

# **Final Project SW Engineering CSC 648/848**

## **Section 01, Spring 2017**

### **SFSU Congre-Gator Market**

#### **Team 04 (local)**

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<http://www.sfsuse.com/~sp17g04/>

05/22/17

## **Product Summary**

“SFSU Congre-Gators Market” is a website fro SFSU students to buy and sell goods. Congre-Gators is intended to be a hub for students in need of offloading items for cash to link up up to other students in need of picking up used goods at an affordable price.

The home page at Congre-Gators displays the most recently posted items. Users may browse these items or explore other item listings via the search bar without being logged-in. This functionality is akin to “window shopping” and allows the user to peruse the website on an informal trial basis before deciding to register if they haven’t already done so. Users can sort items by price, date and name. Each posted item presents an opportunity to purchase it by presenting an easily visible button labeled ‘Buy’. Upon attempting to purchase an item, if a user is not already logged in, they will be informed that they must log-in to purchase an item.

Users are also invited to sell items via the button “sell” displayed in the top right corner. Selecting sell will redirect a user to a page where they may upload item images, and write descriptions of their items and set a price. As with buy, when a user who is not logged-in attempts to upload any data they will be informed they must log-in to do so.

Users will have easy access to either log-in or register with the website. Upon logging in, a visitor will be redirected back to the most recently visited page before logging-in. Upon registration, a user will also be redirected back to the most recently visited page before registration.

Logged-in visitors have access to additional functionality general users don’t have. In addition to being able to buy and sell items freely, a user can check their notifications page which records conversations with other users. The notifications page offers the option of helping coordinate a meetup place between parties by accessing Google Maps.

Finally, a logged-in user may access a drop-down called “My Account” which provides links to a profile page where a user may edit information about themselves as well as a report lightbox which allows one to report misconduct to website administrators, and finally the simple ability to logout.

Congre-Gators is visible to everyone, and anyone may browse for items. However, full functionality is offered only to SFSU students at this time. This visibility and limited functionality will allow relevant user to explore the site and ultimately give it a trial before registration, akin to window shopping.

<http://sfsuse.com/~sp17g04>

# **Software Engineering CSC 648/848**

## **Section 01**

### **SFSU Congre-Gators Market**

#### **Team 04**

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**Milestone 1**  
**28th, February 2017**

#### **History Table**

<b>Initial Draft of Milestone 1</b>	<b>02/27/2017</b>	<b>V1.0</b>
<b>First Revision &amp; Freeze Draft of Milestone 1</b>	<b>02/28/2017</b>	<b>V1.1</b>

## **1) Executive Summary**

“SFSU Congre-Gators Market” is a buy/sell web application exclusively for SFSU students that is beneficial, safe, and of great value to the SFSU community. Users can create item listings on the website to sell various types of items including books, electronics, furniture, and more that are of interest to students. The application consists of two general types of users: non-registered and registered. Both of these users can browse the website for compelling items, and the latter can purchase items posted by other registered users or sell items of their own. Registered users may contact each other through messaging provided by our web application while transactions take place outside of the application after an agreement. Moreover, the website shall have at least one admin whose job shall be to monitor postings and messages to ensure a safe and legitimate environment.

Our web application provides multiple advantages such as items directly relevant to SFSU students, the security that comes with each buyer or seller being a verified SFSU student, and a common meeting ground at the SFSU campus or nearby. Students can find products relevant to their needs by finding items posted from other students who took similar courses. All members being students also means registered users are not unfamiliar to the faculty and staff which makes it difficult for engagement in misconduct. Furthermore, bad behavior can result in more than just conflict with the law. Other serious consequences include compromising the culprit’s reputation and chances at graduation. While security is substantial, it shouldn’t be the best part of our product because safety is essential to any product or service. The feature that makes SFSU Congre-Gator’s Market unique is the common ground for students to do business with each other. There is no hassle waiting on a shipment since all members are also students. Hence, they are local to the area and can meet on campus.

We are Team 4 of CSC 648-848 Section 1 - Software Engineering at SFSU, Spring 2017. Our mission is to experience the real world and what it means to build a startup company by developing a fully functional buy/sell web application that is also promotable as a legitimate product. Not only do we desire to create a great application, but we do so as a team that appreciates the open-mindedness of its members and uses real world techniques like Agile and Continuous Software Development.

