

**Final Project for SW Engineering Class CSC 648-848 Fall 2018**

**Team 01**

# **Gator Trader**

**Team Lead** - Marcus Mertilien  
**Email:** marcusmertilien@gmail.com

**Front-End Lead** - Alex Ha  
Athena Javier  
Michael Phan

**Back-End Lead** - Raul Serrano  
Daniel Martinez  
Albert Shevchuk

**URL:** <http://gatortrader.herokuapp.com/>

Saturday, December 22, 2018

## **Product Summary**

### **Tired of dealing with strangers? Use Gator Trader!**

Are you a busy San Francisco State University student? Then we have an awesome new app that is going to help you purchase and sell goods online to nearby students just like you! Gator Trader was specifically designed by an outstanding crew of engineers to help SFSU students with their needs. Our application is user friendly, sophisticated, and super convenient. Only SFSU students now have the advantage to post, view, and message each other via our website making transactions simple so you can kiss that moving truck goodbye. Dealing with local students doesn't just make our product unique, but also an accommodation to you. Visit our page at: <http://gatortrader.herokuapp.com/>

Gator Trader Provides:

1. Easy website browsing.
  - a. Browsing by category
  - b. View item details
2. Guest users shall be able to search using our search engine.
  - a. Filter search results
3. Simple user login and registration.
4. Registered users shall be able to contact sellers.
5. Registered users shall be able to post items for sale
6. All users shall be presented the Policy while they're creating their account.
7. Registered users shall include contact information.
8. Registered users shall be able to look at the lists of the items they posted for sell.

## Milestone Documents

## Milestone 1

SW Engineering CSC648/848 Fall 2018

GatorTrader

Team 1

**Team Lead - Marcus Mertilien**  
**Email:** marcusmertilien@gmail.com

# **Front-End Lead - Michael Phan**

## Athena Javier

## Alex Ha

# **Back-End Lead - Albert Shevchuk**

## Raul Serrano

## Daniel Martinez

## Milestone 1

October 3, 2018

## 1. Executive Summary

One of the top 10 reasons why people use the internet: Making money and marketing. In the past decade, the number of users online has been skyrocketing. This has bolstered the exchange of information as well as the exchange of goods. Based on e-commerce, such as, eBay, craigslist, and Amazon, in the top most visited website. With the amount of different types of users each online marketing website get, they have variety of selection to choose on their website. But if we focus on one main target group, such as San Francisco State University students, we will develop one target focus, which is marketing to students who are known as “college broke students”. This website will not only help them to sell/buy items *easily*, but it will help them *securely* with every process. With *effortless* and *security*, students will need this to connect with other students faster. The Buy and Sell website will contain every student needs to make their life easier as a student:

1. This Buy and Sell website is intended for use by students attending San Francisco State University.
2. All information will be secured.
3. Students will be providing contact information when they sell items and will be able to contact the seller.
4. Students can browse through the website without creating an account.
5. Great Policy! Will help you make a smooth transaction.

We here at Gator Trader have put together an amazing team of developers to help build a platform where students can post their items for sale with ease.

## 2. Persona and Use Cases

### Personas

1. A San Francisco State University (SFSU) student called John who is not good with computers but likes to shop. He prefers websites that are easy to navigate without getting lost on them. He mostly uses online shopping to buy what he finds interesting but doesn't look for anything specific. He prefers to see recommendations or what is popular at the moment. Issues he has is that he would leave a website if it's too hard to use or if he couldn't easily find what he was looking for. Another issue is that his computer is old and slow and wouldn't be able to run a website that uses a lot of ram and CPU usage.
2. Student 2 prefers when things go fast. He is skilled at working in computers so if everything works well then, he could navigate it easily. He is impatient and doesn't like when things slow down or stop especially a website. He also likes looking at the ratings of an object or item to know when something is good. In a website he wants to be able to find the item he wants quickly without clicking on too many links.
3. Student 3 likes to sell things online. He would buy things outside to sell at a later time for a higher price. He wants to be able to sell things easily and wants options to help manage the items that he has posted and see the messages from people who are interested. He also like shopping for cheap items. He wants to be able to see the cheaper items first in any category.
4. Student 4 is the admin of the website. He wants to stay out of trouble, so he regularly checks the website when he can to see if everything is okay. He also uses the website for personal use to buy things like the users who uses it. His issue would be when there are too many postings and he doesn't have the time to check on all of them.

### Use Cases

1. John wants to look to look online for things to buy and decides to go to our website. He browses through the different **categories**. He would **sort** by most sold or best sellers to see the things that have been purchased. Once decided on an item he would log in to message the buyer.
2. Student 1 is looking to check their sales online. They goes to the website, log in, and then click their username, which redirects to the seller dashboard. Here it will show the **posting status** as well as the option to add more and **messages** from potential buyers. There they add the info to their item as well as what category it would belong to.
3. Student 2 is the admin of the website. He checks the items posted to make sure they legal. Also gets rid of untrusted sellers by checking reports from that seller. If he sees an item that's illegal or abnormal like weapons, then he would delete that item and contact seller as per site policy.

### **3. Data Definition**

1. **Guest User**- User without an account, can still browse the web.

2. **Registered User**- User with an account.

1. **Members of a Registered User**

a. **Email**- an .edu email address.

b. **Image**- Items on sell.

3. **Admin** – User with administrative privileges

1. **Employee of Gator Trader**

a. **Admin Dashboard** – Flag to trigger admin status and show dashboard.

4. **Item** – Posted by a seller

1. **Members of Item**

a. Title

b. Price

c. Description

d. Date

## **4. Initial List of Functional Specifications**

1. Guest users shall be able to browse through the website.
2. Guest users shall be able to browse by categories.
3. Guest users shall be able to search on the search engine.
4. All users who wants to purchase an item shall create an account or login.
5. Registered users shall be able to contact any sellers.
6. All users shall be presented the Policy while they're creating their account.
7. Registered users shall include contact information.
8. Registered users shall be able to look at the lists of the items they posted for sell and messages on their dashboard.
9. Registered users shall able to manage their account. Shall able to remove or edit postings.
10. Guest users shall be able to use sorted feature: Low to high prices, High to low prices, Alphabetical, etc.

## **5. List of Non-Functional Specifications**

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 all major browsers: Mozilla, Safari, Chrome.
3. Selected application functions must render well on mobile devices
4. Data shall be stored in the team's chosen database technology 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.
8. Application shall be very easy to use and intuitive.
9. Google analytics shall be added
10. No e-mail clients shall be allowed
11. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated.
12. Site security: basic best practices shall be applied (as covered in the class)
13. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development
14. The website shall prominently display the following exact text on all pages "*SFSU-Fulda Software Engineering Project CSC 648-848, Fall 2018. For Demonstration Only*" at the top of the WWW page. (Important so as to not confuse this with a real application).

## 6. Competitive Analysis

| Features | Amazon | eBay | Craigslist | Gator Trader |
|----------|--------|------|------------|--------------|
| Search   | ++     | +    | +          | +            |
| Selling  | +      | +    | +          | ++           |
| Delivery | ++     | +    | +          | ++           |
| Browse   | +      | +    | +          | +            |

+ feature exists; ++ superior; - does not exist

Our product will offer some of the features other sites already have like Search, Browse, Sell, etc. However, our product has an advantage when it comes to Selling and Delivery because the communication is directly between seller and customer which will give customers the advantage of asking for a price reduction, or other accommodations that our competitors will not have. In addition, our Delivery system is faster than our competitors because the product will be delivered directly to the customer by the seller which means that the product can be delivered within ours and even minutes and the customer will not have to wait the usual two days or five days shipping time like in other companies.

## **7. High-level System Architecture**

- Bootstrap
- React
- Express
- MySQL
- Google Chrome
- Safari
- Netlify
- Heroku
- AWS (Amazon Web Services)

## **8. Team**

1. Marcus Mertilien -Team lead
2. Albert Shevchuk- Back end lead
3. Michael Phan - Front end lead
4. Alex Ha
5. Raul Serrano
6. Daniel Martinez
7. Athena Javier

## **9. Checklist**

Team found a time slot to meet outside of class

-On Track

GitHub master chosen.

-Done

Team decided and agreed together on listed SW tools and deployment server

-Done

Team ready and able to use the chosen back and front-end frameworks and those who need to learn are working on it

-Done

Team lead ensure that all team members read the final M1 and agreed/understand it before submission

-Done

## Milestone 2

SW Engineering CSC648/848 Fall 2018

GatorTrader

Team 01

**Team Lead** - Marcus Mertilien  
**Email:** marcusmertilien@gmail.com

# Front-End Lead - Michael Phan

## Athena Javier

## Alex Ha

# **Back-End Lead - Albert Shevchuk**

## Raul Serrano

## Daniel Martinez

## Milestone 2

October 18, 2018

| Revision Date | Notes |
|---------------|-------|
|               |       |
|               |       |
|               |       |
|               |       |
|               |       |
|               |       |
|               |       |

## **1. Data Definitions V2**

1. **Guest User-** A user without an account, can still browse the web.
2. **Item-** Books, Calculator, Furniture, etc. that is on sell.
3. **Messages-** Guest users are able to contact the sellers about the item posted for sell.
4. **Registered User-** User with an account can message other sellers about items.
5. **Email-** An .edu email address to show they're SFSU students to buyers.
6. **Image-** Help view what/how/look the item on sell
7. **User record-** Registered users are able to keep track of what they posted.
8. **Admin-** User with special privileges; have the ability to remove posts from the site and generally enforce the Terms and Conditions of the site.
9. **Category-** Guest and registered users are able to search items by category.
10. **Drop Down Category-** Let users search easier by selecting by category.
11. **Search Engine-** Users are able to search any item on the search engine. Such as, “books”, “Calculator”, etc.
12. **Account-** Buyers shall register to complete a transaction.
  - a. *First Name and Last name-* the users' Full name
  - b. *Birthday-* must be 18 years old and older to make a transaction on GatorTrader.
  - c. *Email-* must have a .edu email
  - d. *Phone Number-* Shall be included for easy and smooth transaction between buyers and sellers.
  - e. *Agreement-* Shall agree to GatorTrader policy to complete transaction.

## 2. Functional Requirements

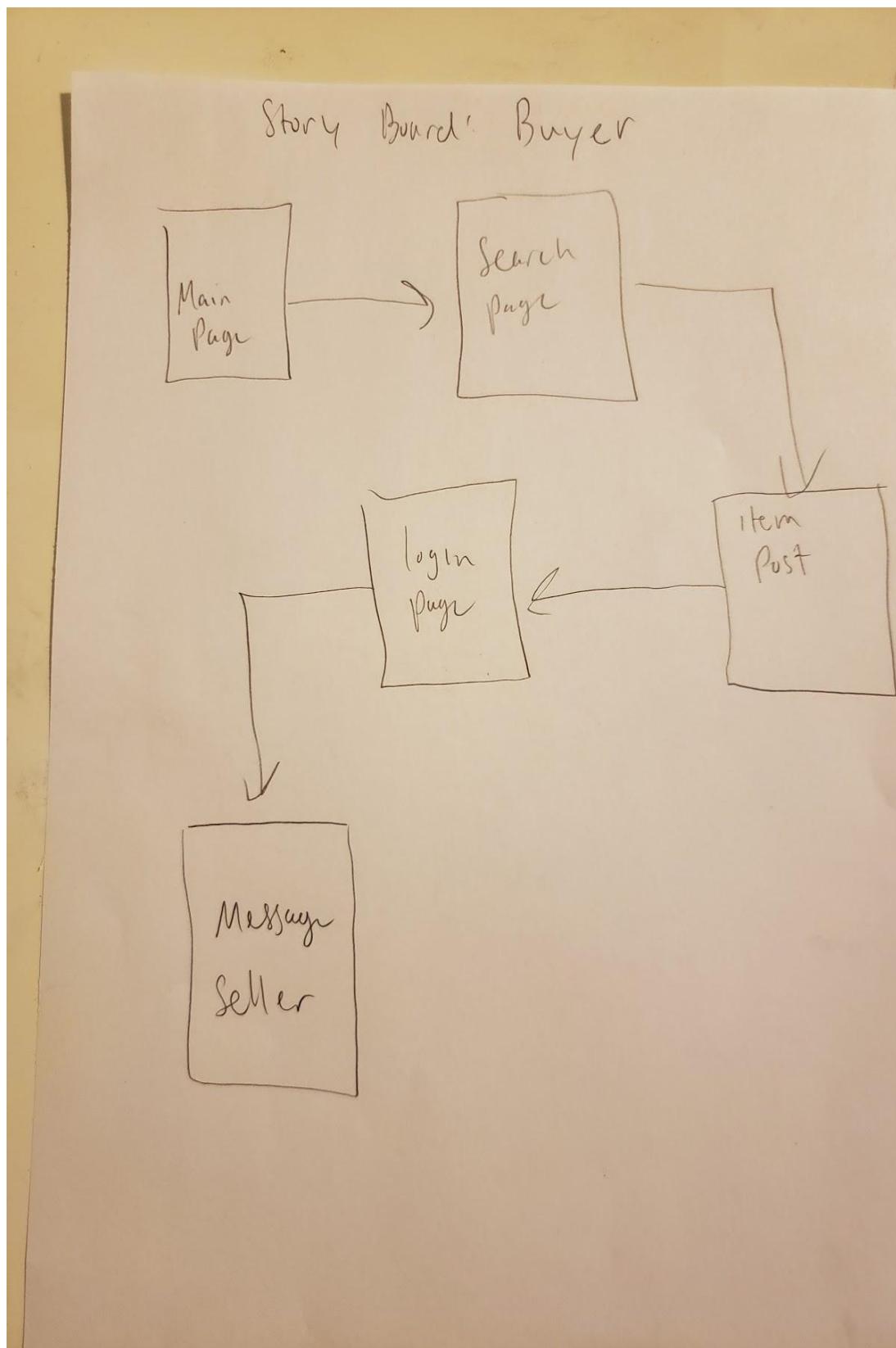
- Priority 1
  - Post items
  - Login & Registration Page
  - Search by Category
  - Admin Dashboard
  - Detailed Search Page
  - Seller Dashboard
  - Password Encryption
  - Google Analytics
  - **Home Page**
  - **Lazy Registration**
  - **Image Upload**
  - **Website Disclaimer**
  - **Messaging Page**
  -
- Priority 2
  - Search Field Validation
  - Thumbnails
  - New Tabs for Detail Pages

| Features | Amazon | eBay | Craigslist | Our Future Product |
|----------|--------|------|------------|--------------------|
| Search   | ++     | +    | +          | +                  |
| Selling  | +      | +    | +          | ++                 |
| Delivery | ++     | +    | +          | ++                 |
| Browse   | +      | +    | +          | +                  |

