //         // console.log(response.data);
  //         setProductListings(response.data);
  //       });
  //   };
  //   getListings();
  //   // console.log(searchTerm);
  // }, [searchTerm, category]);

  const handleCategoryChange = (e) => {
    setCategory(e.target.value);
  };

  const handleInputChange = (e) => {
    setSearchTerm(e.target.value);
  };

  // onSearch -> redirect to result page
  const onSearch = () => {
    history.push("/searchresults", {
      // productListings: productListings,
      category: category.valueOf(),
      searchTerm: searchTerm,
    });
  };
}

return (
  <div>
    /* Search Bar */
    <InputGroup className="mx-auto" >
      <Form.Group style={{ width: "8rem" }}>
        <Form.Control
          as="select"
          name="category"
          value={category}
          onChange={handleCategoryChange}
        >
          <option value="">Category</option>
          <option value="1">Books</option>
          <option value="2">Furniture</option>
        </Form.Control>
      </Form.Group>
    </InputGroup>
  </div>
)

```

4.2.2. Part B

```

const handleCategoryChange = (e) => {
  setCategory(e.target.value);
};

const handleInputChange = (e) => {
  setSearchTerm(e.target.value);
};

// onSearch -> redirect to result page
const onSearch = () => {
  history.push("/searchresults", {
    // productListings: productListings,
    category: category.valueOf(),
    searchTerm: searchTerm,
  });
};

return (
  <div>
    {/* Search Bar */}
    <InputGroup className="mx-auto" >
      <Form.Group style={{ width: "8rem" }}>
        <Form.Control
          as="select"
          name="category"
          value={category}
          onChange={handleCategoryChange}
        >
          <option value="">Category</option>
          <option value="1">Books</option>
          <option value="2">Furniture</option>
          <option value="3">Electronics</option>
        </Form.Control>
      </Form.Group>

      <Form.Group inline style={{ width: "15rem" }}>
        <FormControl
          placeholder="Search.."
          className="mr-sm-2"
          maxLength="30"
          value={searchTerm}
          onChange={handleInputChange}
        />
      </Form.Group>

      <Form.Group>
        <InputGroup.Append>
          <Button variant="outline-secondary" onClick={onSearch}>
            Search
          </Button>
        </InputGroup.Append>
      </Form.Group>
    </InputGroup>
  </div>
);
}

```

4.3. Revised Document

4.3.1. Part A

```

import React, { useState, useEffect } from "react";
import { useHistory } from "react-router-dom";
import axios from "axios";
import { Button, InputGroup, FormControl, Form } from "react-bootstrap";

//Don't forget to include the header comment - see our discord for the specified format
//at the least it should contain the file name, purpose, and author.

export default function Searchbox() {
  //good job at initializing the constants at the top of the code
  //also nice consistency in naming
  const [searchTerm, setSearchTerm] = useState("");
  const [category, setCategory] = useState("");
  const [productListings, setProductListings] = useState([]);
  const history = useHistory();

  //If you submit commented-out code, please provide a brief description of...
  //why it is still needed or what its purpose is e.g. "testing purposes"
  //useEffect(() => {
  //  const getListings = () => {
  //    axios
  //      .post("/api/search/searchProducts", {
  //        searchTerm: searchTerm,
  //        category: category,
  //      })
  //      .then((response) => {
  //        // console.log(response.data);
  //        setProductListings(response.data);
  //      });
  //  };
  //  getListings();
  //  // console.log(searchTerm);
  //}, [searchTerm, category]);

  const handleCategoryChange = (e) => {
    setCategory(e.target.value);
  };

  //Suggestion: provide a more specific function title consistent with declared state e.g. handle"SearchTerm"Change
  const handleInputChange = (e) =>
    setSearchTerm(e.target.value);
  };

  // onSearch -> redirect to result page //like the use of comment explaining feature
  const onSearch = () => {
    history.push("/searchresults", {
      // productListings: productListings,
      category: category.valueOf(),
      searchTerm: searchTerm,
    });
  };

  return (
    <div>
      /* Search Bar */ //like the use of comments labeling sections of code
      <InputGroup className="mx-auto" >
        <Form.Group style={{ width: "8rem" }}>
          <Form.Control
            ...
          </Form.Control>
        </Form.Group>
      </InputGroup>
    </div>
  );
}


```

4.3.2. Part B

```

    setCategory(e.target.value);
};

//Suggestion: provide a more specific function title consistent with declared state e.g. handle"SearchTerm"Change
const handleInputChange = (e) =>
  setSearchTerm(e.target.value);
};

// onSearch -> redirect to result page //like the use of comment explaining feature
const onSearch = () => {
  history.push("/searchresults", {
    // productListings: productListings,
    category: category.valueOf(),
    searchTerm: searchTerm,
  });
};

return (
  <div>
    {/* Search Bar */} //like the use of comments labeling sections of code
    <InputGroup className="mx-auto" >
      <Form.Group style={{ width: "8rem" }}>
        <Form.Control
          as="select"
          name="category"
          value={category}
          onChange={handleCategoryChange}>
          <option value="">Category</option>
          <option value="1">Books</option>
          <option value="2">Furniture</option>
          <option value="3">Electronics</option>
          //be sure to include an option for "other" w/value 4
        </Form.Control>
      </Form.Group>

      <Form.Group inline style={{ width: "15rem" }}>
        <FormControl
          placeholder="Search.."
          className="mr-sm-2"
          maxLength="30" //should be 40 per reqs.
          value={searchTerm}
          onChange={handleInputChange}>
        </Form.Control>
      </Form.Group>