## 2) Use Cases

**Non-registered User:** Jane is in the market for a new laptop after her old laptop, which she owned for several years, recently crashed mid-semester. As a student, a new laptop costs more than Jane can afford, so she is looking for a used laptop. Jane has heard about the student web-service that links students who want to sell items, including electronics. She visits the website and navigates to the electronic section and, with the use of filters, quickly finds an **item listing** with the item she is looking for at an affordable price. Jane decides to contact the seller, but since she is a **non-registered user**, she is only allowed to browse and cannot purchase (or post) items for sale. Jane is therefore prompted to register and verify her status as an SFSU student. She happily complied with the registration request and became a **registered user**. Her status as a registered user allows her to view the seller's contact information. Jane then contacted the seller and agreed to purchase the laptop.

**Registered User (Buyer/Seller):** Joe is a senior student at SFSU who lives on campus. He is planning on graduating this semester and wants to sell his dorm room furniture. However, Joe is still quite busy finishing his school work. Therefore, he needs an ideal way to offload his furniture to a fellow student while also allowing Joe to coordinate payments and move his items efficiently. Joe is already a **registered user** (since he bought his dorm furniture through the website when he was an incoming freshman) and thus has the freedom to log onto the website and post his furniture for sale. Joe creates a new **item listing** on the website for each of the furniture items he wishes to sell. He then waits for another **registered user**, who is interested in his items, to contact him to arrange a purchase. Fortunately, Joe finds a customer interested in his item listing. They agree to meet up on campus where both parties can make a quick and safe transaction.

**Administrator:** Jack, the IT guy, has been receiving complaints from several sellers about misconduct from a particular **registered user**. Apparently, the user has been sending **messages** which bluff interest in an item but result in non-payment or perpetual negotiations between the two parties. This user has accrued enough complaints from other registered users that Jack the IT guy confirms the issue by investigating the history of messages. Jack flags the offending user and warns him/her that further misconduct will result in a ban from the web service.

### **3) Data Definitions**

- 1. Non-registered User (nonreg\_user):**
  - 1.1. Can browse on the website
  - 1.2. Can filter items on the website
  - 1.3. Can register on the website
  - 1.4. Can use features 1.1, 1.2, and 1.3 without registration/login
- 2. Registered User (reg\_user):**
  - 2.1. Can do anything a non-registered user can do
  - 2.2. Can login on the website
  - 2.3. Can purchase items for sale
  - 2.4. Can post items for sale
  - 2.5. Can contact other registered users
  - 2.6. Can meet up in a safe environment
- 3. Administrator (admin):**
  - 3.1. Needs to login/register
  - 3.2. Can monitor messages
  - 3.3. Can remove items posted for sale
  - 3.4. Can contact registered users
  - 3.5. Can ban registered users
- 4. Item Listing (item\_listing):**
  - 4.1. Price
  - 4.2. Description
  - 4.3. Keyword
  - 4.4. Photos (up to five)
- 5. Message (message):**
  - 5.1. Title
  - 5.2. Text
  - 5.3. To (Recipient)
  - 5.4. From (Sender)
  - 5.5. Date/Time

## **4) Initial List of Functional Specs**

1. The non-registered/registered user shall be able to browse the website for available items for sale.
2. The non-registered/registered user shall be able to filter the items for sale by 'Category'.
3. The non-registered/registered user shall be able to filter the items for sale by 'Price'.
4. The non-registered/registered user shall be able to filter the items for sale by 'Date of posting'.
5. The non-registered user shall be able to register on the website to buy or sell.
6. The registered user shall be able to anything a non-registered user can do.
7. The registered user shall be able to login to the website.
8. The registered user shall be able to post an item for sale.
9. The registered user shall be able to update his/her item for sale.
10. The registered user shall be able to remove his/her item for sale.
11. The registered user shall be able to view the items that were posted by him/her for sale.
12. The registered user shall be able to meet up with another registered user to make a quick transaction in a safe environment.
13. The registered user shall be able to view contact information of other registered users.
14. The admin shall be able to remove an item listing.
15. Registration form: Allows users to register an account on the website. Registration requires a unique username, a password, and an SFSU email.