+ feature exists; ++ superior; - does not exist

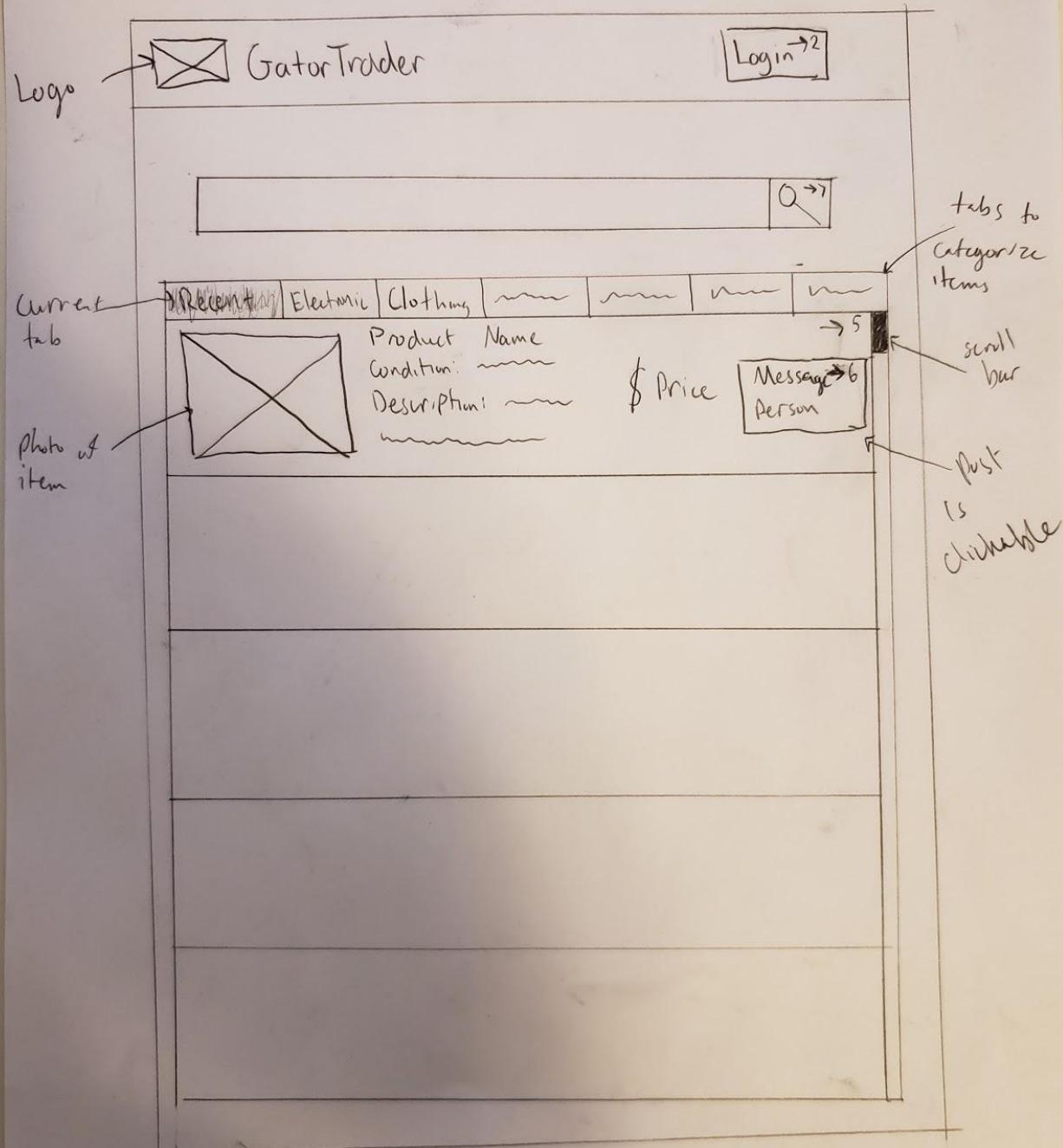
Our product will offer some of the features other sites already have like Search, Browse, Sell, etc. However, our product has an advantage when it comes to Selling and Delivery because the communication is directly between seller and customer which will give customers the advantage of asking for a price reduction, or other accommodations that our competitors will not have. In addition, our Delivery system is faster than our competitors because the product will be delivered directly to the customer by the seller which means that the product can be delivered within ours and even minutes and the customer will not have to wait the usual two days or five days shipping time like in other companies. Registration establishes a level of security and safety for both parties. An admin has the ability to disclose communication messages between both parties to the law enforcement or the party itself.

### 3. UI Mockups & Storyboards



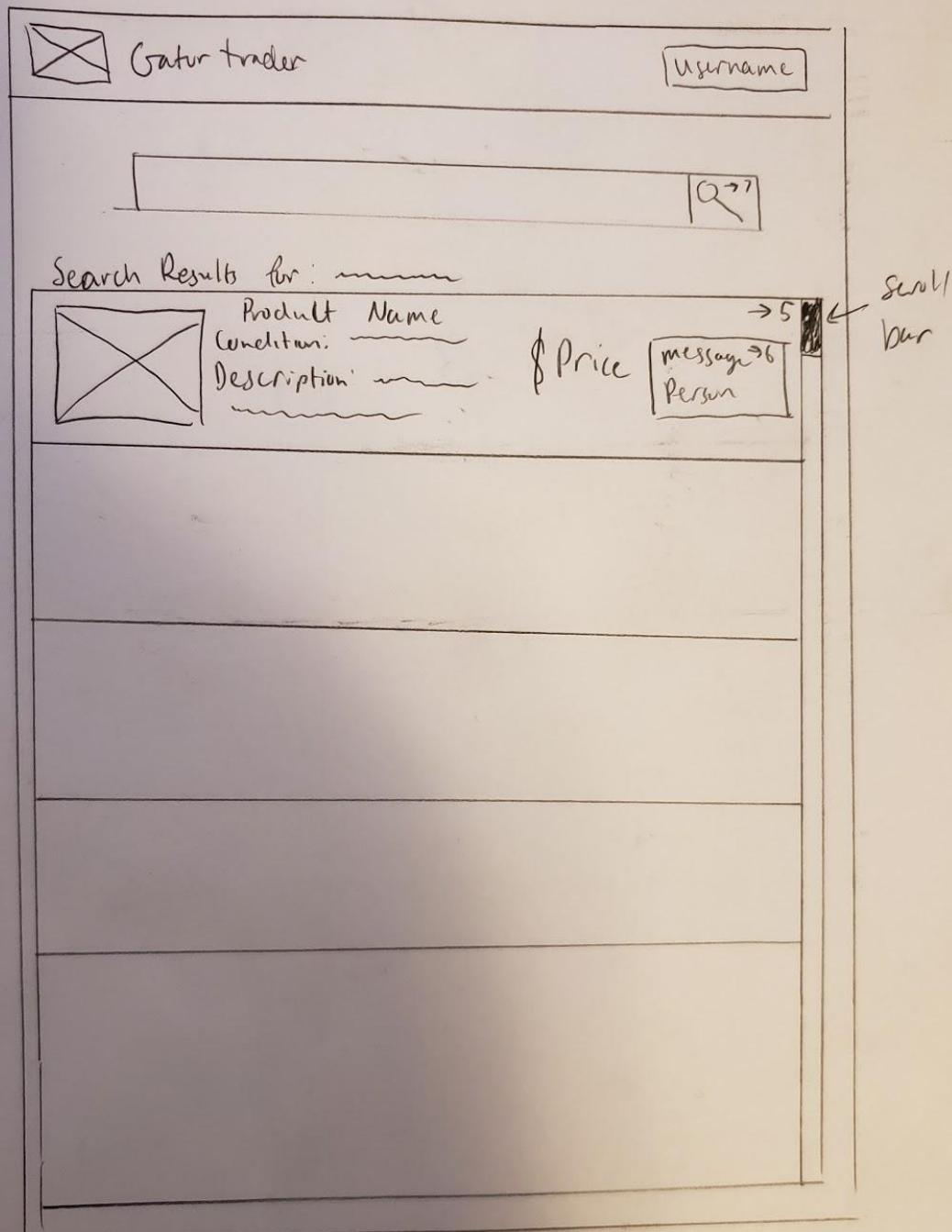
# Unauthorized Landing Page

1



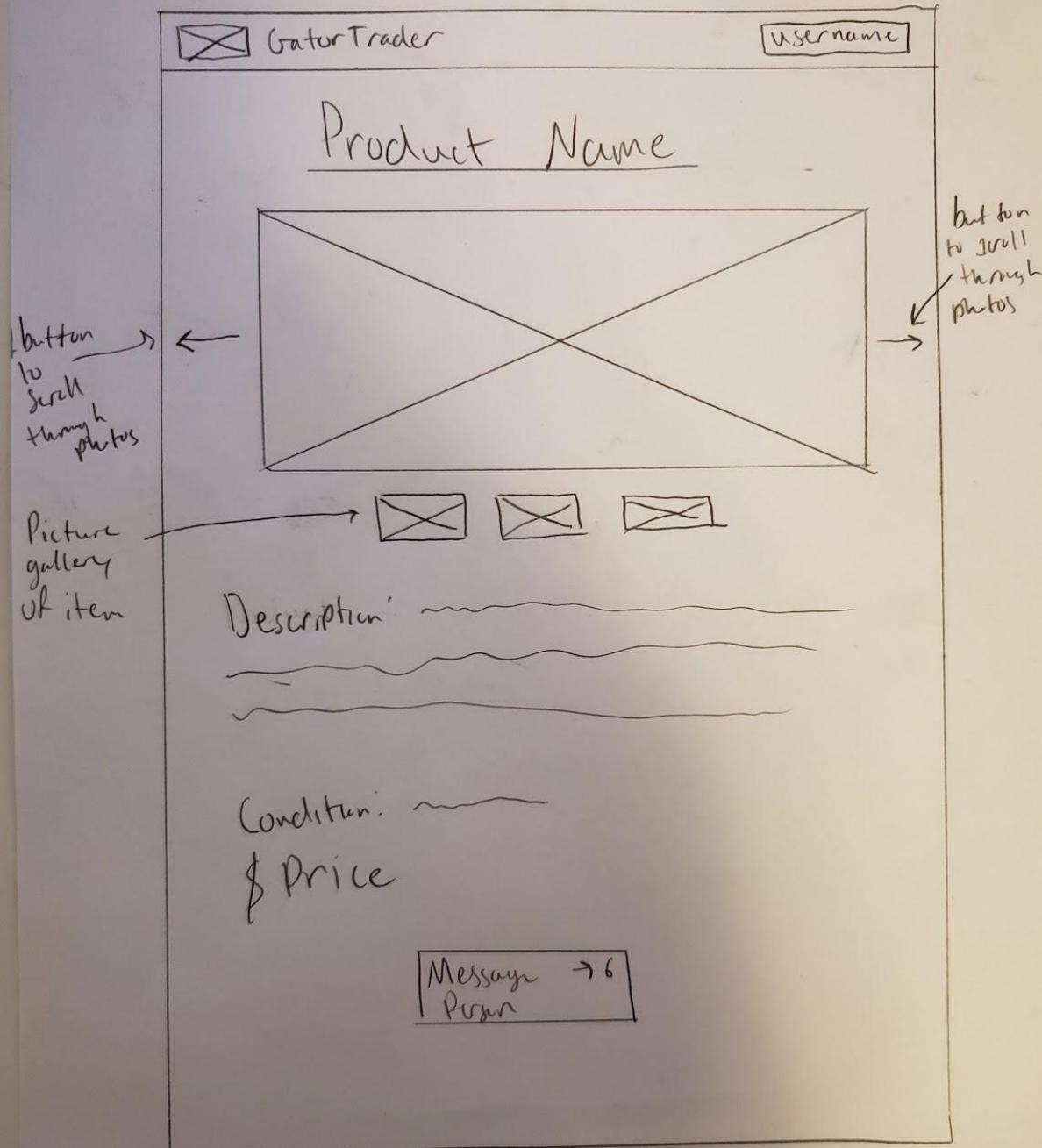
# Search Results Page

7



# Item Post Page

5



Login Payz

2



Gator Trader

Login

Username

Password

Login →<sup>4</sup>

Register →<sup>3</sup>

# Messaging Page

GatorTrader

Username: [ ]

Messagin Person

Username: [ ]

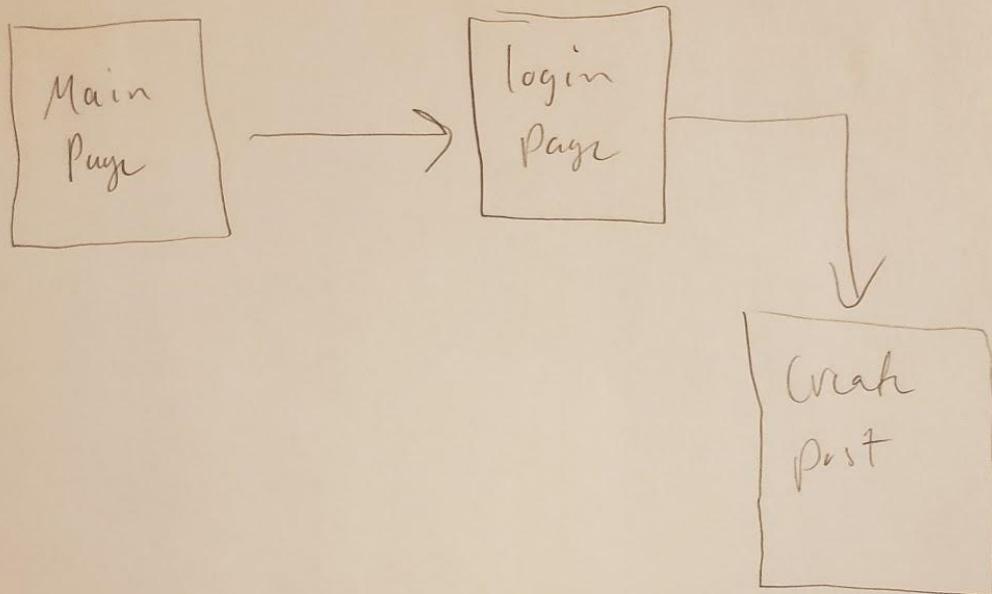
Person: [ ]