      <Form.Group>
        <InputGroup.Append>
          <Button variant="outline-secondary" onClick={onSearch}>
            Search
          </Button>
        </InputGroup.Append>
      </Form.Group>
    </InputGroup>
  </div>
);
}

```

5. Self-check: Security Best Practices

Asset	Value	Exposure
User Data	High	High, harm to reputation
Database	High	High, Loss of data, Compromise of server
Server	High	High, harm to reputation, loss of customers due to downtime

Threat and Control Analysis

Threat	Probability	Control	Feasibility
Unauthorized user gains access to confidential data	High	<ol style="list-style-type: none"> 1. Input validation 2. Limit search queries to 40 characters 3. Authenticate users with encrypted tokens 4. <u>Encrypt passwords in database</u> 5. Images are stored as BLOBS in database 	Moderate cost, moderately difficult implementation
Unauthorized user makes system unavailable	Low	<ol style="list-style-type: none"> 1. Host server on virtual machine 	Low cost, simple
Unauthorized content is uploaded by users	High	<ol style="list-style-type: none"> 1. Require product listings to be vetted by administrator 	Low cost, simple
Fake Accounts	High	<ol style="list-style-type: none"> 1. <u>Require a valid SFSU email address for new users</u> 	Low cost, simple

6. Self-check: Adherence to Original Non-Functional Specs

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0 (some may be provided in the class, some may be chosen by the student team but all tools and servers have to be approved by class CTO)
ON TRACK
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of two major browsers
ON TRACK
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
ON TRACK
5. No more than 50 concurrent users shall be accessing the application at any time
ON TRACK
6. Privacy of users shall be protected and all privacy policies will be appropriately communicated to the users
ON TRACK
7. The language used shall be English (no localization needed)
ON TRACK
8. Application shall be very easy to use and intuitive
ON TRACK
9. Application should follow established architecture patterns
ON TRACK
10. Application code and its repository shall be easy to inspect and maintain
ON TRACK
11. Google analytics shall be used
ON TRACK
12. No e-mail 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
ON TRACK
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

ON TRACK

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 2020. For Demonstration Only*" at the top of the WWW page. (Important so as to not confuse this with a real application)

DONE

3. Product Screen Shots

3.1. Homepage

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

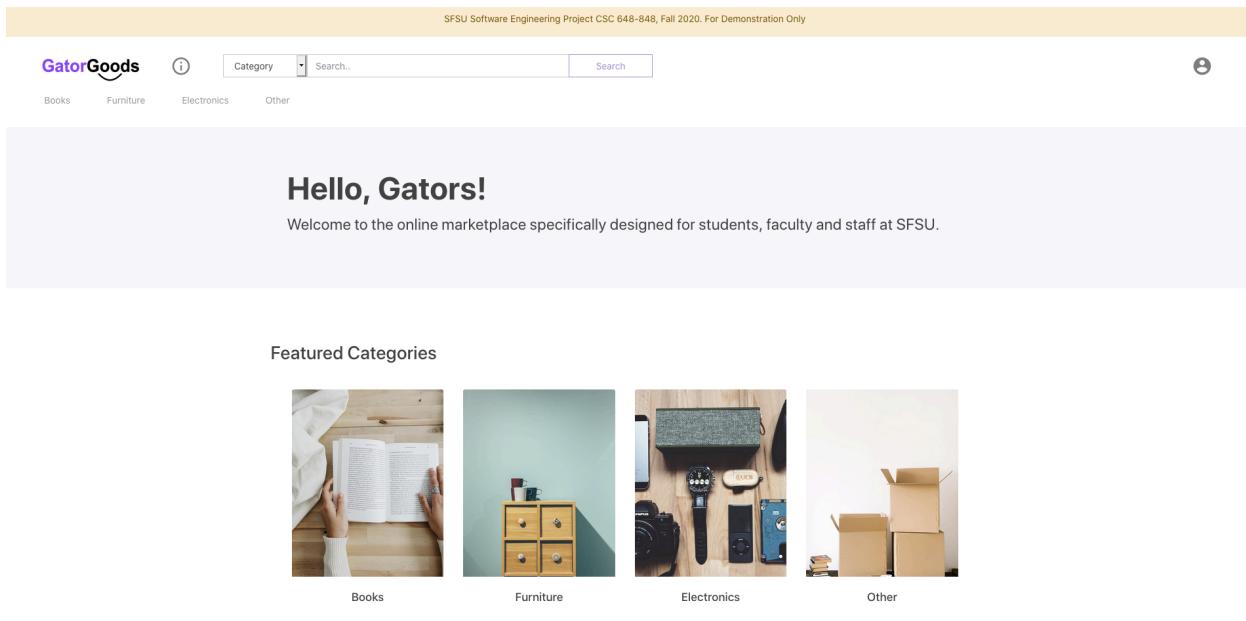
GatorGoods Category Search.. Books Furniture Electronics Other

Hello, Gators!

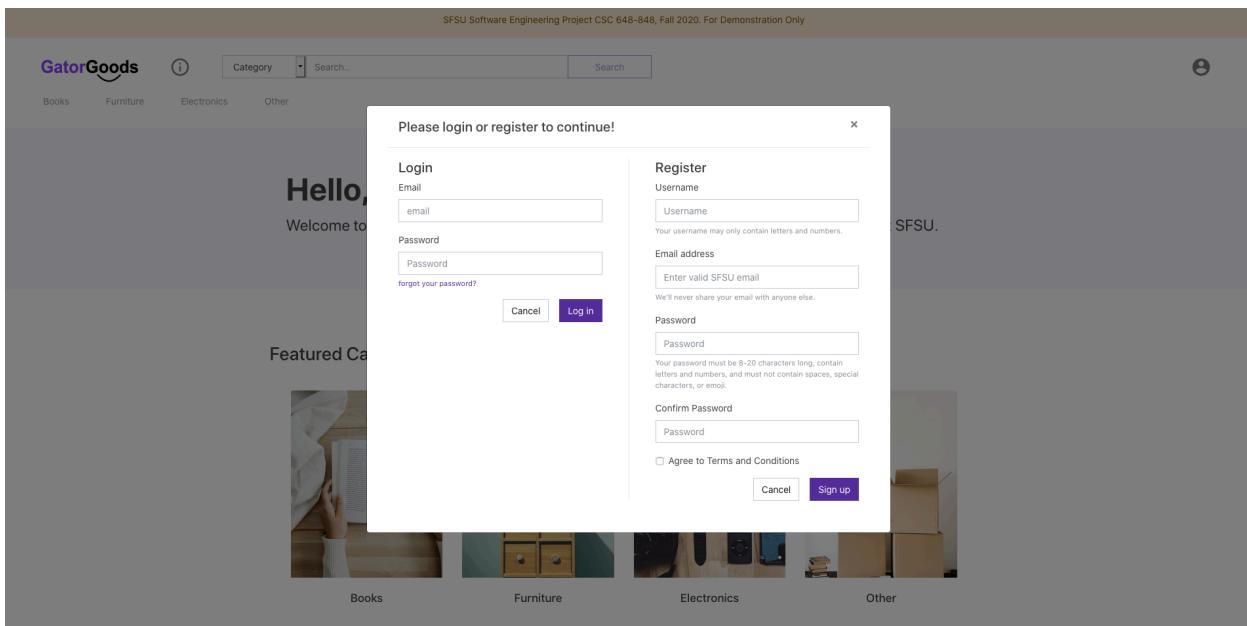
Welcome to the online marketplace specifically designed for students, faculty and staff at SFSU.

Featured Categories

Books Furniture Electronics Other

The screenshot shows the homepage of the GatorGoods website. At the top, there's a navigation bar with the logo 'GatorGoods', a search bar, and category links for Books, Furniture, Electronics, and Other. Below the header, a large banner displays the text 'Hello, Gators!' and 'Welcome to the online marketplace specifically designed for students, faculty and staff at SFSU.' Underneath the banner, there's a section titled 'Featured Categories' with four sub-sections: 'Books' (showing a person reading a book), 'Furniture' (showing a wooden cabinet), 'Electronics' (showing various electronic devices like a camera and a smartphone), and 'Other' (showing stacked cardboard boxes). The overall design is clean and modern.

3.2. Login / Register Modal



3.3. Books Category

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

GatorGoods Category Search.. Sort by ▾

Books Furniture Electronics Other

Books

6 listings found

Image	Title	Price	Condition	Description
	A Wealth of Pigeons	\$20	Like New	Cartoons created by comedian and actor Steve Martin and famed cartoonist Harry Bliss.
	A Promised Land	\$30	Like New	An intimate portrait of the 44th president of the United States, and his outlook on democr...