## **5) List of Non-Functional Specs**

1. The application shall be developed using the LAMP stack provided by the class CTO.
2. The application shall be developed using an approved PHP Framework from the class CTO.
3. The application shall be developed using GUI technologies.
4. The application shall be hosted and deployed on Amazon Web Services provided by the Class CTO.
5. The application shall be optimized for standard desktop/laptop browsers.
6. The application shall render correctly on the two latest versions of at least three major browsers such as Mozilla, Safari, and Chrome.
7. The application shall have responsive UI code so it can be adequately rendered on mobile devices, but no mobile native app is to be deployed.
8. Data shall be stored in the MySQL database on the class server in the team's account.
9. The application shall be served from the team's account.
10. Privacy of users shall be protected, and all privacy policies will be appropriately communicated to the users.
11. No more than 50 concurrent users shall be accessing the application at any time.
12. The language used shall be English.
13. The application shall be very easy to use and intuitive. No prior training shall be required to use the website.
14. Google Analytics shall be added.
15. Messaging between users shall be done only by class approved methods to avoid issues of security with e-mail services.
16. Pay functionality shall not be implemented on the website.
17. Site security shall be applied according to best practices.
18. Modern SE processes and practices shall be used including collaborative and continuous SW development.
19. The website shall prominently display the following text on all pages "SFSU Software Engineering Project, Spring 2017. For Demonstration Only."
20. The team shall use Github to maintain the website codebase.

## 6) Competitive Analysis

Registered users can post multiple images for each product to enhance the advertising quality of their product. Messaging is also available directly through the website for faster communication. The website admins can monitor these messages for any misconduct to promote a safe environment for users.

**Competitive Analysis Graph of Features**

	Our Application	sellstudentstuff	Craigslist	student2student
Search	+	+	++	+
Filters	+	+	+	-
Uploading Photos	+	+	+	+
<b>Delivery Cost And Time</b>	++	-	-	-
Variation in Items offered	+	-	+	-
No Service charge	+	+	-	+
Messaging	+	-	-	-
<b>Safe Meetup</b>	++	-	-	-

Legend: Feature exists +, Superior feature ++, Feature does not exist -

When students purchase products online, a common issue is the delivery-time to receive their desired product. For example, books are typically expensive to buy and slow to deliver. Paying for quick delivery adds even more onto the total cost. Unlike our competitors, with SFSU Congre-Gator's Market, students can meet on campus as quickly as the same day or whenever their schedules permit! Meeting in-person allows buyers to properly inspect the product before paying, and there are no delivery costs for either party.

## **7) High Level Architecture**

### **1. 01-LAMP Stack: (SF-SUSE Server Information)**

- 1.1. Host: Amazon Cloud
- 1.2. OS: Ubuntu Server, Version: 16.04
- 1.3. MySQL Version: 5.7
- 1.4. PHP Version: 7.0.13
- 1.5. OpenSSH Version: 7.2
- 1.6. Git Version: 2.7.4
- 1.7. Python: 2.7
- 1.8. Ruby: 2.3.1
- 1.9. nodejs: 4.2.6
- 1.10. npm: 3.5.2
- 1.11. Less: 481
- 1.12. Sass: 3.4.23

### **2. PHP Framework:**

- 2.1. CodeIgniter: Version 3.1.3

### **3. GUI Technologies:**

- 3.1. Javascript: Version 1.8
- 3.2. jQuery: Version 3.1.1
- 3.3. Bootstrap: Version 4.0.0-alpha.6
- 3.4. CSS 3

### **4. Major Browsers:**

- 4.1. Mozilla Firefox: Version 51.0, 51.0.1 (64-bit)
- 4.2. Safari: Version 9.1.3, 9.0.2,
- 4.3. Google Chrome: Version 56.0.2924.87 (64-bit)

### **5. Team's account where website will be served:**

- 5.1. <http://www.sfsuse.com/~sp17g04>

### **6. Team's application of choice where website contributions will be made:**

- 6.1. Github

## **8) Team**

CEO: Ihsan Taha

CTO: Prateek Gupta

Back-end Developer: Darel Ogbonna

Back-end Developer: Shane Cota

Front-end Developer: Kevin Chu

Front-end Developer: Mark Tompong

## 9) Checklist

- Team decided on basic means of communications: DONE
- Team found a time slot to meet outside of the class: DONE
- CTO chosen and working out well so far: DONE
- Github master chosen: DONE
- Team ready and able to use the chosen framework: DONE
- Skills of each team member defined and known to all: DONE
- Team lead ensured that all team members read the final M1 and agree/understand it before submission: DONE

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**Milestone 2**  
**20th, March 2017**