Person: [ ]

Username: [ ]

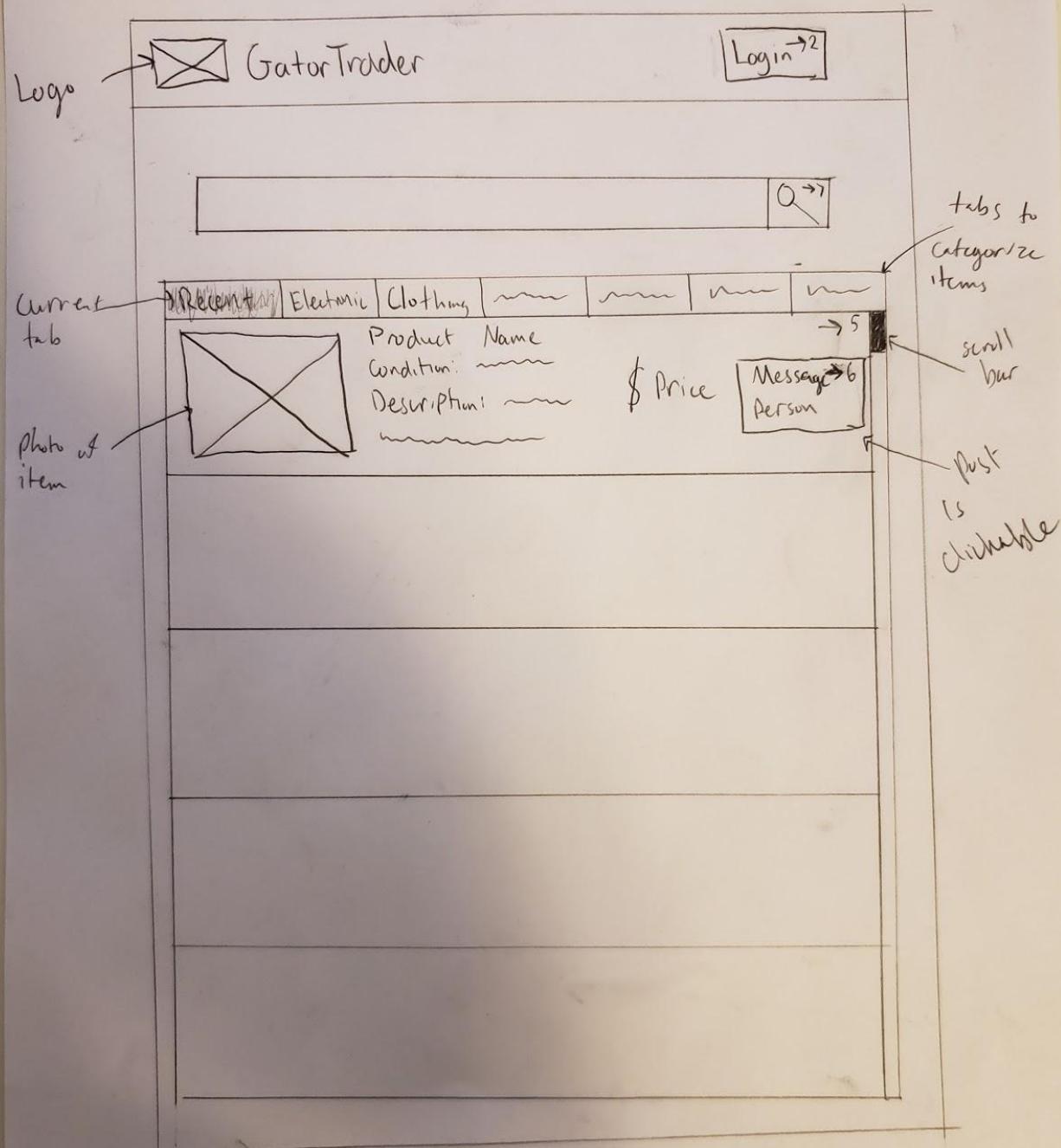
Send  
message  
button

## Story Board: Seller



# Unauthorized Landing Page

1



Login Payz

2



Gator Trader

Login

Username

Password

Login →<sup>4</sup>

Register →<sup>3</sup>

# Create Post Page

8

GatorTrade

Username

## Create Post

Product name

Condition

Price

Description

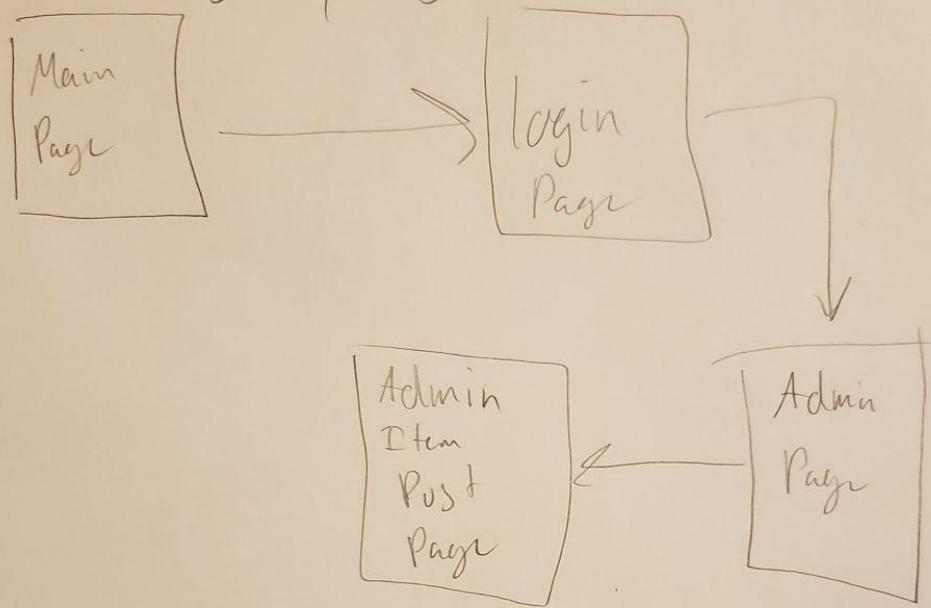
Upload Photo

clickable

Create Post

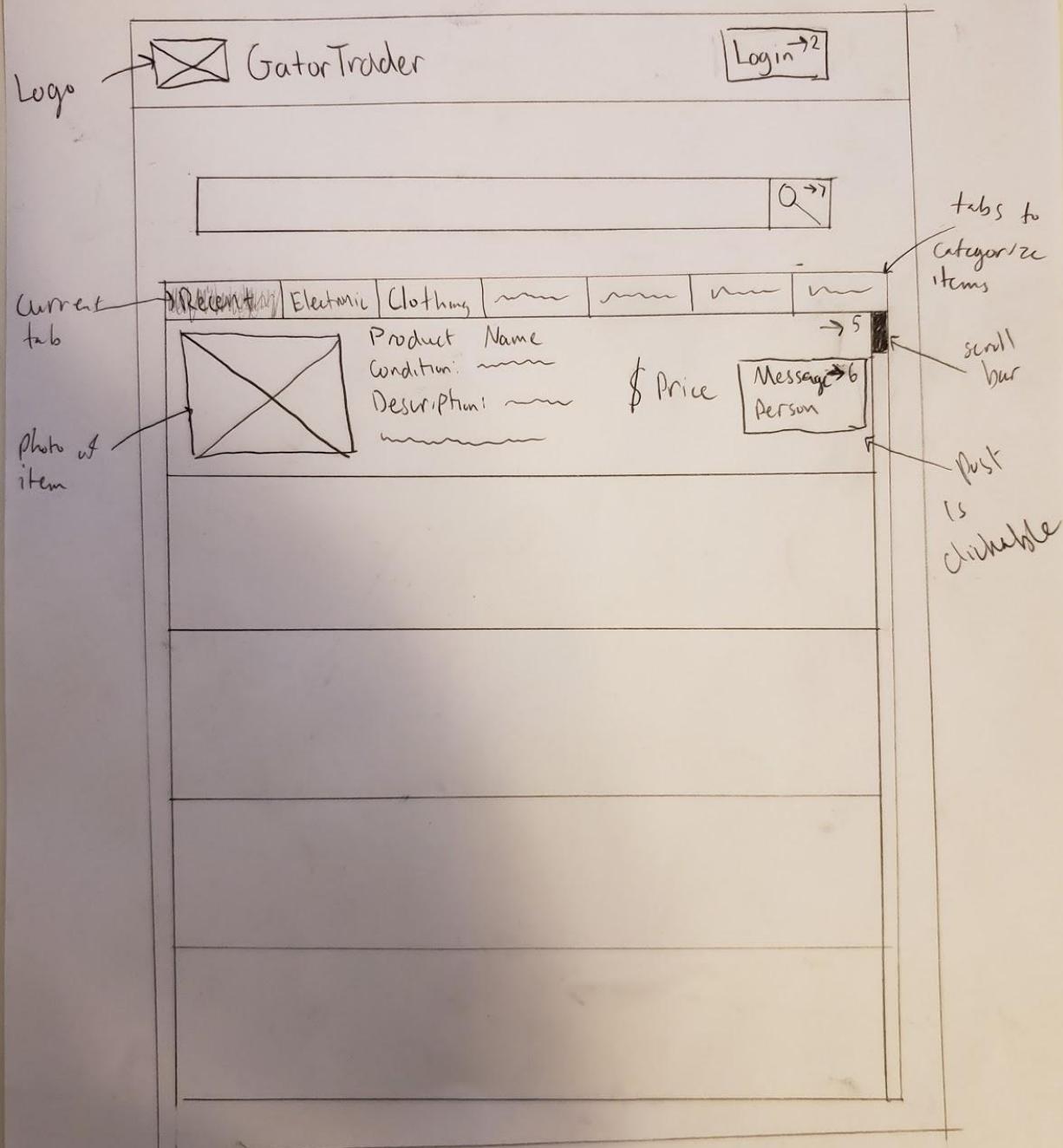
clickable

## Story Board : Admin



# Unauthorized Landing Page

1



Login Payz

2



Gator Trader

Login

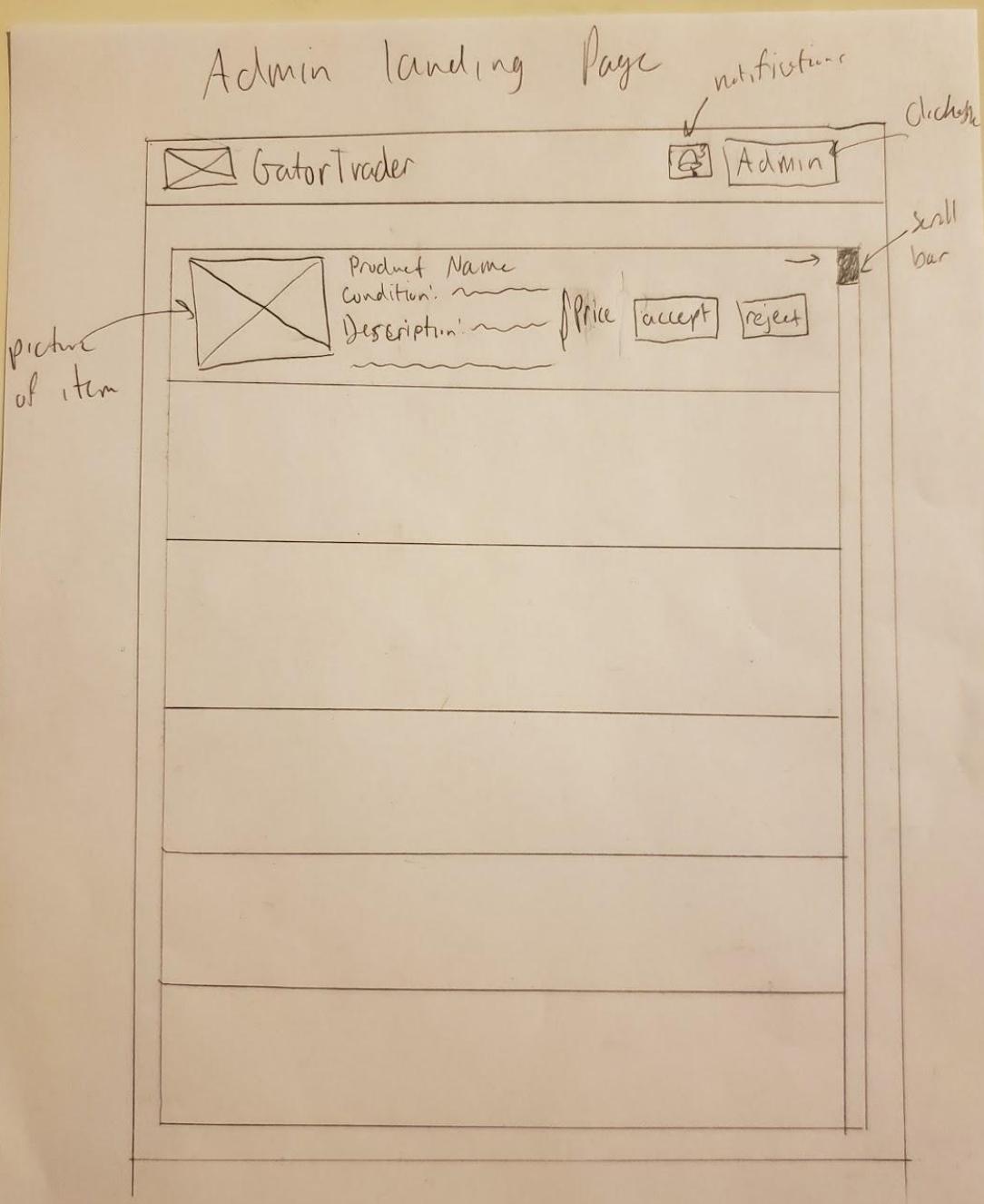
Username

Password

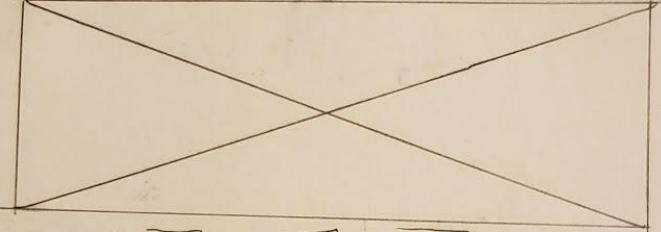
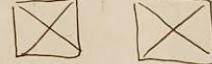
Login →<sup>4</sup>

Register →<sup>3</sup>

# Admin landing Page



## Admin Item Post Page

|   |  |
|---|--|
|  GaterTrader | <input checked="" type="checkbox"/> Admin  |
| Product Name  |  |
| Buttons<br>to<br>see all<br>through<br>photos   |  |
| Picture gallery   |  |
| Description:<br><br><br>  |  |
| Condition:<br><br>  |  |
| \$ Price  |  |
| <input type="button" value="accept"/>   | <input type="button" value="reject"/>  |

#### **4. High level Architecture, Database Organization**

##### DB organization:

All the information will be in a database named users\_database which contains 3 tables in the following configuration.