	Calculus Early Transcendentals 3rd edt	\$5	Very Good	A little outdated for classes but still a great resource!
	FUNDAMENTALS OF ENGLISH GRAMMAR	\$7	Very Good	Standard english textbook.
	COMPUTER SCIENCE AN OVERVIEW			
	CHEMISTRY THE CENTRAL SCIENCE			

3.4. Furniture Category

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

GatorGoods Category Search.. Books Furniture Electronics Other

Furniture 9 listings found Sort by ▾

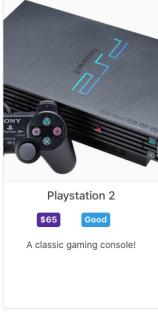
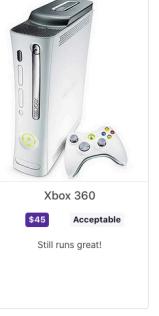
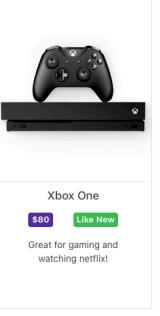
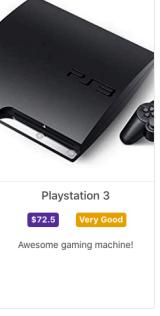
Image	Name	Price	Condition	Description
	Computer Chair	\$25	Good	Very comfortable chair great for dorms!
	Office Chair	\$15.5	Good	Basically brand new! Very comfortable!
	Desk Chair	\$15	Acceptable	Not very comfortable but it's small enough to fit tight spaces.
	Gaming Chair	\$15.5	Acceptable	This chair is so amazing! Super comfortable for gaming or homework!

3.5. Electronics Category

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

GatorGoods Category Search.. Books Furniture Electronics Other

Electronics 8 listings found Sort by ▾

 <p>Playstation 2 \$65 Good A classic gaming console!</p>	 <p>Xbox 360 \$45 Acceptable Still runs great!</p>	 <p>Xbox One \$60 Like New Great for gaming and watching netflix!</p>	 <p>Playstation 3 \$72.5 Very Good Awesome gaming machine!</p>
			

3.6. Other Category

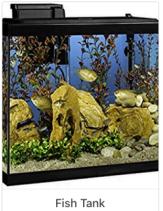
SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

GatorGoods  Category  Search... 

Books Furniture Electronics Other

Other  Sort by ▾

4 listings found

 <p>Bundle of Office Supplies \$15 </p> <p>Comes with paper, writing utensils, ruler, calculator, and a binder!</p>	 <p>Nerf Gun \$12 </p> <p>This baby rockets 5 darts per clip nearly 20ft! Excellent for nerf wars!</p>	 <p>Fish Tank \$15 </p> <p>20" L 10" W 15" H</p>	 <p>sanitizer \$12 </p> <p>good for you</p>
---	--	--	--

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3.7. About Page

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

GatorGoods Category Search... Books Furniture Electronics Other

Software Engineering class SFSU
Fall 2020
Team 8

Role	Name	Bio	Learn more
TEAM LEAD	Keith Eastman	I'm a student veteran with a passion for moving fast and breaking things.	Learn more
BACK-END LEAD	Yugyeong (YG) Lee	I am a senior student majoring in Computer Science at San Francisco State University.	Learn more
FRONT-END LEAD	Zhuozhuo (Joy) Liu	I am a master student majoring in Computer Science at SFSU. I love my cat.	Learn more
GITHUB MASTER EDITOR	Trenton Smith	I'm a military veteran, Computer Science major, and avid learner devoted to personal growth.	Learn more

3.8. Search Results

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

GatorGoods Category Search

Books Furniture Electronics Other

Results for "xbox"

2 listings found Sort by ▾

	
Xbox 360 \$45 Acceptable Still runs great!	Xbox One \$80 Like New Great for gaming and watching netflix!

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3.9. Search Results (Fuzzy)

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

GatorGoods

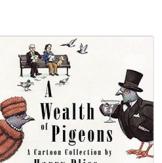
Category: xboxawwadawdawd

Search

Books Furniture Electronics Other

Results for "xboxawwadawdawd"

18 listings found Sort by ▾



A Wealth of Pigeons
A Cartoon Collection by Harry Bliss and Steve Martin

\$20 Like New

Cartoons created by comedian and actor Steve Martin and famed cartoonist Harry Bliss.

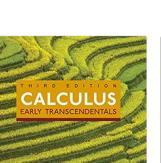


BARACK

A Promised Land

\$30 Like New

An intimate portrait of the 44th president of the United States, and his outlook on democracy...



Calculus Early Transcendentals
EARLY TRANSCENDENTALS

\$5 Very Good

A little outdated for classes but still a great resource!



FUNDAMENTALS OF ENGLISH GRAMMAR
Third Edition

\$10 With Answer Key

Betty Schrampf Azar

English Grammar 3rd edition

\$7 Very Good

Standard english textbook.



J. GLENN BROOKSHEAR • DENNIS BRYLOW

COMPUTER SCIENCE AN OVERVIEW

10th Edition



J. GLENN BROOKSHEAR • DENNIS BRYLOW

COMPUTER SCIENCE AN OVERVIEW

10th Edition



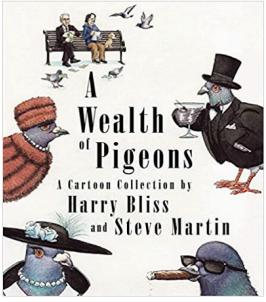


3.10. Product Listing