#### **History Table**

<b>Initial Draft of Milestone 1</b>	<b>02/27/2017</b>	<b>V1.0</b>
<b>First Revision &amp; Freeze Draft of Milestone 1</b>	<b>02/28/2017</b>	<b>V1.1</b>
<b>Initial Draft of Milestone 2</b>	<b>03/13/2017</b>	<b>V2.0</b>
<b>First Revision &amp; Freeze Draft of Milestone 2</b>	<b>03/20/2017</b>	<b>V2.1</b>

## **1) Executive Summary**

“SFSU Congre-Gators Market” is a buy/sell web application exclusively for SFSU students that is beneficial, convenient, and of great value to the SFSU community. Users can create item listings on the website to sell various types of items including books, electronics, furniture, and more that are of interest to students. The application consists of two general types of users: non-registered and registered. Both of these users can browse the website for compelling items, and the latter can purchase items posted by other registered users or sell items of their own. Registered users Shall be able to contact each other through messaging provided by our web application while transactions take place outside of the application after an agreement. Moreover, the website shall have at least one admin whose job shall be to monitor postings and messages to ensure a safe and legitimate environment.

The SFSU Congre-Gator’s Market offers students our unique Convenient Meetup feature. This allows students to input their busy schedules as part of their profile. Congre-Gator’s Market will compare schedules when contact is initiated between buyers and sellers, and provide appointment options. This alleviates buyers and sellers at Congre-Gator’s Market the of hassle of coordinating often hectic schedules. Between courses that meet at different times on different days of the week, midterms and work, this unique feature will be of substantial value to the student who often struggles to coordinate that one last appointment! Furthermore, there is no hassle waiting on a shipment since all members are also students. Hence, they are local to the area and can meet on campus. There is also the implicit security that comes with each buyer or seller being a verified SFSU student, and having a common meeting ground at the SFSU campus or nearby. All members being students also means registered users are not unfamiliar to the faculty and staff which makes it difficult for engagement in misconduct as no student should want to sully their reputation amongst their peers and instructors. Finally, students can find products relevant to their needs by finding items posted from other students who took similar courses.

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**Registered User (Buyer/Seller):** Joe is a senior student at SFSU who lives on campus. He is planning on graduating this semester and wants to sell his dorm room furniture. However, Joe is still quite busy finishing his school work. Therefore, he needs an ideal way to offload his furniture to a fellow student while also allowing Joe to coordinate payments and move his items efficiently. Joe is already a **registered user** (since he bought his dorm furniture through the website when he was an incoming freshman) and thus has the freedom to log onto the website and post his furniture for sale. Joe creates a new **item listing** on the website for each of the furniture items he wishes to sell. He then waits for another **registered user**, who is interested in his items, to contact him to arrange a purchase. Fortunately, Joe finds a customer interested in his item listing. They agree to meet up on campus where both parties can make a quick and safe transaction.

**Administrator:** Jack, the IT guy, has been receiving complaints from several sellers about misconduct from a particular **registered user**. Apparently, the user has been sending **messages** which bluff interest in an item but result in non-payment or perpetual negotiations between the two parties. This user has accrued enough complaints from other registered users that Jack the IT guy confirms the issue by investigating the history of messages. Jack flags the offending user and warns him/her that further misconduct will result in a ban from the web service.

**Convenient Meetup:** Jill is a freshman and new to SFSU, so is she not that familiar with the area. But she is familiar with SFSU Congre-gator's market and would like to buy some new furniture! As a **registered user** at Congre-Gators Market, she decides to use the site's **Convenient Meetup** feature which lists locations to meet up on campus for convenience.

### **3) Data Definitions**

- 1. Non-registered User (nonreg\_user):**
  - 1.1. Can browse on the website
  - 1.2. Can filter items on the website
  - 1.3. Can register on the website
  - 1.4. Can use features 1.1, 1.2, 1.3 without registration/login
- 2. Registered User (reg\_user):**
  - 2.1. Can do anything a non-registered user can do
  - 2.2. Can login on the website
  - 2.3. Can purchase items for sale
    - 2.3.1. Can contact seller
  - 2.4. Can post items for sale
    - 2.4.1. Can edit item listing
      - 2.4.1.1. Can edit name, category, price, date, photo(s) and description
      - 2.4.1.2. Can remove posting
      - 2.4.1.3. Can view posting
    - 2.5. Can contact other registered users
    - 2.6. Can use Meetup for convenience
    - 2.7. Can view notifications
    - 2.8. Can edit profile
      - 2.8.1. Can edit username, password, major, photo and biography
    - 2.9. Can report misconduct to admin
  - 3. Administrator (admin):**
    - 3.1. Can do anything a registered user can do
    - 3.2. Needs to login/register
    - 3.3. Can monitor messages
    - 3.4. Can remove items posted for sale
    - 3.5. Can contact registered users
    - 3.6. Can ban registered users
  - 4. Item Listing (item\_listing):**
    - 4.1. Item Name
    - 4.2. Price
    - 4.3. Description
    - 4.4. Date
    - 4.5. Seller