**Table 1: user\_info : this table will be used to store all users registration information**

1. user\_id
2. first\_Name
3. last\_Name
4. student\_id
5. userName
6. user\_password
7. date\_created

**Table 2: images: table to save photos of items each user is selling.**

1. item\_id // this serves as a unique id for each image
2. display\_name // this will be the name displayed on the page
3. item\_category // this will be the category for the image
4. item\_price
5. date\_updated
6. item\_name // this is the file name for the image
7. item\_type // this represents the image extension. example .png or .IMG
8. item\_size // this has the size of the image file
9. foreign\_id // this will connect user to image

**Table 3: user\_chat: we will use this table to save messages between seller and buyer.**

1. message\_id\_number
2. message
3. sender
4. foreign\_id // this will connect user to chat

**Table 4: Search by %like**

1. item\_id // this id will be connect to the image key to connect the mashup item to the image information.
2. item\_mashup //the description title and category will be saved here as one to look for “Contains” or %like.
3. foreign\_id // this will connect user to image

Media Storage:

- the images will be stored in a folder in the server and then accessed with the information from the image table. also in some cases the image might be converted to save space

Search/filter architecture and implementation:

1. The user will be able to choose a category by name and/or input text to search for items that contain similarities (%like). for example the user will be able to just choose a category like Furniture and all items in that category will be displayed or the user can choose no category and just write a word like “bed” and it will display all items with the word bed in the title or description.

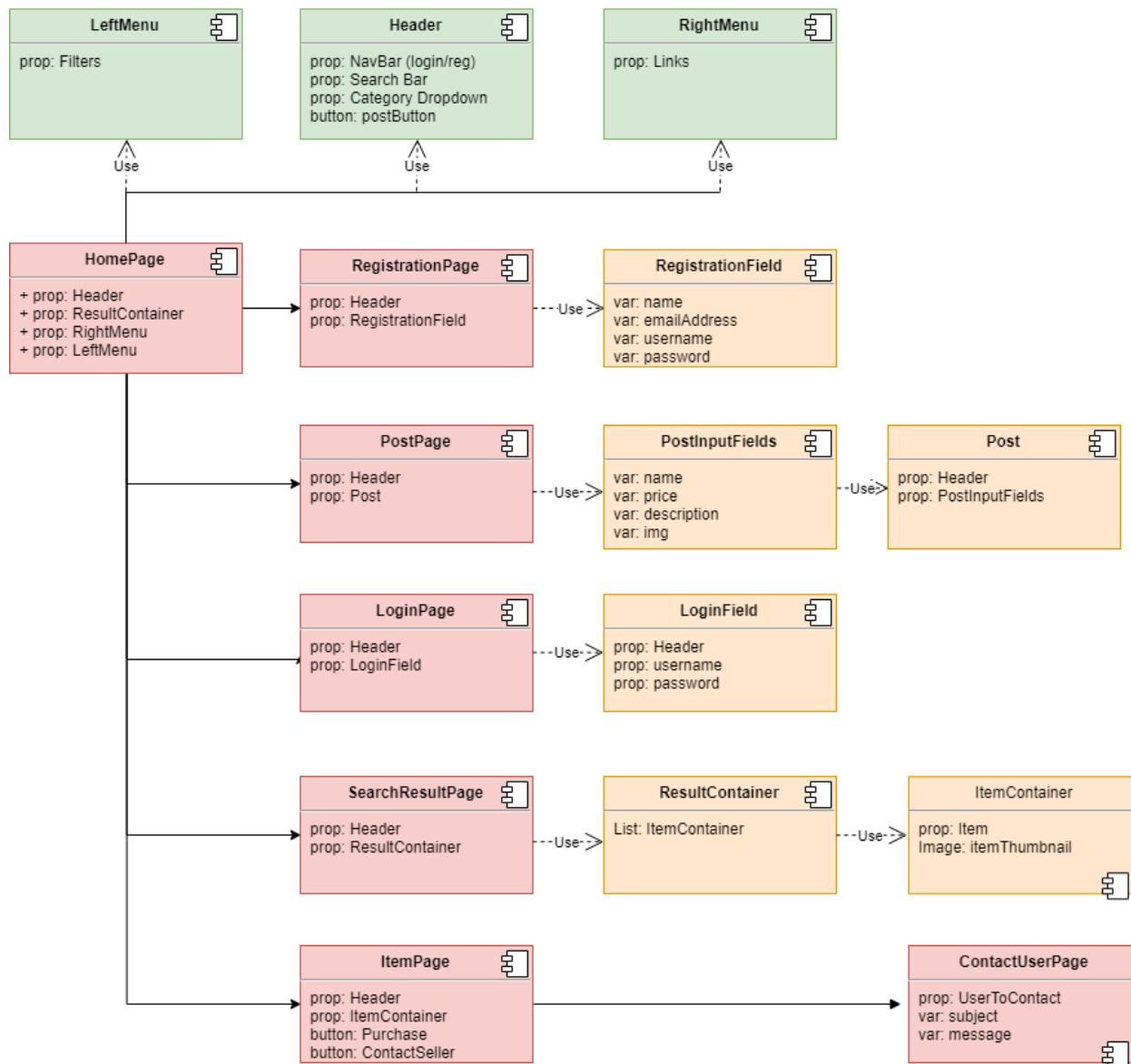
2. The user will be able to sort the search by newest to oldest, and by price.

The database will be coded & organized as follows:

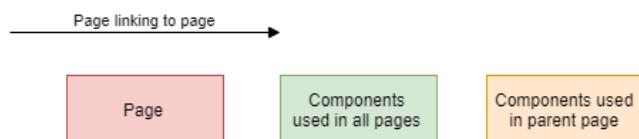
The first table will contain the user registration information and it will contain an id number. The id number will auto increment for each new user. This id will also serve as a foreign key to connect images with users. the second table will contain all images from each user and it will also have an item\_id to identify each picture. In addition, it will be connected with foreign keys to user\_info table and Category table for easy access and retrieval. To add and get information from SQL we will use nodeAPI to connect to the database, we will use express to connect nodeAPI and the view code, and finally for our view code we will use react.

## 5. UML Diagram

### GatorTrader Website



#### LEGEND:



\* Front-end framework: ReactJS

## **6. Key Risks**

- ***Scheduling Risk:*** At this moment Team 01's members are unable to meet outside of class as a team. Due to scheduling conflicts it is not possible to find a time in which all members of the team can be present for planning and group coding sessions.
  - ***Mitigation:*** In order to solve this issue, team lead Marcus Mertilien, will rely heavily on front and back end leads to schedule meetings between their respective members. Team leads will then have a separate meeting in order to coordinate further efforts and keep the project on task.
- ***Skills Risk:*** Our frontend framework React poses a potential risk since it is a relatively new framework. While our project depends on a stable build, React is different in the way it interfaces with the Document Object Model (DOM) and may be a challenge for the team to implement best practices. Asynchronous function calls would be an example.
  - ***Mitigation:*** Team lead Marcus Mertilien, is most familiar with React, and his shared experience will help the team to overcome any potential roadblocks. React while new, is very well documented. Weekly check-ins will ensure team members stay on track.

## **Milestone 3**

# **CSC 648-848 section 01**

## **Milestone 3 on-line review template**

**Fall 2018**

**\*\*\*\*\* Please fill out this template, convert it to PDF and mail as attachment to  
[Petkovic@sfsu.edu](mailto:Petkovic@sfsu.edu) by 11/16/18 noon. You will get feedback soon after.  
Anthony will do off-line review as per M3 Appendix II template \*\*\*\*\***

**In subject line of your e-mail put  
“CSC 648-848 01 M3 online review Team N”**

**Team: 01 Lead: Marcus Mertilien**

**Date: November 16, 2018**

### **1. Please briefly answer each question below:**

- a) *Teamwork:* is the team working out, any related issues
  - i) *The team is having issues communicating,* not all members are active on Slack, informing others of their current work status. Trello was implemented to help combat communication issues, but again some team members are not taking full advantage of the communication tools provided.
- b) *Risks:* list all actual (not hypothetical) risks (schedule, technical, skills etc.) and plans how to resolve them OIR ask for help.
  - i) *Technical:* We are having trouble figuring out how to pass data between pages using React. React is not originally designed for multiple pages, but for single page applications. We are looking for online solutions, but worst-case scenario we will fall back to a single page application model. We've also found that callbacks are one method of passing information between components.

- c) *Coding practices*: Have you decided which coding style to use and actually use it? Make sure you use header comments and some code inline comments too.
  - i) *We have yet to decide on a defined coding style, however as team lead I am trying to enforce some basic structure to minimize a drastic refactor.*

- d) *Usage of proper SE code management practices in github*

Do you have master branch that contain only tested code and is carefully managed?

- Yes, master is locked and controlled by the team lead. Once all testing and development is finished for a milestone, staging is then merged into master.

Do you have development and feature branches

- Yes, each developer is required to branch from our staging branch first before pursuing new features.

Are you doing any code review?

- Yes, developers are strongly encouraged to create a pull request before merging code into staging. This provides a chance for code reviews, time permitting.

Are your comments on github code commits meaningful to reflect enough details?

- Yes, most comments are meaningful enough that you can understand the changes between commits. If time permits I would like to squash the commits for a cleaner working tree.

Are all team members committing on github individually

- Not all team members have contributed meaningful code. Those who have contributed have made meaningful commits and followed the merging process.

- e) *How did you address site security and safe coding practices:*

Are PW encrypted/hashed

- Passwords will be encrypted but did not make it in time for this milestone. Storing passwords in plain text is an obvious mistake, and a production version will enforce password encryption.

Are you doing any input validation on search text entry as specified (<40 alphanumeric characters)?

- The search bar is currently limited to 20 characters of input. We will also apply character limits to all input fields.
  - f) *Digital content* (e.g. images, video) – have you obtained enough (total of 30 or so) images for e.g. 4-5 product categories for your demo, royalty free
  - The database as it is currently is only populated with 10 or so items. Over the Holiday break the database will be populated for proper testing.
- g) Anything else
- Based on this milestone, I am not happy with the performance of Team01. I believe team members do not understand the gravity of this project, and subsequently have made this class a last priority. Communication has become extremely difficult. Deadlines have been ignored, and productivity has suffered. While the work load is now heavy, it is doable with the members who are contributing.

**2. Provide URL to home page, running from your server so it can be tested (ensure UI implementation is responsive)**

- a. <http://gatortrader.herokuapp.com/>

**3. Provide PDF screen shots, ONE PER PAGE, of the following screens (they have to be real coded pages but not necessarily connected to back end)**

- Home page

SF STATE GATOR TRADER

Admin Login | Reg Sell Login Toggle

Categories ▾ Search for..... Search

Cats Calculators Laptops Test Empty Empty



**first image in folder and table**  
Price: stars  
Item Description: this is a test image  
[Details](#)



**second image in folder and table**  
Price: \$ 40.50  
Item Description: this is a test image  
[Details](#)



**Third image test**  
Price: \$ 65.76  
Item Description: this is a test image  
[Details](#)

- Search results (NOTE: search parameters chosen by user have to be persistent)

 Gator Trader

Admin Login | Reg Sell Login Toggle

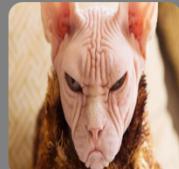
Categories ▾ Cat Search

Cats Calculators Laptops Test Empty Empty



**mycat**  
Price: \$2  
Item Description: Im selling my cat. It claws

[Details](#)



**Mean Cat**  
Price: \$10  
Item Description: This cat is mean, but its still cute

[Details](#)



**Cute Cat**  
Price: \$40  
Item Description: The eyes are green, this cat is really cute, doesn't bite.

[Details](#)

- Item details



Gator Trader

Admin

Login | Reg

Sell

Login Toggle



## Orange Cat

This is an orange cat I want to sell.

---

Price: \$20

His name is Alfredo and he is 5 years old. I am moving and cannot bring him with me.