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

GatorGoods Category Search.. Search

Books Furniture Electronics Other

A Wealth of Pigeons
\$20

Condition: Like New
Transaction location: Library
Details: Cartoons created by comedian and actor Steve Martin and famed cartoonist Harry Bliss.

Contact seller

Beware of scams and frauds.

CSC 648-848 Global Team © 2020
All images are free images from Pixel.com

3.11. My Dashboard (Listings)

SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

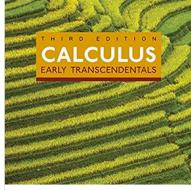
GatorGoods  Category  Search.. 

Books Furniture Electronics Other   

My Dashboard Account: zliu15@mail.sfsu.edu

Listings  Messages

You have 5 listings

 <p>Calculus Early Transcendentals 3rd edt A little outdated for classes but still a great resource!</p> <p>\$5 </p>	 <p>Fluffy Rug It's so fluffy!</p> <p>\$6.5 </p>	 <p>Samsung Galaxy S9 A little old but in great condition! Battery is excellent and the display is bright!</p> <p>\$80 </p>
--	--	---

3.12. My Dashboard (Messages)

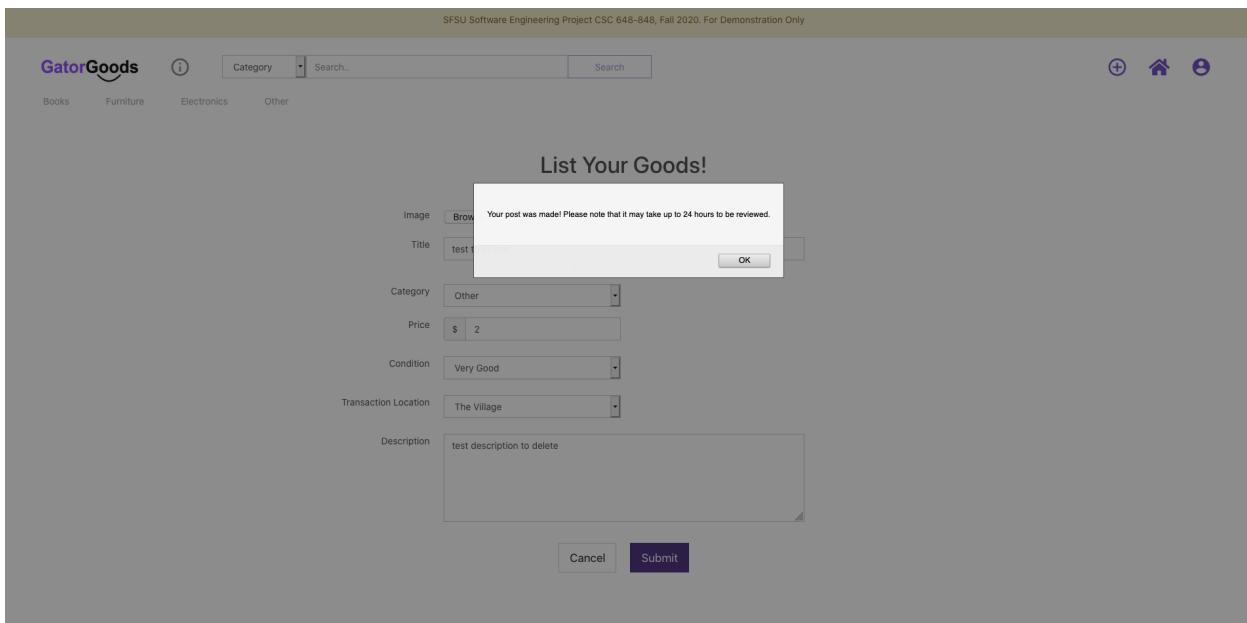
SFSU Software Engineering Project CSC 648-848, Fall 2020. For Demonstration Only

The screenshot shows the GatorGoods website interface. At the top, there is a navigation bar with the logo "GatorGoods", a search bar, and categories like Books, Furniture, Electronics, and Other. The account information "Account: zliu15@mail.sfsu.edu" is displayed. Below the navigation, the title "My Dashboard" is shown, followed by the account email. There are two tabs: "Listings" and "Messages", with "Messages" being the active tab. A table lists messages from various users:

Product Title	Contact Info	Message
Nerf Gun	4150000000	interested. please contact me
Fluffy Rug	415-123-4567	Hi, I am interested in the Fluffy Rug. Please let me know when you are free to meet up. I look forward to hearing from you!
Fluffy Rug	916 000 0000	Hi there! I'm interested in this rug! It's so fluffy!
Fluffy Rug	707 000 0000	Hey! I'd love to buy this! Is the price negotiable?? Let me know!
Nerf Gun	415-123-4567	Hi! I am interested in your Nerf Gun. How long have you been using it?
Fluffy Rug	validemail@mail.sfsu.edu	Hello! Can you meet tomorrow?! I love it!
Fluffy Rug	validemail2@mail.sfsu.edu	Hey! I love nerf guns! Is it still for sale?!
Nerf Gun	303 000 0000	Hey! I'm super interested in this! hmu if you still want to sell it!

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3.13. Post Product Listing (on confirmation)



4. Database Organization

4.1.a Product_Listing (part 1 of 2)

100% 1:1

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

product_id	title	price	description
1	Humans	35.50	Everyday people share their stories and invite u...
2	A Wealth of Pigeons	20.00	Cartoons created by comedian and actor Steve...
3	A Promised Land	30.00	An intimate portrait of the 44th president of the...
5	Calculus Early Transcendentals 3rd edt	5.00	A little outdated for classes but still a great reso...
6	English Grammar 3rd edition	7.00	Standard english textbook.
7	Computer Science An Overview 13th edt	9.50	Decent resource for students just getting into co...
8	Chemistry The Central Science 14th edt	25.00	Crucial read for chem majors!
9	History why it matters 1st edition	8.00	Great book on the importance of knowing our p...
10	Computer Chair	25.00	Very comfortable chair great for dorms!
11	Office Chair	18.50	Basically brand new! Very comfortable!
12	Desk Chair	5.00	Not very comfortable but it's small enough to fit t...
13	Gaming Chair	55.50	This chair is so amazing! Super comfortable for...
14	Fluffy Rug	6.50	It's so fluffy!
15	Computer Desk	25.00	Great size for a dorm room!
17	Modern Desk	15.00	Looks really sharp and fits in a dorm!
18	Corner Desk	23.00	Great for schoolwork and fits in a corner!
19	Adjustable Desk	45.00	Excellent for students who like to stand while w...
20	Playstation 2	65.00	A classic gaming console!
21	Xbox 360	45.00	Still runs great!
22	Xbox One	80.00	Great for gaming and watching netflix!
23	Playstation 3	72.50	Awesome gaming machine!
24	Samsung Galaxy S9	80.00	A little old but in great condition! Battery is excel...
25	iPhone 5s	35.00	Old as dirt but an amazing undersized iPhone!...