4.6. Photos

**5. Message (message):**

- 5.1. Thread
- 5.2. To (Recipient)
- 5.3. From (Sender)
- 5.4. Date/Time
- 5.5. Organized under Notifications page
- 5.6. Reference to Item Listing

**6. Convenient Meetup (meetup)**

- 6.1. Location to meet up from a list of options available on the map
- 6.2. A date and time both members can agree upon in the message thread and a confirm button for admin in case of any misconduct

## **4) List of Functional Specs**

### **Priority 1**

#### **1. Non-registered**

- 1.1. Shall be able to browse the website for available items for sale.
  - 1.1.1. Listings shall be paginated.
  - 1.1.2. Shall be able to view carousel of photo's uploaded by seller.
- 1.2. Shall be able to filter the items via drop down menus:
  - 1.2.1. By 'Category.'
  - 1.2.2. By 'Price.'
  - 1.2.3. By 'Date of item's listing.'
- 1.3. Shall be able to register on the website to buy or sell items via registration form.
  - 1.3.1. The registration form shall require a unique username, a password, and an SFSU email.

#### **2. Registered user**

- 2.1. Shall be able to do everything a non-registered user can do.
- 2.2. Shall be able to login to the website.
- 2.3. Shall be able to buy an item for sale.
- 2.4. Shall be able to post an item for sale.
- 2.5. Should be able to choose a place to meet up from a map.
  - 2.5.1. Shall be able to update his/her item for sale.
  - 2.5.2. Shall be able to remove his/her item for sale.
- 2.6. Shall be able to view the items that were posted by him/her for sale.
- 2.7. Shall be able to message another registered user to initiate a transaction.
  - 2.7.1. Messages shall be updated "live" in a thread with the latest message at the bottom.

#### **3. Administrator**

- 3.1. Shall be able to remove an item listing.
- 3.2. Shall be able to warn registered users of misconduct.
  - 3.2.1. The admin Shall be able to penalize said users by banning them from the website ultimately.
- 3.3. Shall be able to remove photos.

### **Priority 2**

#### **1. Registered user**

- 1.1. Shall be able to view their notifications on Notifications page.
  - 1.1.1. Accessed via toolbar after registered user logs in the website.
  - 1.1.2. Organized according to buyer-seller.

- 1.1.2.1. Shall be able to have several transactions lumped into a single conversation.
- 1.2. Shall be able to edit their profile.
  - 1.2.1. Shall be able to change their password.
- 1.3. Shall be able to accrue item listings a shopping cart page.
  - 1.3.1. Lists seller and price.
  - 1.3.2. Gives the option to message seller with the Meetup button.
  - 1.3.3. Shall be able to remove an item.
- 1.4. Shall be able to lookup search history.
- 1.5. Messages between buyers and sellers Shall be able to be conducted in a popup window.
  - 1.5.1. Accessed via notifications page or when a user clicks on ‘Buy’ option for an item listing.

### **Priority 3**

#### **1. Registered user**

- 1.1. Shall be alerted to unread notifications.
  - 1.1.1. A sum representing the number of unread notifications will appear in the toolbar next to the Notifications link.
- 1.2. Registered users shall be able to switch the color of their UI.
- 1.3. Shall be able to organize item postings in wishlist to be added later to shopping cart.
- 1.4. Shall be able to use Convenient Meetup.
  - 1.4.1. Chooses a location from a map containing a list of location options.
- 1.5. Shall be able to block messages from unwanted (registered) users.
- 1.6. Shall have a related item category when selecting items.