Seller: alexha415

[Purchase](#) [Contact Seller](#)

- Messaging/contact seller

SF STATE Gator Trader Admin Login | Reg Sell Login Toggle

Page still under construction

[Send Message](#)

SF STATE GATOR GATORS Gator Trader Admin Login | Reg Sell Login Toggle

Page still under construction



[Send Message...](#)

[Send Message](#)

- Item posting

SF STATE GATORS GATOR TRADER

Gator Trader

Admin Login | Reg Sell Login Toggle

User\_Name

Item

Description

Price

Category

Image

Choose File No file chosen

Create Listing

- Seller dashboard

SF STATE Gator Trader Admin Login | Reg Sell Login Toggle

Card image cap

Michael Phan  
\$1,000,000,000  
Group Member

Check Post

- Admin dashboard



Card image cap

Michael Phan  
\$1,000,000,000  
Group Member

Accept Deny

This block represents a modal or card overlay. It contains placeholder text for a card image, the user's name and balance, and their group status. At the bottom, there are two buttons: "Accept" and "Deny".

#### 4. List all major DB tables you have implemented and list their items

a.

```

1 Table: user_info
2
3 # first_Name, last_Name, student_id, userName, user_password
4 alex, ha, 1234567, alexha, 1234567
5 Alex, Ha, 1234, alexha415, 1234
6 alex, ha, 12345, alex_ha, 12345
7 Raul, Serrano, 16284, Anton, 1224
8 Raul, Serrano, 12345, blueheart, 1234
9 Bob, Doe, 1234, hello, 23456
10 tester, test, 0, tester123, test
11 Raul, Serrano, 1234, Username , 1234

```

b.

```

1 Table: images
2
3 # item_id, display_name, item_category, item_descript, item_price, date_updated, item_name,
item_type, item_size, owner, item_sold
4 '1', 'first image in folder and table', '$ 35.50', 'this is a test image ', 'stars', '2018-11-14
06:48:28', 'image-1542178107993.png', 'image/png', '2681', 'hello', NULL
5 '2', 'second image in folder and table', 'stars', 'this is a test image ', '$ 40.50', '2018-11-
14 06:52:27', 'image-1542178347808.png', 'image/png', '2681', 'hello', NULL
6 '5', 'Third image test', 'SF', 'this is a test image ', '$ 65.76', '2018-11-14 07:09:45',
'image-1542179385492.png', 'image/png', '6047', 'hello', NULL
7 '6', 'mycat', 'cat', 'Im selling my cat. It claws', '$2', '2018-11-15 19:53:42', 'image-
1542311622086.jpg', 'image/jpeg', '63220', 'alexha', NULL
8 '7', 'Mean Cat', 'cat', 'This cat is mean, but its still cute', '$10', '2018-11-15 20:46:25',
'image-1542314785286.jpg', 'image/jpeg', '34231', 'alexha', NULL
9 '8', 'Cute Cat', 'cat', 'The eyes are green, this cat is really cute, doesn\'t bite.', '$40',
'2018-11-15 20:46:53', 'image-1542314813745.jpeg', 'image/jpeg', '17865', 'alexha', NULL
10 '9', 'Stunning Cat', 'cat', 'This cat is very proud, it will bite you if you touch it while it
is eating.', '$50', '2018-11-15 20:47:32', 'image-1542314852009.jpeg', 'image/jpeg', '140388',
'alexha', NULL
11 '10', 'a bettle', 'stars', 'a bettle icon for anything', '$300', '2018-11-15 22:10:44', 'image-
1542319844015.png', 'image/png', '4285', 'blueheart', 'sold'
12 '11', 'cat', 'cat', 'this is a cat for testing', '20', '2018-11-15 22:37:42', 'image-
1542321462958.jpeg', 'image/jpeg', '140388', 'alexha', NULL

```

c.

```

1 Table: Search
2
3 'image-1542178107993.png', 'first image in folder and table this is a test image '
4 'image-1542178347808.png', 'second image in folder and table this is a test image '
5 'image-1542179385492.png', 'Third image test this is a test image '
6 'image-1542311622086.jpg', 'mycat Im selling my cat. It claws'
7 'image-1542314785286.jpg', 'Mean Cat This cat is mean, but its still cute'
8 'image-1542314813745.jpeg', 'Cute Cat The eyes are green, this cat is really cute, doesn\'t
bite.'
9 'image-1542314852009.jpeg', 'Stunning Cat This cat is very proud, it will bite you if you touch
it while it is eating.'
10 'image-1542319844015.png', 'a bettle a bettle icon for anything'
11 'image-1542321462958.jpeg', 'cat this is a cat for testing'

```

## **5. List of requested P1 functions – provided by your CEO**

The flowing functions constitute minimal P1 list and you must implement and test them for December demo

- Home page
- Search(with search text validation)
- Search results
- Item details
- Log in and registration
- Item posting
- Message from buyer to seller
- Seller dashboard (for seller items and messages)
- Admin dashboard (backup is to use DB native admin tool but must show ability to approve posted images)

## Milestone 4

# SW Engineering CSC648/848 Fall 2018

## GatorTrader

Milestone 4: Beta Launch

Team 01

December 2, 2018

**Team Lead** - Marcus Mertilien  
**Email:** marcusmertilien@gmail.com

**Front-End Lead** - Alex Ha  
Athena Javier  
Michael Phan

**Back-End Lead** - Raul Serrano  
Daniel Martinez  
Albert Shevchuk

| Revision Date | Notes   |
|---------------|---|
| 12/20/18      | Edited/Rearranged 2.2 with 3.3 and fixed some grammatical errors. -Albert |
|               |   |
|               |   |
|               |   |
|               |   |
|               |   |

## **1. Product Summary**

### **Tired of dealing with strangers? Use Gator Trader!**

Are you a busy San Francisco State University student? Then we have an awesome new app that is going to help you purchase and sell goods online to nearby students just like you! Gator Trader was specifically designed by an outstanding crew of engineers to help SFSU students with their needs. Our application is user friendly, sophisticated, and super convenient. Only SFSU students now have the advantage to post, view, and message each other via our website making transactions simple so you can kiss that moving truck goodbye. Dealing with local students doesn't just make our product unique, but also an accommodation to you. Visit our page at <http://gatortrader.herokuapp.com/>



**Thanks for looking :)**

## **1.1 Functional Commitments**

9. Guest users shall be able to browse through the website.
10. Guest users shall be able to browse by categories.
11. Guest users shall be able to search on the search engine.
12. All users who wants to purchase an item shall create an account.
13. Registered users shall be able to contact any sellers.
14. All users shall be presented the Policy while they're creating their account.
15. Registered users shall include contact information.
16. Registered users shall be able to look at the lists of the items they posted for sell.
17. Registered users shall able to manage their account. Shall able to remove or edit postings.
18. Guest users shall be able to use sorted feature: Low to high prices, High to low prices, Alphabetical.

## **2. Usability Test Plan**

### **2.1 Test Objectives:**

- Post ad with Tagged Image File format (.tif) image using Windows 10 on the latest Internet Explorer Browser.
- Post ad with Graphics Interchange Format (.gif) image using Windows 10 on the latest Mozilla Firefox Browser.
- Post ad with Joint Photographic Experts Group (.jpg) image using Windows 10 on the latest Opera Browser.
- Post ad with Portable Network Graphics Image (.png) image using Windows 10 on the latest Google Chrome Browser.
- Post ad with Tagged Image File format (.tif) image using Mac OS High Sierra on the latest Google Chrome Browser.
- Post ad with Graphics Interchange Format (.gif) image using Mac OS High Sierra on the latest Opera Browser.
- Post ad with Joint Photographic Experts Group (.jpg) image using Mac OS High Sierra on the latest Mozilla Firefox Browser.
- Post ad with Portable Network Graphics Image (.png) image using Mac OS High Sierra the latest Internet Explorer Browser.

### **2.2 Questionnaire**

|  | <b>Strongly Agree</b> | <b>Agree</b> | <b>Neutral</b> | <b>Disagree</b> | <b>Strongly Disagree</b> |
|--|-----------------------|--------------|----------------|-----------------|--------------------------|
| <b>The test plan was simple to read and follow</b> |                       |              |                |                 |                          |
| <b>The application was simple to navigate</b>      |                       |              |                |                 |                          |
| <b>This was a thorough Test Plan</b>               |                       |              |                |                 |                          |
| <b>Any</b>   |                       |              |                |                 |                          |

|           |  |
|-----------|--|
| Comments? |  |
|-----------|--|

### 3. QA Test Plan

For the usability test portion we chose the Upload Image function to be thoroughly tested. The plan it to try two operating systems: Windows 10 version 1809 and Mac OS High Sierra Version 10.13.6. In conjunction 4 different popular web browsers will be used at a random order desired by the technician which are stated to be Firefox Version 70.0 Nightly, Google Chrome Version 70.0.3538.110, Opera Version 57.0.3098.76. Internet Explorer Version 11.

The starting point will be <http://gatortrader.herokuapp.com/> which is the home page and the user will post four items.

#### 3.1 Test Objectives

The objective is to comprehensively test the upload function of GatorTrader in order to ensure that upload results are fully functional and display the image on the posting page.

#### 3.2 System Setup

Processor: Intel Quad Core i7

Ram: 16GB Ram

Operating System: Dual boot: Mac OS X High Sierra, Windows 10

Browser 1: Google Chrome

Browser 2: Mozilla Firefox

Browser 3: Internet Explorer

Browser 4: Opera

URL: <http://gatortrader.herokuapp.com/>

### **3.3 Feature to be Tested**

The intended user is a qualified Q&A personnel who is also a student. They shall navigate to the top left corner where the gray “Sell” button is and click it. Assuming they have not created an account, the user will be prompted to register. User will have to input their First Name, Last Name, SFSU Student ID, Username, and Password. Then click on the Green Box below named “Register” and they will be redirected to the posting page. Here the user will input their Username, Name of the item they are selling, Description, Price, Category, and a upload box at the very bottom that will allow the user to browse their device and select an image to go along with the post. The user will create 4 ads with a Windows Machine and 4 ads with a Macintosh. The purpose of this is to test the limits of common image file formats to see if they are compatible with the application being tested. The three most common formats widely used that's expected to pass will be Joint Photographic Experts Group (.jpg), Graphics Interchange Format (.gif) and Portable Network Graphics Image (.png). While the white elephant in the room that's expected to fail will be Tagged Image File Format (.tif), this format is widely used but not as common. The user will create the 4 different ads with the 4 different file formats then switch the operating system and go to the same home webpage but this time just navigate to the “Login | Reg” tab to the left of the “Sell” tab where the user can simply log on with their existing username and password on the left hand side of the page and continue posting. For testing purposes user will be responsible for acquiring the proper format images with the proper licenses via google search. It is solely up to the user to follow the criteria to test the individual web browsers in any order they wish to.

- The upload button shall integrate with afore mentioned web browsers and operating systems to be functional in a way to retrieve images files stored on the device.
- At least 3 image file extensions shall be supported for upload to the database.
- All images uploaded shall be shown on the ad after it is posted.

### **3.4 Test Cases**

The test cases are as followed: 4 different web browsers, 2 different operating systems, but most importantly are the 4 individual image format files. More detailed information seen on section 2.1 and 3.3 .

### **3.5 Test Results**

The test results are as followed: All 4 browsers along with both operating systems loaded the pages and uploaded the images accordingly. All expected image format files succeeded the upload and were seen on the individual ads posted. The only format that failed was Tagged Image File format (.tif) that succeeded the upload but failed to be seen on the ad posting with the error message “Card Image Cap”. This was expected and is completely normal for the operation conducted. Thus, concluding these results successful and moving forward. All data was checked, and all data has been uploaded.

### 3.6 QA TABLE

|              | .jpg | .png |                   | .gif | .tif |            |
|--------------|------|------|-------------------|------|------|------------|
| Macintosh OS | ✓    |      | Opera             | ✓    |      | Windows 10 |
| Macintosh OS | ✓    |      | Mozilla Firefox   | ✓    |      | Windows 10 |
| Macintosh OS |      | ✓    | Internet Explorer |      | ✗    | Windows 10 |
| Macintosh OS |      | ✓    | Google Chrome     |      | ✗    | Windows 10 |

✓ = Pass on Windows 10

✓ = Pass on Macintosh OS

✗ = Fail on Windows 10

✗ = Fail on Macintosh OS

## **4. Code Review:**

### **4.1 Coding Style**

We opted to use several standards while developing this application. For our naming conventions, we decided to use meaningful names for our identifiers, and classes. Since our project is written completely in Javascript we are implementing the ES6 standard, enforced by ESLint.

### **4.2 Review**

This code review is a sample of our internal code review process. The code reviewed was the back-end of the login function. Below are the conversation exchange through GitHub and code snippet relevant to the review.

## 4.2.1 GitHub Conversation Exchange

### Update LoginForm.js #23

**Merged** marcusmertilien merged 1 commit into `staging_GatorTrader` from `HelloWorld-patch-1` 7 hours ago

Conversation 10 Commits 1 Checks 0 Files changed 1

Changes from all commits ▾ Jump to... ▾ +23 -16

Diff settings ▾ Review changes ▾

39 src/components/LoginForm/LoginForm.js Show comments Copy path View file

```
@@ -4,7 +4,8 @@ import './LoginForm.css';
 4   4   import { browserHistory } from 'react-router';
```

This conversation was marked as resolved by marcusmertilien Hide conversation

marcusmertilien 7 hours ago  
Looks good. Thanks for fixing this. Frontend needs to go through the codebase and add Header comments at some point.

HelloWorld 39 minutes ago  
sure, I have used axios for getting the data from backend. axios is very simple to use and it has more features than fetch.

Reply...

Unresolve conversation

```
5   5 import {BrowserRouter, Route} from 'react-router-dom';
```

This conversation was marked as resolved by **marcusmertilien**

 Hide conversation

 **marcusmertilien** 7 minutes ago

Missing header comment

 Reply...

**Unresolve conversation**

**Start a new conversation**

```
6   6 import Home from "../views/Home";
```

```
7 - const API_URL = "http://ec2-50-112-37-217.us-west-2.compute.amazonaws.com/"
```

This conversation was marked as resolved by **marcusmertilien**

 Hide conversation

 **marcusmertilien** 7 minutes ago

Is there a reason we switched from Fetch to Axios?

 **almondjoys** 4 minutes ago

i think switching to axios is fine but we should share the knowledge between front end so we know what is going on

 Reply...