26	24" Gaming Monitor	120.00	240hz refresh rate and 1080p display!
27	32" Samsung Television	80.50	4k HDTV with bluetooth and wifi!
28	Bundle of Office Supplies	15.00	Comes with paper, writing utensils, ruler, calcula...
30	Nerf Gun	12.00	This baby rockets 5 darts per clip nearly 20ft! Ex...
32	Fish Tank	15.00	20" L 10" W 15" H
214	sanitizer	12.00	good for you
217	Burt's Bees Lip Balm	9.99	Burt's Bees 100% Natural Origin Moisturizing Li...
218	hand sanitizer	5.00	you probably need this!
▶ NULL	HULL	HULL	HULL

4.1.b Product_Listing (part 2 of 2)

condition	time	category	user	location	visible	approval	
1	2020-12-18 06:38:23	1	2	Library	0	1	
1	2020-12-18 06:05:21	1	2	Library	1	1	
1	2020-12-18 06:38:16	1	2	Library	1	1	
2	2020-12-18 06:05:21	1	51	The Village	1	1	
2	2020-12-18 06:24:40	1	2	The Village	1	1	
2	2020-12-16 16:12:52	1	2	The Village	1	1	
2	2020-12-18 06:05:21	1	2	Thornton Hall	1	1	
3	2020-12-18 06:21:00	1	2	C. Chavez	0	1	
3	2020-12-17 10:28:10	2	2	Library	1	1	
3	2020-12-16 16:24:09	2	2	Library	1	1	
4	2020-12-18 06:05:21	2	2	Library	1	1	
4	2020-12-09 12:13:12	2	2	Library	1	1	
4	2020-12-16 16:14:31	2	51	The Village	1	1	
4	2020-12-09 12:13:12	2	2	The Village	1	1	
4	2020-12-09 12:13:12	2	2	Thornton Hall	1	1	
1	2020-12-11 10:13:26	2	2	Thornton Hall	1	1	
2	2020-12-11 10:14:25	2	2	C. Chavez	1	1	
3	2020-12-09 12:13:12	3	50	Library	1	1	
4	2020-12-09 12:13:12	3	50	Library	1	1	
1	2020-12-09 12:13:12	3	50	Library	1	1	
2	2020-12-09 12:13:12	3	50	The Village	1	1	
3	2020-12-18 06:05:21	3	51	The Village	1	1	
4	2020-12-11 10:15:50	3	50	Thornton Hall	1	1	
4	2020-12-11 10:49:53	3	50	C. Chavez	1	1	
3	2020-12-16 11:11:40	3	50	C. Chavez	1	1	
2	2020-12-09 12:13:12	4	50	Library	1	1	
1	2020-12-10 03:23:09	4	51	The Village	1	1	
3	2020-12-09 12:13:13	4	50	C. Chavez	1	1	
1	2020-12-18 06:24:01	4	51	Library	1	1	
1	2020-12-18 06:38:00	4	2	The Village	0	1	
1	2020-12-18 06:43:05	4	51	Library	0	0	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	

4.2.a Message (part 1 of 2)

4.2.b Message (part 2 of 2)

time	buyer	seller	product
2020-12-11 10:39:19	50	2	2
2020-12-11 10:39:19	50	50	21
2020-12-11 10:42:22	50	50	28
2020-12-13 03:20:34	50	2	3
2020-12-13 03:23:12	50	2	13
2020-12-13 03:28:14	50	2	2
2020-12-13 03:30:27	50	2	2
2020-12-13 20:08:57	2	51	30
2020-12-13 20:16:36	84	2	2
2020-12-17 23:57:41	51	50	22
2020-12-18 01:49:29	54	2	3
2020-12-18 02:15:06	2	51	14
2020-12-18 05:26:06	2	2	3
2020-12-18 05:29:18	2	2	3
2020-12-18 06:14:18	50	51	14
2020-12-18 06:14:48	50	51	14
2020-12-18 06:15:37	2	51	30
2020-12-18 06:15:39	50	51	14
2020-12-18 06:16:16	50	51	14
2020-12-18 06:16:56	50	51	30
2020-12-18 06:42:01	51	50	22
NULL	NULL	NULL	NULL

4.3. Image

Result Grid				
	image_id	image_blob	product	image_thumb
	1	BLOB	1	BLOB
	2	BLOB	2	BLOB
	3	BLOB	3	BLOB
	5	BLOB	5	BLOB
	6	BLOB	6	BLOB
	7	BLOB	7	BLOB
	8	BLOB	8	BLOB
	9	BLOB	9	BLOB
	10	BLOB	10	BLOB
	11	BLOB	11	BLOB
	12	BLOB	12	BLOB
	13	BLOB	13	BLOB
	14	BLOB	14	BLOB
	15	BLOB	15	BLOB
	17	BLOB	17	BLOB
	18	BLOB	18	BLOB
	19	BLOB	19	BLOB
	20	BLOB	20	BLOB
	21	BLOB	21	BLOB
	22	BLOB	22	BLOB
	23	BLOB	23	BLOB
	24	BLOB	24	BLOB
	25	BLOB	25	BLOB
	26	BLOB	26	BLOB
	27	BLOB	27	BLOB
	28	BLOB	28	BLOB
	30	BLOB	30	BLOB
	32	BLOB	32	BLOB

Image 1

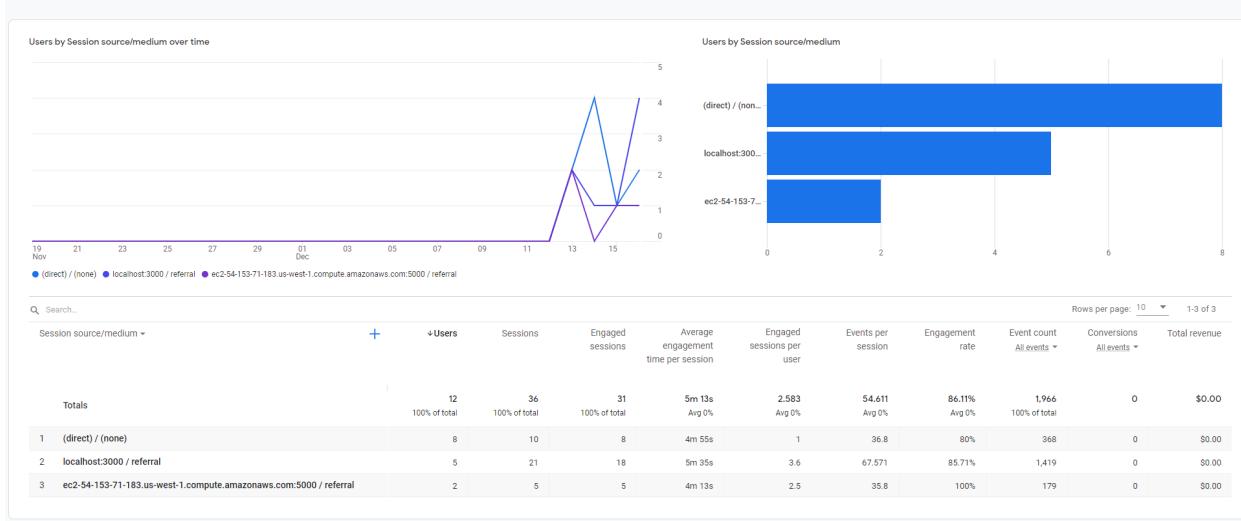
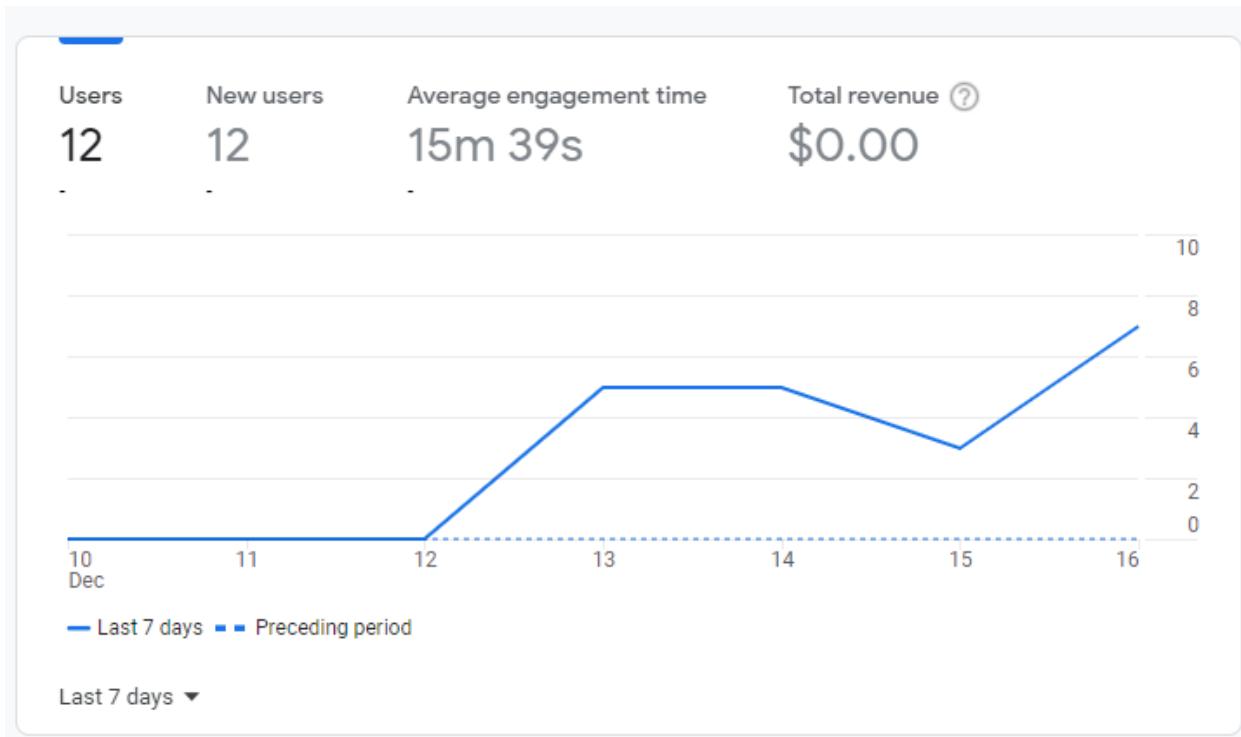
4.4. Category

4.5. User

Result Grid Filter Rows: Search Export/Import:

user_id	full_name	email	password	admin
1	Admin	admin@sfsu.edu	\$2b\$12\$OrIxcDRIQRloaaaj8KEru.E28mMoURK...	1
2	YG	yg@sfsu.edu	\$2b\$12\$nkLzRHSMuE/awdGhHLEoRee4y1SY...	0
50	trent	trent@mail.sfsu.edu	\$2b\$12\$p3FT2WbKcpvlyXz7HmTrePZGM7jvL...	0
51	Joy	zliu15@mail.sfsu.edu	\$2b\$12\$.RYDafqu6IMQu53cDNDAlu4k8U7q/O...	0
52	joytest	joytest@mail.sfsu.edu	\$2b\$12\$JFplD6z6qh36h54zWbfBO.NrSilqih3P...	0
53	test	test@mail.sfsu.edu	\$2b\$12\$JR1DpHP7m5baxQk0CLUpbukYGxn8t...	0
54	hesham	hesham@sfsu.edu	\$2b\$12\$4rMYcNTPVZ1f/ZwKFF7sLeryLRU4Nz...	0
56	bebe	bebe@sfsu.edu	\$2b\$12\$YsazGKEdgRS4GFCT68aw5OskgNYf...	1
57	trentsafari	trentsafari@mail.sfsu.edu	\$2b\$12\$xunEAn3Rd/xdW9dtKbP3Zu47eljBWO...	0
58	blin	blnrf@mail.sfsu.edu	\$2b\$12\$zGotuB6DQtwnsnxwENcWCOMgnSV...	0
84	lee	f@sfsu.edu	\$2b\$12\$7iMwBswU52N0Ge85EgkOeW1K1xc...	0