## **5) List of Non-Functional Specs**

1. The application shall be developed using the LAMP stack provided by the class CTO.
2. The application shall be developed using an approved PHP Framework from the class CTO.
3. The application shall be developed using GUI technologies.
4. The application shall be hosted and deployed on Amazon Web Services provided by the Class CTO.
5. The application shall be optimized for standard desktop/laptop browsers.
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7. The application shall have responsive UI code so it can be adequately rendered on mobile devices, but no mobile native app is to be deployed.
8. Data shall be stored in the MySQL database on the class server in the team's account.
9. The application shall be served from the team's account.
10. Privacy of users shall be protected, and all privacy policies will be appropriately communicated to the users.
11. No more than 50 concurrent users shall be accessing the application at any time.
12. The language used shall be English.
13. The application shall be very easy to use and intuitive. No prior training shall be required to use the website.
14. Google Analytics shall be added.
15. Messaging between users shall be done only by class approved methods to avoid issues of security with e-mail services.
16. Pay functionality shall not be implemented on the website.
17. Site security shall be applied according to best practices.
18. Modern SE processes and practices shall be used including collaborative and continuous SW development.
19. The website shall prominently display the following text on all pages "SFSU Software Engineering Project, Spring 2017. For Demonstration Only."
20. The team shall use Github to maintain the website codebase.

## 6) Mockups

### Help Guide to the Website's Content

Header	Logo, Home page, Sorting feature	Categories	Search Bar	Non-registered/Registered User Links Cart, Sign up, Login Cart, Report, Username & Logout
Main		Title of Current Page		Registered User Functions
		Necessary Information about current page		
Footer		Main Content of Current Page (Varies with Page)		Non-registered/registered User Links About, Contact, Terms & Services

# Home Page

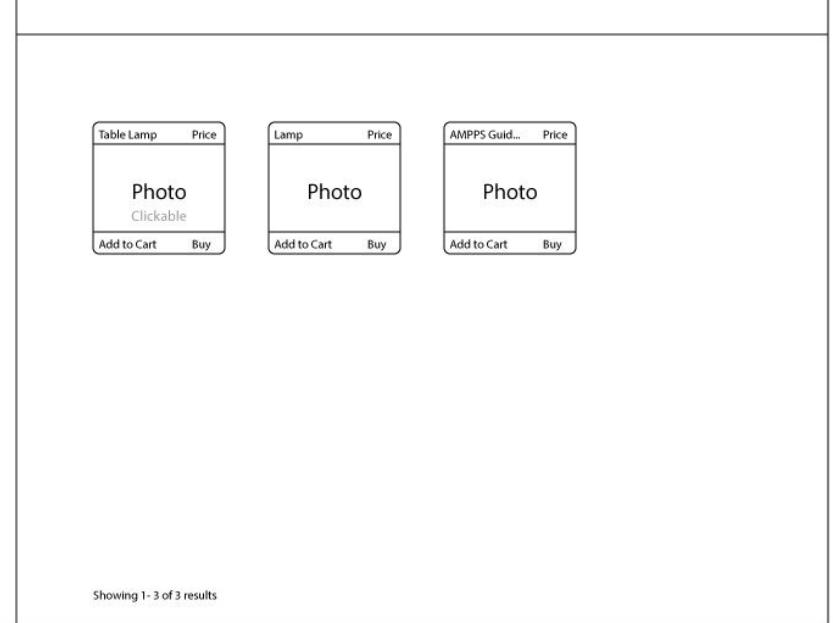
Header

LOGO	HOME	SORT BY...	ALL ▼	Search item by name ...	<input type="button" value=""/>	CART	SIGN UP	LOGIN																																																
Main	<h2>HOME</h2> <p>Welcome to SFSU Congre-Gators' Market, where students can buy and sell items at a cheap price in a quick and safe environment.</p> <p>Most Recent Item Listings</p> <table border="1"><tr><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo Clickable</td></tr><tr><td>Add to Cart</td><td>Buy</td></tr></table> <table border="1"><tr><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td></tr></table> <table border="1"><tr><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td></tr></table> <table border="1"><tr><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td></tr></table> <table border="1"><tr><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td></tr></table> <table border="1"><tr><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td></tr></table> <table border="1"><tr><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td></tr></table> <table border="1"><tr><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td></tr></table> <p>Showing 1-12 of 45 results</p> <p><a href="#">PREVIOUS</a> <a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">NEXT</a></p>								Item Name	Price	Photo Clickable		Add to Cart	Buy	Item Name	Price	Photo		Add to Cart	Buy	Item Name	Price	Photo		Add to Cart	Buy	Item Name	Price	Photo		Add to Cart	Buy	Item Name	Price	Photo		Add to Cart	Buy	Item Name	Price	Photo		Add to Cart	Buy	Item Name	Price	Photo		Add to Cart	Buy	Item Name	Price	Photo		Add to Cart	Buy
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Footer	<p>ABOUT    CONTACT    TERMS</p>																																																							