## Reviewed Code Snippet

```
Start a new conversation

    7 + const axios = require('axios')
    8 +
  8   9     class LoginForm extends Component {
  9   10
 10   11
 11  12     @@ -14,7 +15,6 @@ class LoginForm extends Component {
 12  13       this.state = {
 13  14         username: '',
 14  15         password: '',
 15  16         submittedPassword: ''
 16  17     }
 17  18   }
 18  19 }
 19  20
 20  21     @@ -25,23 +25,24 @@ class LoginForm extends Component {
 21  22       }
 22  23       UpdatePassword = (password) => {
 23  24         this.setState({
 24  25           submittedPassword: password.target.value
 25  26     })
 26  27   }
 27  28     GetUser = (e) => {
 28  29       e.preventDefault()
 29  30     }
 30  31     if(this.state.username !== ''){
 31  32       fetch(API_URL + 'login/' + this.state.username)
 32  33       //take response turn into json
 33  34       .then(response => { return response.json() } )
 34  35
 35  36
 36  37
 37  38
 38  39
 39  40
 40  41
 41  42
 42  43
 43  44     console.log(valueBack)
 44  45     if(valueBack == 'true'){
 45  46       browserHistory.push({
 46  47         pathname: '/',
 47  48         state: {
 48  49       })
 49  50     }
 50  51   }
 51  52     else{
 52  53       /**
 53  54         * TODO - create an error like "Email or password incorrect please check your info and try again"
 54  55         */
 55  56
 56  57       }
 57  58     })
 58  59   }
 59  60   }
 60  61   }
 61  62
 62  63   }
 63  64 }
 64  65   }
 65  66   }
 66  67   render(){
 67  68     return (
 68  69     @@ -69,7 +76,7 @@ class LoginForm extends Component {
 69  70       </FormGroup>
 70  71       <FormGroup id="FormElement">
 71  72         <Label id="Label" for="Password">Password</Label>
 72  73         <Input type="password" name="password" id="password" minlength="4" maxlength="20" value={this.state.su
 73  74         <Input type="password" name="password" id="password" minlength="4" maxlength="20" value={this.state.pa
 74  75         </Input>
 75  76       </FormGroup>
```

## 5) Self-check on best practices for security

### 5.1 Major Assets Being Protected

The following user information is being protected:

- Name
- Password
- Email address
- Listing address
- Sales Items

### 5.2 Encryption of Passwords in the Database

The screenshot shows the MySQL Workbench interface. On the left, the sidebar displays management, instance, performance, and schema sections. The schema section shows a table named 'user\_info' with columns: first\_name, last\_name, student\_id, user\_name, and user\_password. A query window titled 'Query 8' contains the SQL command: 'SELECT \* FROM users\_database.user\_info;'. The results grid shows several rows of data, including names like 'alex', 'Alex', 'Raul', 'anton', 'Jonth the 3rd', 'Serrano', 'jonh', 'tester', and their corresponding hashed passwords.

| first_name    | last_name | student_id | user_name   | user_password                                |
|---------------|-----------|------------|-------------|--|
| alex          | ha        | 1234567    | alexha      | \$2a\$10\$erIaP3bAvVqG7kJqnoX.gW1pBC0zI...   |
| Alex          | Ha        | 1234       | alexha415   | \$2a\$10\$ss3tZorV8sZQT3P39c1n9eXaUHe2tnw... |
| Raul          | Serrano   | 16284      | Anton       | \$2a\$10\$55WUlnx3lNdw5eZ8v6GpZ.pnaDZSsa...  |
| anton         | fernandez | 12345      | blackheart  | \$2a\$10\$6YMWvwqj7hdQAY7AHTojaMuugR3...     |
| Raul          | Serrano   | 12345      | blueheart   | \$2a\$10\$ssm0WCU634c91Ug0rV7zwOJg1GcV...    |
| Jonth the 3rd | Sacarias  | 12345555   | greatScotch | \$2a\$10\$RY453lkBnI0zo0fbk81OwhHbOp...      |
| jonh          | jose      | 12345533   | greenheart  | \$2a\$10\$sp4xNOKCebz.7zqQRkf8uYLsjbtqSF...  |
| tester        | padilla   | 12345532   | yellowheart | \$2a\$10\$BxsWgPdKzTCgvBJ35Kr.K7UN/Fa0...    |

At the bottom, the status bar indicates 'Query Completed'.

### **5.3 Input Data Validation**

The following user input is checked for validation on the front-end by built in html validation and bootstrap for registration, login and posting.

Listing details:

- Price
- Description
- Name of the item

Search query input:

- For example, if a user attempts to search “jgdfuhdkghdlfghlikhsulgkjhgkjehrkfghierkhekhrhgerhtkjerhjrbjerjthbjerb”, the field will only take up to 40 characters.

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

|    | <b>Non-Functional Spec</b>  | <b>Status</b> |
|----|---|---------------|
| 1. | Application shall be developed using React, Heroku, Express, MySQL. | DONE          |

|     |  |          |
|-----|--|----------|
| 2.  | Application shall be designed for desktop and laptops.<br><br>The browsers that support it are Chrome, Mozilla, and Internet Explorer and Opera. | DONE     |
| 3.  | Application shall render well on mobile  | ON TRACK |
| 4.  | Data will be stored on MySQL.  | DONE     |
| 5.  | No more than 50 users can access the website at a 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.  | DONE     |
| 8.  | Application shall be very easy to use.   | DONE     |
| 9.  | Google analytics shall be added  | ON TRACK |
| 10. | No E-mail clients shall be allowed   | DONE     |
| 11. | No pay functionality only messages.  | DONE     |
| 11. | The website will display “SFSU-Fulda Software Engineering Project CSC 648-848, Fall 2018. For Demonstration Only” at the top of the page.        | ON TRACK |

## Product Screen Shots

SF STATE GATOR TRADER

Categories ▾ Search for..... Search

15 Most Recent Items

There are currently 12 items in our database

|  |  |  |  |  |
|--|--|--|--|--|
|  <p><b>Used Bed</b><br/>Price: \$80<br/>Item Description: Used bed that is still in good condition.</p> <p><a href="#">Details</a></p> |  <p><b>electric scooter</b><br/>Price: \$40<br/>Item Description: It is a brand new electric scooter that can go more than 10mph and its really cheap</p> <p><a href="#">Details</a></p> |  <p><b>Toshiba 800W stereo</b><br/>Price: \$100<br/>Item Description: this is an awesome stereo I got for my room, but once in my room I realize it takes out too much space therefore, I</p> <p><a href="#">Details</a></p> |  <p><b>a beautiful chair</b><br/>Price: \$30<br/>Item Description: I am selling my chair. I have had this chair for some time now and although I like it I don't have enough space to</p> <p><a href="#">Details</a></p> |  <p><b>almost new sofa</b><br/>Price: \$100<br/>Item Description: selling my used almost new sofa. I had this sofa for sometime now and now that I am close to graduating I want to sell it</p> <p><a href="#">Details</a></p> |
|--|--|--|--|--|

[Categories ▾](#)

Search for.....

Showing 4 of 4 results

## Sort

- Lowest Price
- Highest Price
- Most Recent

**Old calculator**

Price: \$65

Item Description: I am selling a used calculator. I am graduating so I probably wont need it anymore. PM me if the price isn't right!

**Used headphones**

Price: \$80

Item Description: These headphones are awesome, there's a little bit of wear on the right side but it works great and the quality is

**Toshiba 800W stereo**

Price: \$100

Item Description: this is an awesome stereo I got for my room, but once in my room I realize it takes out too much space therefore, I

**electric scooter**

Price: \$40

Item Description: It is a brand new electric scooter that can go more than 10mph and its really cheap



Gator Trader

About Sell manilaTugBoat Logout

## About Us

Gator Trader Albert Alex Athena Daniel Marcus Michael Raul



Team 01

Hello, this is team 01 for CSC 648 at San Francisco State University. The purpose of this website is to simulate a buyer and seller experience similar to amazon or ebay. We are currently on milestone 0. Feel free to browse our about pages to learn more about each of us.



## Post An Item For Sale

Username

\*Item

\*Description

\*Price

\*Category

\*Image  
 No file chosen

\*I have read and understand the terms and agreement policy.

[Back](#) [Create Listing](#)



**Username**  
  
**Password**

**First**  
  
**Last**  
  
**Student ID**  
  
**Username**  
  
**Password**  
  
 [Terms & Agreement Policy](#)



Gator Trader

About

Sell

manilaTugBoat

Logout

Messages between you and bobParker for Toshiba 800W stereo

manilaTugBoat

Can we meet?

Send Message...

Send Message



## YvonneY123's Dashboard

## Messages

| Item           | Message  | SentBy    |
|----------------|--|-----------|
| CS Textbook    | ok when and where can we meet so I can buy it??                                      | anthony   |
| Old calculator | testing for many messages  | alexha415 |
| CS Textbook    | hello, I am interested on buying the CS textbook you have for sell                   | anthony   |
| Old calculator | testing for many messages  | alexha415 |
| CS Textbook    | testing for many messages  | alexha415 |
| Old calculator | Thats pretty expensive, but this is for my education so I'll take it. Where to meet? | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
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| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | testing for many messages  | alexha415 |
| Old calculator | whered you buy it  | alexha415 |
| Old calculator | So what kind of calculator is it   | alexha415 |
| Old calculator | Hey  | alexha415 |
| Old calculator | Dangit! okay.  | Schmoe100 |
| Old calculator | Hey can I buy this calculator, I'll offer 60!  | Schmoe100 |
| Old calculator | Tomorrow is the 22nd   | alexha415 |
| Old calculator | Sure, lets meet at Caeser Chavez tmrw?   | alexha415 |
| Old calculator | \$45 for the calc?   | alexha415 |

## Key Database Tables

Screenshot of MySQL Workbench showing the results of a SELECT query on the 'messages' table.

The query is:

```
1 • SELECT * FROM users_database.messages;
```

The results grid shows the following data:

| message_id | item_id                  | seller     | buyer      | message   | sent_by    | date_sent           |
|------------|--------------------------|------------|------------|---|------------|---------------------|
| 18         | image-1545440854626.jpg  | alexha415  | YvonneY123 | cat looks cute, can you sell it for cheap?            | alexha415  | 2018-12-22 01:04:00 |
| 19         | image-1545440854626.jpg  | YvonneY123 | alexha415  | No this is as cheap as I can go sorry!                | alexha415  | 2018-12-22 01:00:21 |
| 20         | image-1545440854626.jpg  | YvonneY123 | alexha415  | \$45 for the calc?                                    | alexha415  | 2018-12-22 01:09:36 |
| 21         | image-1545440854626.jpg  | YvonneY123 | alexha415  | How about \$50, I'll even give you the box it came in | YvonneY123 | 2018-12-22 01:09:58 |
| 22         | image-1545440854626.jpg  | YvonneY123 | alexha415  | Sure, lets meet at Caeser Chavez tmrw?                | alexha415  | 2018-12-22 01:10:22 |
| 23         | image-1545440854626.jpg  | YvonneY123 | alexha415  | Tomorrow is the 22nd                                  | alexha415  | 2018-12-22 01:10:30 |
| 23         | image-1545440854626.jpg  | YvonneY123 | alexha415  | Sounds good!  | YvonneY123 | 2018-12-22 01:10:46 |
| 24         | image-1545440854626.jpg  | YvonneY123 | Schmoe100  | Hey can I buy this calculator, I'll offer 60!         | Schmoe100  | 2018-12-22 01:13:56 |
| 25         | image-1545440854626.jpg  | YvonneY123 | Schmoe100  | Ooh sorry I already promised someone I would...       | YvonneY123 | 2018-12-22 01:14:19 |
| 26         | image-1545440751271.jpg  | YvonneY123 | alexha415  | Thats pretty expensive, but this is for my educat...  | alexha415  | 2018-12-22 01:15:15 |
| 27         | image-1545440854626.jpg  | YvonneY123 | Schmoe100  | Dangit! okay.   | Schmoe100  | 2018-12-22 01:16:04 |
| 28         | image-1545440751271.jpg  | YvonneY123 | anthony    | hello, I am interested on buying the CS textbook...   | anthony    | 2018-12-22 01:19:35 |
| 29         | image-1545440751271.jpg  | YvonneY123 | anthony    | Sure whats your offer                                 | YvonneY123 | 2018-12-22 01:19:44 |
| 30         | image-1545440751271.jpg  | YvonneY123 | anthony    | This is a book for 648                                | YvonneY123 | 2018-12-22 01:21:01 |
| 31         | image-1545440751271.jpg  | YvonneY123 | anthony    | Its a pretty hard class                               | YvonneY123 | 2018-12-22 01:21:05 |
| 32         | image-1545440751271.jpg  | YvonneY123 | anthony    | Its a pretty cool class though I learned a lot        | YvonneY123 | 2018-12-22 01:22:17 |
| 33         | image-1545440751271.jpg  | YvonneY123 | anthony    | React is hard to use and working in a team is pr...   | YvonneY123 | 2018-12-22 01:22:25 |
| 34         | image-1545440751271.jpg  | YvonneY123 | anthony    | But it was a learning experience                      | YvonneY123 | 2018-12-22 01:22:32 |
| 35         | image-1545440751271.jpg  | YvonneY123 | anthony    | ok when and where can we meet so I can buy it??       | anthony    | 2018-12-22 01:23:48 |
| 36         | image-1545441445911.jpeg | Anthony    | YvonneY123 | Thats a pretty cool sofa                              | YvonneY123 | 2018-12-22 01:24:55 |
| 37         | image-1545441445911.jpeg | Anthony    | YvonneY123 | Can you sell it for \$40                              | YvonneY123 | 2018-12-22 01:25:02 |
| 38         | image-1545441445911.jpeg | Anthony    | YvonneY123 | \$100 is too expensive I just paid rent               | YvonneY123 | 2018-12-22 01:25:13 |
| 39         | image-1545440854626.jpg  | YvonneY123 | alexha415  | Hey   | alexha415  | 2018-12-22 01:37:21 |
| 40         | image-1545440854626.jpg  | YvonneY123 | alexha415  | So what kind of calculator is it                      | alexha415  | 2018-12-22 01:37:25 |
| 41         | image-1545440854626.jpg  | YvonneY123 | alexha415  | whered you buy it                                     | alexha415  | 2018-12-22 01:37:28 |
| 42         | image-1545440854626.jpg  | YvonneY123 | alexha415  | testing for many messages                             | alexha415  | 2018-12-22 01:37:51 |
| 43         | image-1545440854626.jpg  | YvonneY123 | alexha415  | testing for many messages                             | alexha415  | 2018-12-22 01:37:51 |
| 44         | image-1545440854626.jpg  | YvonneY123 | alexha415  | testing for many messages                             | alexha415  | 2018-12-22 01:37:51 |
| 45         | image-1545440854626.jpg  | YvonneY123 | alexha415  | testing for many messages                             | alexha415  | 2018-12-22 01:37:52 |