85	TSnew	test3@mail.sfsu.edu	\$2b\$12\$LtjCBMEzqhpdkdgXmlwkOV5OyAe9ie...	1
86	sadmin	sadmin@sfsu.edu	\$2b\$12\$dqx4ENCxBgbhtzBwnLJvcuf2aWLQpA...	1
87	test11	test11@sfsu.edu	\$2b\$12\$AhgYQ.gjV76YaSjCkly.HuH2x6E/gi1G...	0
88	abigtester	abigtester@sfsu.edu	\$2b\$12\$d4BGODwO8.OWw25qeYgNFOXWJn...	0
89	gladmin	gladmin@sfsu.edu	\$2b\$12\$p6M5vCDKu7GROv31DH70VunpD4j5...	0
90	tester	tester@sfsu.edu	\$2b\$12\$ssK7DfhYgcAcj.CAvbGcKA.NoDYGgyb...	0
91	trent1	trent1@mail.sfsu.edu	\$2b\$12\$lx56sh9h02Pu6KcTsViS1uQJNZ1lc8JG...	0
92	david	david@mail.sfsu.edu	\$2b\$12\$1iDBH2EIExpHDyz/A/Df9.yoTnPpyCN...	0
93	joyadmin	adminjoy@mail.sfsu.edu	\$2b\$12\$a4S0p8YLY68cpDE419Ee9es8UkTDm...	1
94	yg_admin	ygadmin@sfsu.edu	\$2b\$12\$ll2aOsYZLPnF56r0QPGGy.ToLnFRC4...	1
95	trent_admin	ts@sfsu.edu	\$2b\$12\$RJA0JmsPXXMGdZBa9yaJz.WiyIBkm...	0
96	testing	testing@sfsu.edu	\$2b\$12\$FC8MBvrkH5A53x4KLW4TVuZvk1rxz5...	0
97	gladmin2	gladmin2@sfsu.edu	\$2b\$12\$XM4Oth8DtM3f2TkV/xU.UOd1hmUHo...	0
NULL	NULL	NULL	NULL	NULL
User 1				

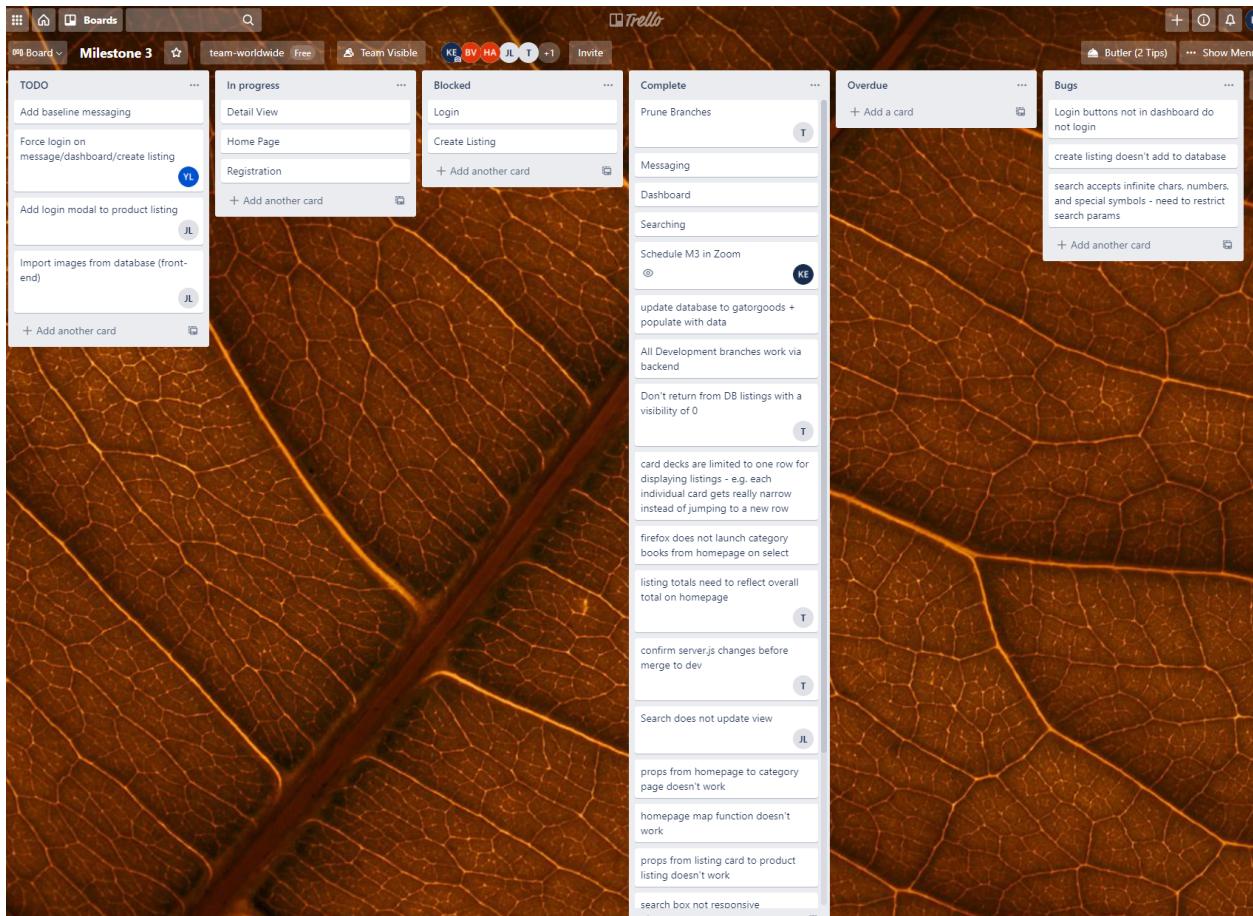
5. Google Analytics



6. Project Management

6.a. Communications

6.a.1. Trello Board



6.a.2. Google Doc

post M3 TODO Saved to Drive

File Edit View Insert Format Tools Add-ons Help

Share

Title Arial 26

TODO

Joy Kent YG Trent

Analytics

- Do google analytics

Filter

- Work on the filter

Nav (done)

- (done) Say post item instead of create listing
- (done) Move search to the left slightly
- (done) Put the categories under the search bar
- (done) Move about team to the right
- (done) Added others under dropdown

Category (done)

- Set up category on books, remove featured categories (done)
- Added contact seller button on card upfront (done)
- Sort by: remove latest (done)
- Filter: remove price filter, move it on the top with "condition", and show 4 cards each row (done)

After clicking on card (done)

- Open in new tab

After clicking contact seller (done)

- Prefill the basic name of the product
- Move close to the left slightly

Search result (done)

- It's a little bit slow on showing results
- Loading widget
- Thumbnails
- By description(Done)
- Open on unique id view i.e. searchresult34324hdwahda(Done)
- Open in new tab(Done)

Login (done)

- Added a Forgot PW link(Done)

Create listing

- (done)Condition, location, etc less width (isn't it a radio button?)
- Add 'potentially 24 hours till approval'

Dashboard (done)

- (done) Listings - Tell how many
- (done) Messages: show everything upfront in a table, product ID, email, date, messages tell how many messages, sort by each column (done)
- (done) Add my email to dashboard

Waiting for addons-pa.clients6.google.com... done

6.a.3. Discord Server

648 Global Team

general

@everyone has anyone been in the database today?
@Hesham dev had a merge go wrong we're gonna try and fix it
@Blin we've talked about it prior but unfortunately i don't remember what was the ultimate decision. hopefully someone else can speak on it when they get back online

Blin 11/14/2020
I think we decided to have additional options (including dashboard) for admins inside of the web app, and that's what me and hesham would also be proposing. I was just double checking

Keith 11/14/2020
I would prefer that the admin and user accounts be separate, and get different dashboards, if you feel it's easier the other way go for it

Trenton 11/14/2020
@Keith are you aware of any issues with AWS atm? our database is down and I'm not sure if it was a user error from somebody or if it's external issues

Keith 11/14/2020
No problems with the server on EC2

Blin 11/14/2020
@Keith by separate you mean that upon an admin login, he gets to see only his dashboard and not access the main web page as a normal user?

Keith 11/14/2020
I'll be at my desk in 20 or so I can check the DB

Keith 11/14/2020
@Blin correct, admin accounts should be for admin only

Blin 11/14/2020
@Trenton hesham also couldn't get the connection going, so apparently the db is down

Keith 11/14/2020
Okay we can do it like that, actually it's easier as a separate dashboard app.

Keith 11/14/2020
yeah looks like the instance is having problems @Trenton , I'm troubleshooting now

Trenton 11/14/2020
okay thanks for the heads up