Footer

# SEARCH RESULT

Header

LOGO	HOME	SORT BY...	ALL ▼	amp <input type="text"/>	<input type="button" value=""/>	CART	SIGN UP	LOGIN
 <p>The search results are displayed in a grid format. There are three items per row. Each item has a small image placeholder labeled 'Photo' and a 'Clickable' status indicator. Below each item are two buttons: 'Add to Cart' and 'Buy'. The first item is labeled 'Table Lamp' and 'Price'. The second item is labeled 'Lamp' and 'Price'. The third item is labeled 'AMPPS Guid...' and 'Price'.</p> <p>Showing 1- 3 of 3 results</p>								
Footer	ABOUT CONTACT TERMS							

Main

Footer

## Home Page - Drop Downs

The wireframe illustrates the layout of a shopping website. The header section includes a logo, navigation links for Home, Sort By (Price, Date, Name, Seller), a search bar, and user account options (Cart, Sign Up, Login). The main content area displays a grid of items categorized by price (Books, Electronics, Furniture, Lab Equipment) and seller. Each item card features a photo, item name, price, and purchase buttons for 'Add to Cart' and 'Buy'. A sidebar on the left shows a detailed view of one item from the 'Name' sort category.

Header

LOGO HOME SORT BY... ALL ▼ Search item by name ... CART SIGN UP LOGIN

Main

SORT BY... PRICE DATE NAME SELLER Photo Clickable Add to Cart Buy Add to Cart Buy Add to Cart Buy Add to Cart Buy

BOOKS ELECTRONICS FURNITURE LAB EQUIPMENT

Item Name Price Photo Add to Cart Buy

Showing 40-45 of 45 results PREVIOUS 1 2 3 4 5 NEXT

Footer

ABOUT CONTACT TERMS

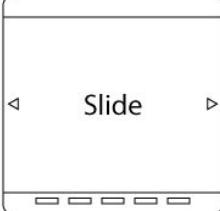
# Item Page

Header

LOGO   **HOME**   SORT BY...   ALL ▼   Search item by name ...

CART   SIGN UP   LOGIN

Main

ITEM NAME	
	<p>BACK</p>  <p>Slide</p> <p>Add to Cart   Buy</p>
	<p>Description:</p> <p>Item Name</p> <p>Category: Books</p> <p>Price: \$13.00</p> <p>Date: May 3, 2017</p> <p>Seller: Felix</p> <p><input type="button"/> Add to Cart   <input type="button"/> Buy</p> <p>&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat qui officia deserunt mollit anim id est laborum.</p>
Footer	<a href="#">ABOUT</a> <a href="#">CONTACT</a> <a href="#">TERMS</a>

Footer

## Item Page - Send Initial Message Notification to Buy Item

Header

LOGO   HOME   SORT BY...   ALL ▾   Search item by name ...      CART   SIGN UP   LOGIN

Main

ITEM NAME

BACK

Slide

Name: Item Name  
Category: Books  
Price: \$13.00  
Date: May 3, 2017  
Seller: Felix

Add to Cart   

Send a notification to this seller to buy this item

To: Felix

>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat qui officia deserunt mollit anim id est laborum.

Date: March 5, 2017 - 11:00 am   

fugiat nulla pariatur. Excepteur sint occaecat cupidatat qui officia deserunt mollit anim id est laborum.

Footer

ABOUT   CONTACT   TERMS

# Login Page

Header	<a href="#">LOGO</a> <a href="#">HOME</a> <a href="#">SORT BY...</a> <a href="#">ALL</a> ▼ <input type="text" value="Search item by name ..."/> <input type="button" value="🔍"/> <a href="#">CART</a> <a href="#">SIGN UP</a> <b>LOGIN</b>	
Main	<p><b>LOGIN</b></p> <p>Email <input type="text"/></p> <p>Password <input type="text"/></p> <p><a href="#">Forgot Password?</a></p> <p><input type="button" value="Submit"/></p> <p><b>Not a member? Sign up!</b></p> <p><input type="button" value="SIGN UP"/></p>	
Footer	<a href="#">ABOUT</a> <a href="#">CONTACT</a> <a href="#">TERMS</a>	

Comment: The Forgot Password shall not be implemented to avoid using email services with the Amazon cloud