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar:** Includes icons for file operations (New, Open, Save, Print, Find, Copy, Paste, Undo, Redo), a search bar, and a connection status.
- Query List:** Shows tabs for "Query 8", "SQL File 5\*", "images", and the active tab, "user\_info".
- Query Editor:** Displays the SQL query: `SELECT * FROM users_database.user_info;`
- Result Grid:** Shows the data from the query in a tabular format. The columns are: first\_Name, last\_Name, student\_id, userName, and user\_password. The data includes rows for Alex Ha, Antonio Hernandez, Bob Parker, billy zima, John Doe, Marcus Mertilien, Joe Schmoe, Yvonne Yarn, and a row with all NULL values.
- Bottom Bar:** Includes a zoom level (100%), a 1:1 ratio icon, a "Result Grid" button, a "Filter Rows" button, a search input field, edit tools (pencil, copy, paste, delete), and export/import options.

| first_Name | last_Name | student_id | userName      | user_password                                |
|------------|-----------|------------|---------------|--|
| Alex       | Ha        | 143567     | alexha415     | \$2a\$10\$FjRwd8JfcvOnp9d73KFNFuVvXYr0H/...  |
| Antonio    | Hernandez | 123456780  | Anthony       | \$2a\$10\$p2pfAiBddT.3bnVSkqiwOXAm dpByaS... |
| Bob        | Parker    | 123123123  | bobParker     | \$2a\$10\$d/.n.6olxyAW0QjoRBW1CeCZMzQQo8...  |
| billy      | zima      | 987654321  | bzim100       | \$2a\$10\$WSCqCHVOYNwrcxFs5ciZZOOzWVe...     |
| John       | Doe       | 123412341  | doeJohn       | \$2a\$10\$z.k2dEE9sgHpOYdVljMleOdlo2whOm...  |
| Marcus     | Mertilien | 101010101  | manilaTugBoat | \$2a\$10\$Q7b2Ppfhj2/X/Cml05XnCONXd0vwNq...  |
| Joe        | Schmoe    | 111111111  | Schmoe100     | \$2a\$10\$pACesyCEbx3P2rowapK5QO/i/lu99CC... |
| Yvonne     | Yarn      | 123456789  | YvonneY123    | \$2a\$10\$5hFvJudguFKuL.Zy/xHNzOonSN7rHb0... |
| NULL       | NULL      | NULL       | NULL          | NULL   |

```
1 • | SELECT * FROM users_database.search;
```

100%

1:1

Result Grid



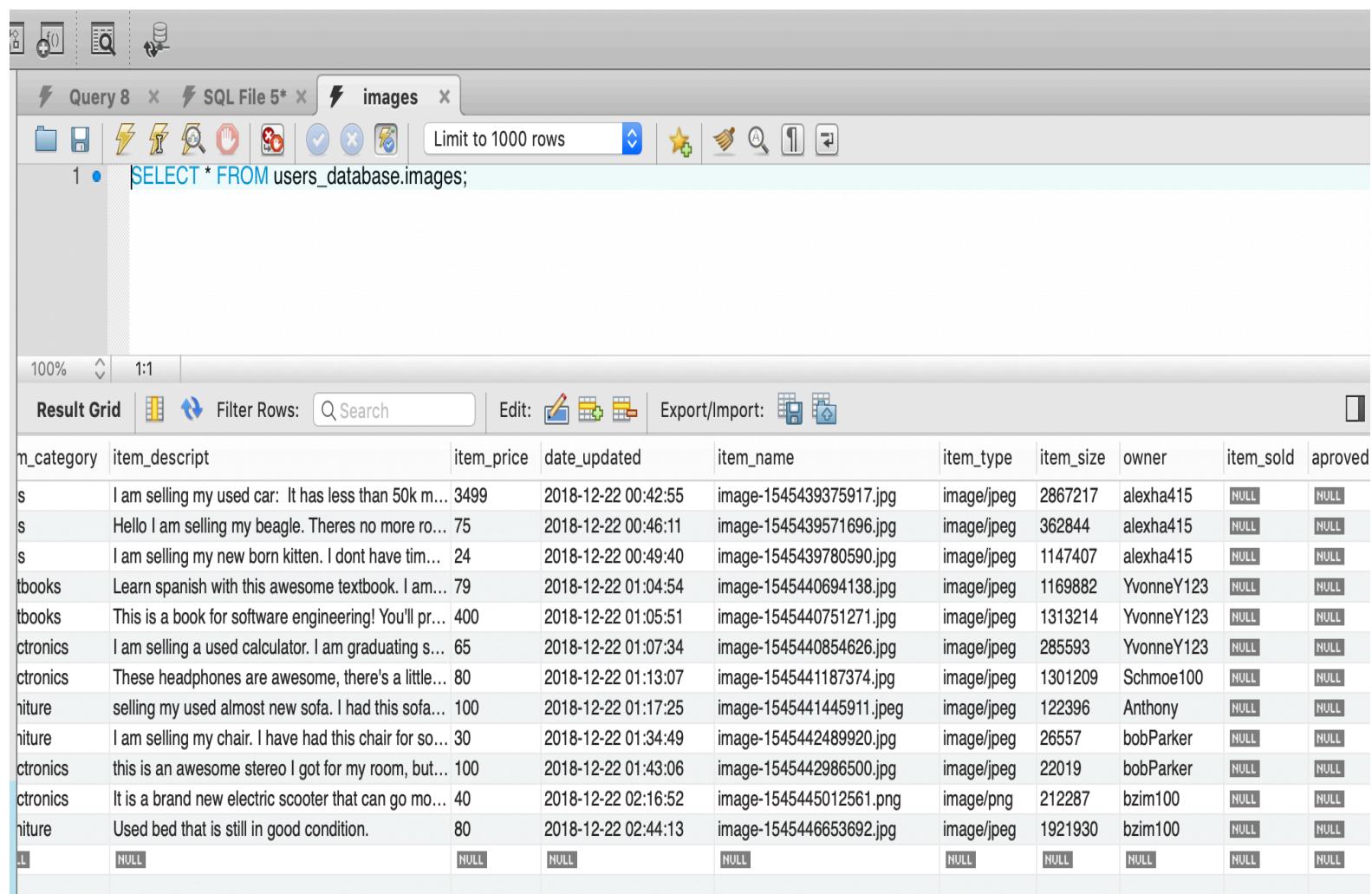
Filter Rows:

Search

Export:

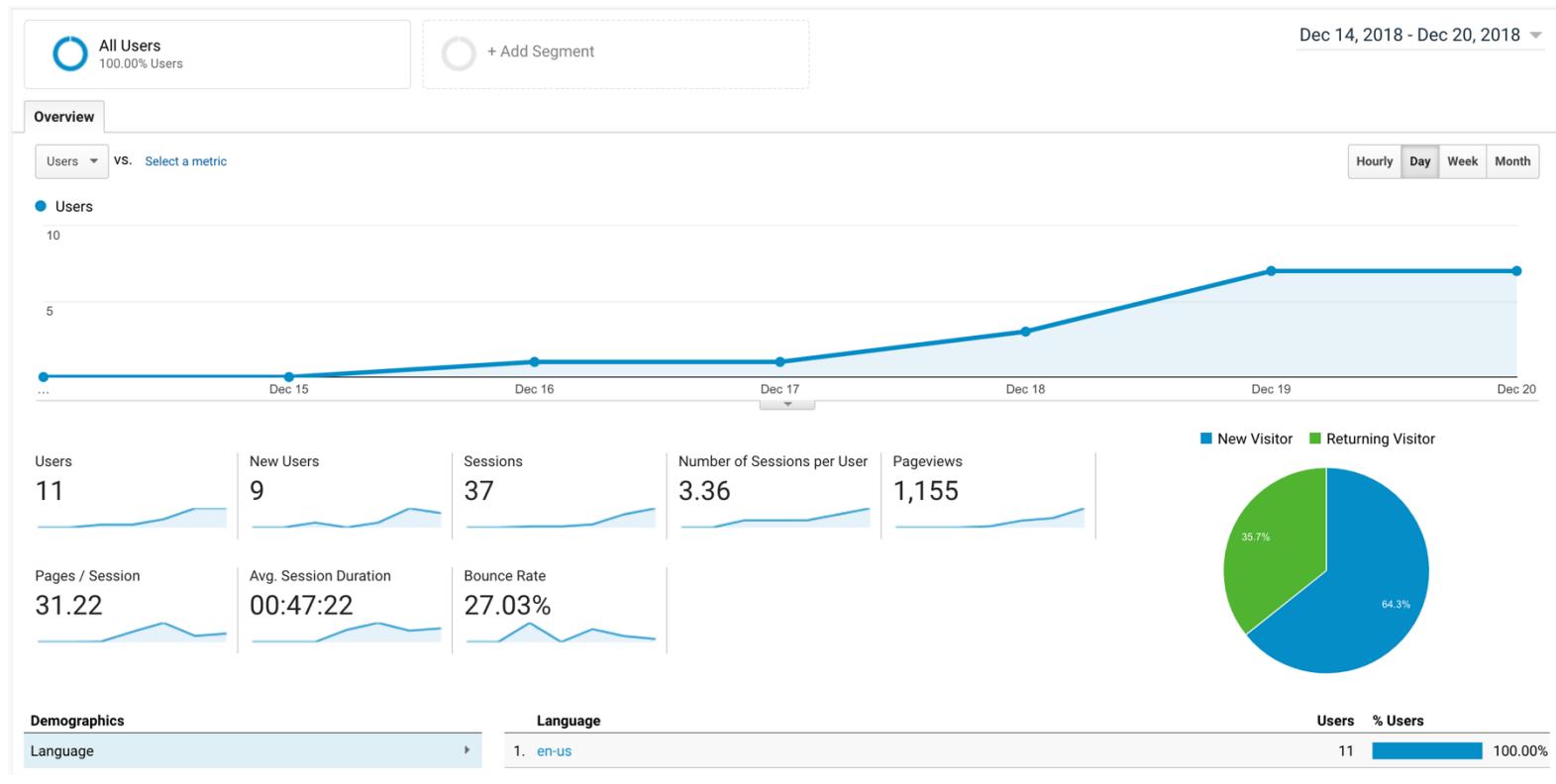


| owner                     | item_mashup  |
|---------------------------|--|
| ▶ image-1545439375917.jpg | Used Car I am selling my used car: It has less t...    |
| image-1545439571696.jpg   | Beagle 2 years old Hello I am selling my beagle....    |
| image-1545439780590.jpg   | new born cat I am selling my new born kitten. I...     |
| image-1545440694138.jpg   | Spanish textbook Learn spanish with this aweso...      |
| image-1545440751271.jpg   | CS Textbook This is a book for software engine...      |
| image-1545440854626.jpg   | Old calculator I am selling a used calculator. I a...  |
| image-1545441187374.jpg   | Used headphones These headphones are awes...           |
| image-1545441445911.jpeg  | almost new sofa selling my used almost new sof...      |
| image-1545442489920.jpg   | a beautiful chair I am selling my chair. I have ha...  |
| image-1545442986500.jpg   | Toshiba 800W stereo this is an awesome stereo...       |
| image-1545445012561.png   | electric scooter It is a brand new electric scooter... |
| image-1545446653692.jpg   | Used Bed Used bed that is still in good condition.     |