@Joy L let me know when you have time to talk about your merge

Joy L 11/14/2020
@Trenton did you figure it out? what do you think about 7:30-ish?

Keith 11/14/2020
@everyone server is back up

Trenton 11/14/2020
niceeeeeee man awesome
@Joy L i'm working on it atm but 7:30 sounds good

Trenton 11/14/2020
@Joy L you wanna hop in General?

Joy L 11/14/2020
sureeeel

6.b. GitHub Commit Log

Aug 30, 2020 – Dec 17, 2020

Contributions: Commits ▾

Contributions to master, excluding merge commits



7. Team Member Self Assessment and Contributions

Found in Sent - trentonsmith650@gmail.com Mailbox

Trenton Smith
Team Member Contributions
To: Keith Alan Eastman, Yugyeonglee93@gmail.com, Zhuozhuo Liu

December 16, 2020 at 7:08 PM 

Hello Everyone!

First off great job this semester! We worked hard but I think it paid off!

Secondly, please see my contribution report below. If you wouldn't mind, please reply-all with your own contribution report so that they may be added to our M5 doc!

Trenton Smith - GitHub Master | Editor - Contributions

As Github Master:

- Initialized and maintained git repo and associated branches
- Controlled git workflow for team, assisting or performing merge requests
- Lended expertise in git flow / commands to team members less experienced
- Performed QA and code reviews
- Added comments and documentation to majority of files
- Added data items and maintained team database
- Developed and hardened security measures for coded forms
- Contributed significant code related to many P1 features incl. sql back-end queries, styling and UI, searching, sorting, and more
- Solved issue with uploading and rendering images from database

As Editor:

- Proofread all documents prior to submission
- Authored majority of the sections for delivery
- Revised all documents per Professor's feedback
- Conformed all sections into cohesive styling
- Maintained status of Milestone folder on repo
- Proofread documentation, comments, and text sections for application

Number of Submissions to Dev: 74 commits

Challenges during project: The main challenges I faced during the project were in learning new coding languages! I had to work hard to understand the more advanced features of git (reverting commits, reverting merges, submitting merges, changing files, etc.) as well as learn React- our framework for the project, more advanced sql queries (unions, replacements, etc.), and advanced algorithms and functions related to things like converting data streams and more technical issues. Further, time was a huge issue, as the semester was very challenging and the time to not only develop code, QA that code, and then author and proofread documents was extensive.

Changes for future projects: In the future, I would definitely want to spend more time in commenting and documentation during development, and not wait until the latter stages to add it back in to existing code. I found that in adding the comments, I actually understood the code much, much better, and it helped a lot during some final coding prior to delivery.

Thank you all so much!

Trenton Smith
2020 Google Scholar
SFSU ComSci Major
USAF Veteran
Email: trentonsmith650@gmail.com
tsmith18@mail.sfsu.edu

 December 16, 2020 at 7:19 PM [Details](#)

Yugyeong Lee
Re: Team Member Contributions
To: Trenton Smith, Cc: Keith Alan Eastman, Zhuozhuo Liu

Thank you everyone for your hard work!

Here is my contribution report below:

Yugyeong(YG) Lee | Backend Master

As Backend Master:

- Initialized Read/Node/SQL project and Model-View-Controller(MVC) Software architecture/structure for the project.
- Developed API's, Routers, Controllers, Models, Authentications, SQL connections, and queries.
- Implemented the functional parts of the Frontend.
- Developed the SQL database schema for the project from Use Case -> Business rules -> ERD (Entity Relationship Diagram) -> EER (Enhanced Entity-Relationship) -> Forward Engineering to ensure the database model into the database schema.
- Provided guidance to Frontend master for APIs and State management.
- Added comments and headers to files.

Number of Submissions to Dev: 45