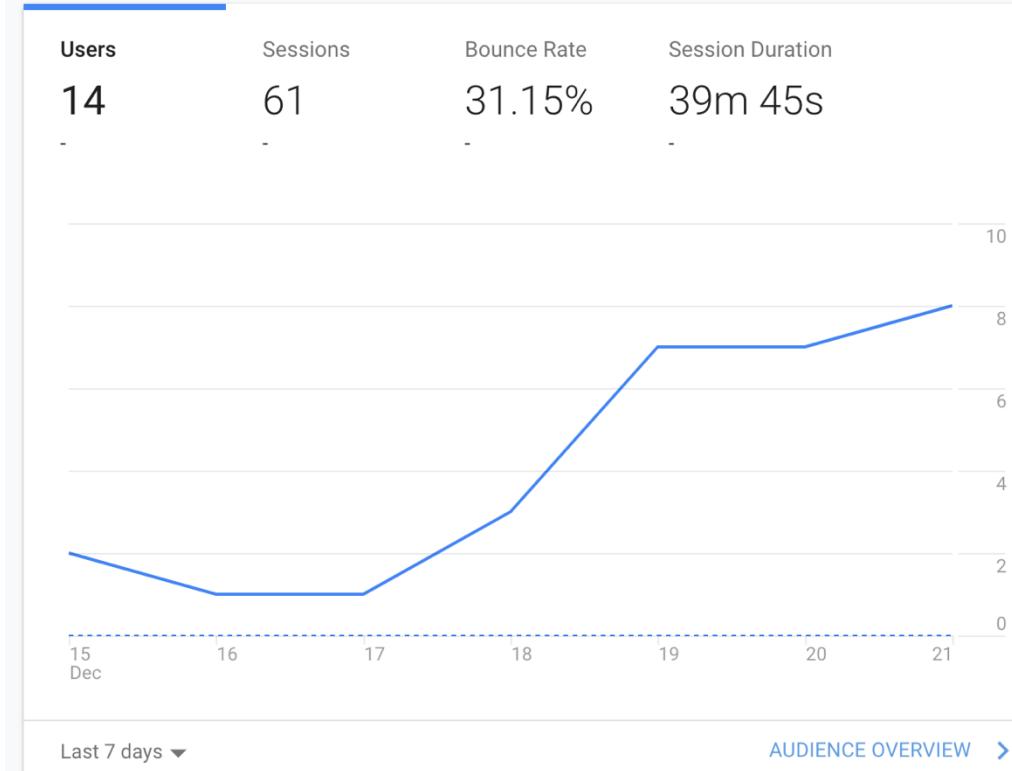


# Google Analytics

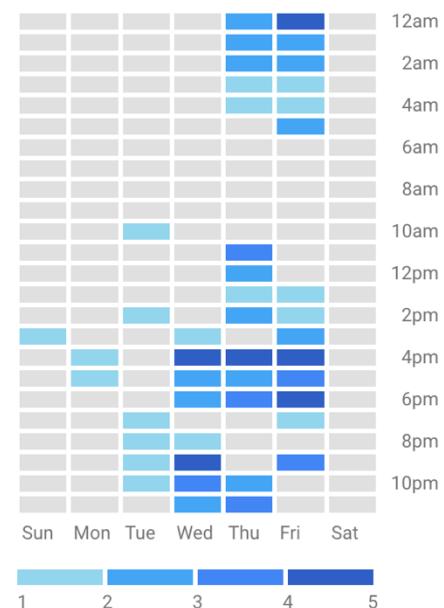


Google Analytics Home

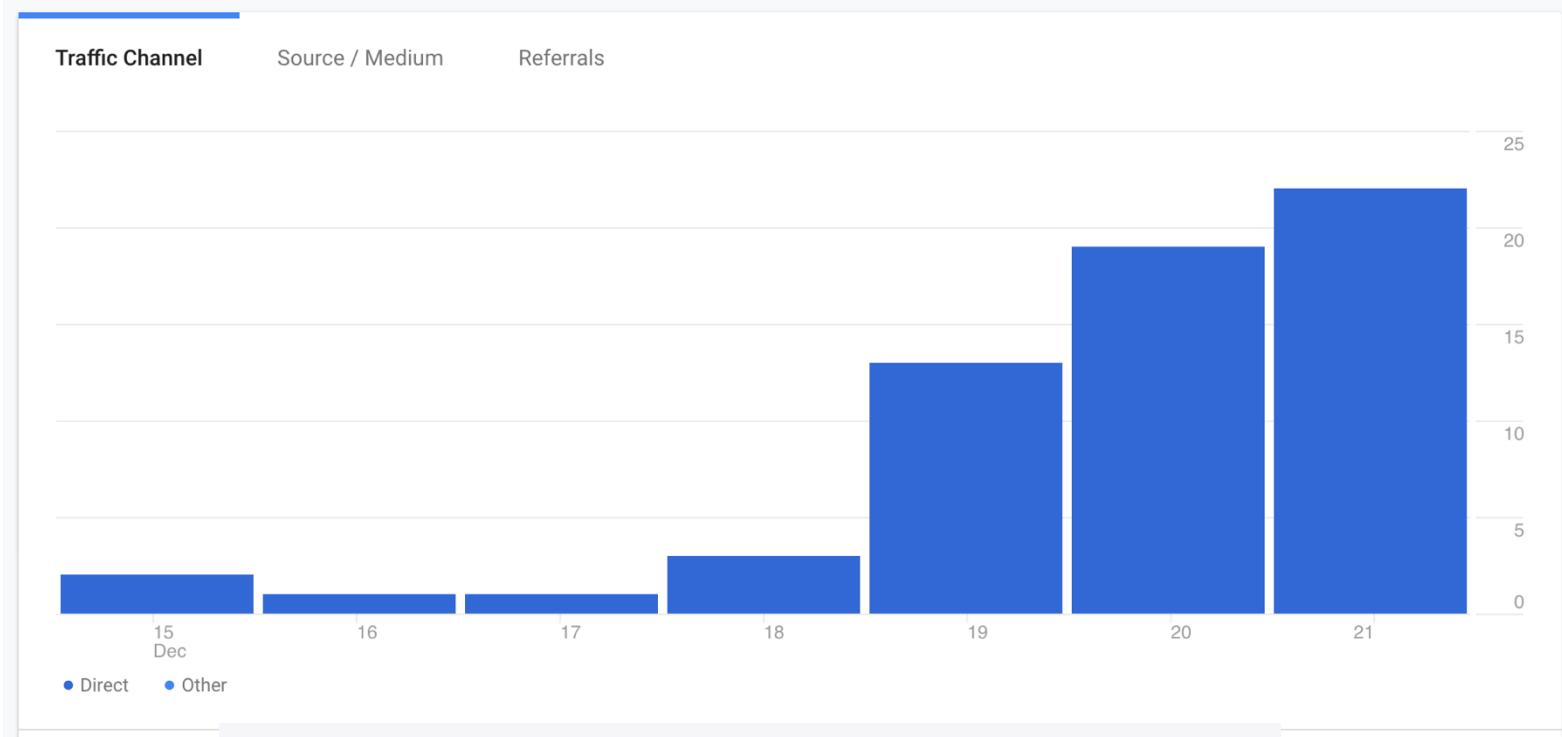
When do your users visit?



Users by time of day



## How do you acquire users?



Last 7 days ▾

## What pages do your users visit?

ACQUISITION REPORT ➔

| Page                 | Pageviews | Page Value |
|----------------------|-----------|------------|
| /                    | 477       | \$0.00     |
| /contact             | 376       | \$0.00     |
| /seller              | 283       | \$0.00     |
| /item                | 144       | \$0.00     |
| /post                | 134       | \$0.00     |
| /results?percLike=   | 119       | \$0.00     |
| /login               | 94        | \$0.00     |
| /results?percLike=ca | 35        | \$0.00     |
| /results             | 26        | \$0.00     |
| /about               | 25        | \$0.00     |

Last 7 days ▾      PAGES REPORT ➔

## Team Member Contributions

 Team Member Contributions

**Marcus Reginald Mertilien**  
antonio.94124@gmail.com; athena javier; Albert Shevchuk; Alex Ha; Michael Phan; Daniel Martinez; Dragutin Petkovic; + 1 more  
Friday, December 21, 2018 at 1:20 AM  
[Show Details](#)

Hello Team,

Per Milestone 5 requirements please reply with a list of your contributions to the team, technical or any other. As well as the number of submissions you have made to the github development branch, i.e. staging\_GatorTrader or NodeAPI.

**Team Lead: Marcus Mertilien**  
As team lead, I was responsible for keeping the team on schedule. This included delegating tasks in accordance with milestones. All milestone submissions were the responsibility of the team lead. In terms of the code base it was my responsibility to ensure the safety of the master branch, and help team members navigate merge conflicts and git issues.

- Manage Github
- M0 Frontend Architecture & Deployment
- Setup Continuous Deployment Pipeline
- Website Header
- Homepage
- Seller Dashboard
- Terms & Agreement Policy
- Milestone 5
- Presentation
- Github Commits: 18

 Re: Team Member Contributions

 athena javier <javierathena@gmail.com>  
Marcus Reginald Mertilien  
Friday, December 21, 2018 at 8:05 AM  
[Show Details](#)

Athena's contribution & Tasks:  
-Milestone 1  
-Milestone 2  
-Milestone 4 (Last part of milestone 4)  
- Branches worked on github: AJ\_policy, AJ\_feathomepage ,AJ\_searchcss  
- attempted Terms & Conditions policy

On Fri, Dec 21, 2018 at 1:20 AM Marcus Reginald Mertilien <[mmertili@mail.sfsu.edu](mailto:mmertili@mail.sfsu.edu)> wrote:

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- Github Commits: 18



## Re: Team Member Contributions



Albert Shevchuk <albertshevchuk@gmail.com>

Marcus Reginald Mertilien

Friday, December 21, 2018 at 9:29 AM

[Show Details](#)

- Teams Availability
- Part Milestone One Documentation
- Part Milestone Two Documentation
- Part Multer Module Development
- Q & A
- Part Milestone Four Documentation
- Part Code Review
- Part Thumbnail Module Development
- Part Presentation
- Github Commits: 6

On Fri, Dec 21, 2018 at 1:20 AM Marcus Reginald Mertilien <[mmertili@mail.sfsu.edu](mailto:mmertili@mail.sfsu.edu)> wrote:

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- Milestone 5
- Presentation
- Github Commits: 18



## Re: Team Member Contributions



Daniel Martinez <daniel.martinez9000@gmail.com>

Marcus Reginald Mertilien

Friday, December 21, 2018 at 12:56 PM

[Show Details](#)

- Milestone 1
- Github Commits: 3
- backend
- Encryption
- Messaging
- Sorting/Filtrering

On Fri, Dec 21, 2018 at 1:20 AM Marcus Reginald Mertilien <[mmertili@mail.sfsu.edu](mailto:mmertili@mail.sfsu.edu)> wrote:

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- Github Commits: 18



## Re: Team Member Contributions



Anthony hernandez <antonio.94124@gmail.com>

Marcus Reginald Mertilien

Saturday, December 22, 2018 at 12:02 AM

[Show Details](#)

Backend lead: Raul A Serrano Hernandez

As a Backend lead, I managed the server and server's database. I was responsible for checking that backend and front end communicated as expected and also fixing errors on the backend server. I had to keep the backend running at all times. I have contributed in the following branches

nodeAPI (backend API)

trading\_GatorTrader

hub Commits: 36



## RE: Team Member Contributions



Alex Ha <alexha415@gmail.com>

Marcus Reginald Mertilien

Saturday, December 22, 2018 at 9:55 AM

[Show Details](#)

Sent from [Mail](#) for Windows 10

**From:** Alex Ha

**Sent:** Friday, December 21, 2018 3:34 PM

**To:** [Marcus Reginald Mertilien](#)

**Subject:** Re: Team Member Contributions

Front-end Lead: Alex Ha

As front-end lead, I was responsible for providing a responsive and functional UI for our website. As well as learning Javascript, React, and CSS, I was responsible for every page on the website. I was also responsible for understanding the team's RESTful API, routing pages, data persistence, and overall design.

### Work

- M0 Frontend Architecture, M1 UML Diagrams, M2 Vertical Prototype search and post functions, M3 Implementation of Use Cases. M5 Messaging, sorting, dashboards, UI design, CSS
- Almost every .jsx/.js file inside of the components folder was written by me and others helped to edit the CSS and bugs. These included: Item categories, header, login/reg/post form, item listings, sorting, item count, routing, about page, CSS, seller dashboard, messaging, logging in/out functionality and persistence, search bar function, search by category, detailed item page, home page QA.
- **Functionality in fronted that was collaborated and work was split fairly equally:**  
CSS and design, Header, Post/Login/Reg forms, Seller dashboard table design
- **Functionality in frontend that I did not have anything to do with:**  
Privacy and policy
- **Github Commits: Many commits but not reflected on GitHub:**

## Post Analysis

### Post Analysis



Marcus Reginald Mertilien

Anthony hernandez; athena javier; Albert Shevchuk; Alex Ha; Daniel Martinez; Michael Phan; Dragutin Petkovic; marcusmertilien@gmail.com

Saturday, December 22, 2018 at 1:27 AM

[Show Details](#)

Hello Team,

Part of milestone 5 requires a post analysis. This is an opportunity to reflect on the work we've done on this project and reflect on our mistakes so that we can be better developers in the future.

I wanted to start this post analysis by saying thank you to everyone who worked hard on this project to bring it together. We definitely encountered our fair share of obstacles, but we made it to the end. As team lead I am greatly responsible for the success and failure of this team, and I'd like to believe I served you all well. With that being said, as team lead looking back I would have taken more time getting to know my team members. The milestones happened so quickly and the pressures definitely mounted as we got closer to the end. I believe if our team had better relationships and communication in general we would have avoided some major conflict.

We also struggled to get together as a team in person. If we were able to meet on a regular basis our work would have become more streamlined and there would have been an increased sense of urgency for our milestones. As team lead I was slow to divide the tasks of the milestones. This would easily be remedied by starting my work immediately and not procrastinating. As a leader it was my responsibility to make sure the team had a clear sense of direction, and without that clear sense of direction obviously the team's productivity was hampered.

Please feel free to add any comments or ask questions you might have regarding this post analysis.

Thank you all,  
Marcus Mertilien



## Re: Post Analysis



Albert Shevchuk <albertshevchuk@gmail.com>

Marcus Reginald Mertilien; Anthony hernandez; athena javier; Alex Ha; Daniel Martinez; Michael Phan; Dragutin Petkovic; marcusmertilien@gmail.com

Saturday, December 22, 2018 at 9:02 AM

Show Details

It looks pretty good to me Marcus. I personally believe you served us well. The team did a phenomenal job delivering tasks and milestones on time. We also had a very healthy attendance, i took note. I would like to thank all the members helping each other out. Definitely have to agree on the communication barrier and the lack of group meeting times. Over all i know that we were a good team and it was an honor working with you guys.

On Sat, Dec 22, 2018 at 1:27 AM Marcus Reginald Mertilien <[mmertili@mail.sfsu.edu](mailto:mmertili@mail.sfsu.edu)> wrote:

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Thank you all,

Marcus Mertilien



## Marcus Reginald Mertilien

Anthony hernandez; athena javier; Albert Shevchuk; Alex Ha; Daniel Martinez; Michael Phan; Dragutin Petkovic; [+ 1 more](#)

Saturday, December 22, 2018 at 9:02 AM

[Show Details](#)

Revised:

Hello Team,

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We also struggled to get together as a team in person. If we were able to meet on a regular basis our work would have become more streamlined and there would have been an increased sense of urgency for our milestones. As team lead I was slow to divide the tasks of the milestones. This would easily be remedied by starting my work immediately and not procrastinating. As a leader it was my responsibility to make sure the team had a clear sense of direction, and without that clear sense of direction obviously the teams productivity was impeded.

Please feel free to add any comments or ask questions you might have regarding this post analysis.

Thank you Albert for your comments. I must agree with what you have said!