Challenges during the project: The main challenges I faced were in learning SQL and dealing with Images. I had to work hard to learn SQL and ensure to have a good database foundation for the project before we dig deeper into the development. Looking back during that period, it was tough but I learned so much about relational databases and how to create relations between entities. Moreover, converting image data to and from the database was a big challenge, however, I learned a lot about data streams and conversion.

Changes for future projects: In the future, I would like to dig deeper into state management, deployment, and multimedia. Also, I will apply things I learned from this experience to my future projects, especially with proper GitHub commits and requests.

Yugyeong(YG) Lee
SFSU ComSci Major
Email: yugyeonglee93@gmail.com
yLee14@mail.sfsu.edu

[See More from Trenton Smith](#)

Zhuozhuo Liu
 Re: Team Member Contributions
 To: Yugyeong Lee, Trenton Smith, Cc: Keith Alan Eastman

December 16, 2020 at 7:38 PM

[Details](#)

ZL

Hi everyone! Please find my summary as below:

Zhuozhuo Liu - Frontend Lead

As a frontend lead:

- Composed persona, main use cases, and competitive analysis in M1
- Designed UI mockup on Figma and storyboard in M2
- Composed the usability task in M4
- Developed the styling of the majority of the components in P1
- Applied the logic to talk to the backend on
- Optimized the usability
- Composed some documentation

Number of the Submission: 44

Challenges: The biggest challenge for me is to learn new things like React, Git, and the whole development procedures. I have no experience building up a web app from end to end so this is very new to me. I didn't have a big picture of how much work should be done so I caught up with my peers a little bit late. Also React is new to me, I had a hard time picking it up but gladly YG and Trent helped me a lot. Git usage is also new to me, so I started to commit my code later than my teammates. Since I was not familiar with the version control in a team setting, I "created" some issues that Keith had to spend a bunch of time dealing with at midnight. Another challenge is that we are not able to meet in person because of COVID-19 so something is more challenging such as the environment setting and debugging.

Changes to future projects: In the future, I would be braver to ask for help from team members as my team members are way more ready to help than I expected. I would also start on documentation earlier and noting down my weekly tasks and challenges in specific words instead of oral commitment. I would also start to write header comments during the coding instead of during the later stage.

[See More from Yugyeong Lee](#)

Keith Alan Eastman

Re: Team Member Contributions
 To: Zhuozhuo Liu, Yugyeong Lee, Trenton Smith

December 16, 2020 at 7:40 PM

KE

Thanks everyone,

here's my report:

Keith Eastman – Team lead

Contributions:

- Organized and planned meetings
- Supervised git repo, approved pull requests, directed cleanup
- Performed QA
- Provided comments and feedback on documentation prepared by the editor
- Performed database migration
- Wrote baseline functionality
- Assisted team members in achieving a standaradized development environment
- Provisioned secure SQL database access
- Maintained AWS instance
- Added and configured analytics

Submissions to dev: 30

Challenges during the project:

During this project I had a catastrophic failure when I was tinkering with the live production instance within 30 minutes of our demo and blew up our entire domain. The server needed to be completely rebuilt from version control. It was my fault because I wanted to have an impressive domain instead of an IP, and because I didn't get it in order well in advance I got much worse than just missing an optional flashy domain name.

Changes for the future:

I need to make more time before diving into dark waters, I definitely need to devote the proper time to understanding a piece of tech before I put myself in a situation that can be hard to undo. Most crucially, always have a backup. If there's no backup for something I'm messing with, I probably shouldn't be messing with it unless I'm far from a deadline.

[See More from Zhuozhuo Liu](#)