# Sign Up Page

Header	<a href="#">LOGO</a> <a href="#">HOME</a> <a href="#">SORT BY...</a> <a href="#">ALL ▼</a> <input type="text" value="Search item by name ..."/> <input type="button" value="🔍"/>	<a href="#">CART</a> <b>SIGN UP</b> <a href="#">LOGIN</a>												
Main	<b>SIGN UP!</b>  <table><tr><td>Email</td><td>Must be an SFSU email <input type="text"/></td></tr><tr><td>Username</td><td>Must contain at least 8 characters, 1 alphabet and 1 number <input type="text"/></td></tr><tr><td>Password</td><td>Must contain at least 8 characters, 1 alphabet and 1 number <input type="text"/></td></tr><tr><td>Captcha</td><td><input type="text"/> What is 5 x 3 ? <input type="text"/></td></tr><tr><td>Major</td><td>Optional <input type="text" value="SELECT ▼"/></td></tr><tr><td colspan="2">I have read the Terms &amp; Services and agree <input type="checkbox"/> I Agree   <input type="button" value="Submit"/></td></tr></table>		Email	Must be an SFSU email <input type="text"/>	Username	Must contain at least 8 characters, 1 alphabet and 1 number <input type="text"/>	Password	Must contain at least 8 characters, 1 alphabet and 1 number <input type="text"/>	Captcha	<input type="text"/> What is 5 x 3 ? <input type="text"/>	Major	Optional <input type="text" value="SELECT ▼"/>	I have read the Terms & Services and agree <input type="checkbox"/> I Agree <input type="button" value="Submit"/>	
Email	Must be an SFSU email <input type="text"/>													
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Major	Optional <input type="text" value="SELECT ▼"/>													
I have read the Terms & Services and agree <input type="checkbox"/> I Agree <input type="button" value="Submit"/>														
Footer	<a href="#">ABOUT</a> <a href="#">CONTACT</a> <a href="#">TERMS</a>													

# Home Page - Registered User

Header

LOGO	HOME	SORT BY...	ALL ▼	Search item by name ...	<input type="button" value=""/>	CART	REPORT	USER ▼																																																																								
<p>WELCOME, Username</p> <p>NOTIFICATIONS PROFILE ITEM LISTINGS</p> <p>Most Recent Item Listings</p> <table border="1"><tr><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo Clickable</td><td colspan="2">Photo</td><td colspan="2">Photo</td><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td></tr><tr><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td><td colspan="2">Photo</td><td colspan="2">Photo</td><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td></tr><tr><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td><td>Item Name</td><td>Price</td></tr><tr><td colspan="2">Photo</td><td colspan="2">Photo</td><td colspan="2">Photo</td><td colspan="2">Photo</td></tr><tr><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td><td>Add to Cart</td><td>Buy</td></tr></table> <p>Showing 1-12 of 45 results</p> <p>PREVIOUS <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/> NEXT</p>									Item Name	Price	Photo Clickable		Photo		Photo		Photo		Add to Cart	Buy	Item Name	Price	Photo		Photo		Photo		Photo		Add to Cart	Buy	Item Name	Price	Photo		Photo		Photo		Photo		Add to Cart	Buy																																				
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Footer	ABOUT CONTACT TERMS																																																																															

Main

Footer

# Item Listings Page

Header

LOGO   HOME   SORT BY...   ALL ▾   Search item by name ...  

CART   REPORT   USER ▾

Main

YOUR ITEM LISTINGS   NOTIFICATIONS   PROFILE   ITEM LISTINGS

Item Name	Category	Price	Date	Update Listing
Item Name	Books	\$9.00	Aug 8, 2016	<input type="button" value="Edit"/> <input type="button" value="Remove"/>
Item Name	Furniture	\$16.45	Feb 7, 2017	<input type="button" value="Edit"/> <input type="button" value="Remove"/>

Footer

ABOUT   CONTACT   TERMS

## Add or Edit Item Listings Page

Header

LOGO	HOME	SORT BY...	ALL ▼	Search item by name ...	<input type="button" value=""/>	CART	REPORT	USER ▼
		<b>EDIT YOUR ITEM LISTING</b>						
Main	<p><a href="#">BACK</a></p> <p>Slide</p> <p>◀ ▶</p> <p>Photo(s): <input type="button" value="Upload up to five 5MB/file images"/></p> <p>Description:</p> <p>Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p> <p><input type="button" value="SAVE EDIT"/></p>							
	<a href="#">NOTIFICATIONS</a> <a href="#">PROFILE</a> <b>ITEM LISTINGS</b>							
Footer	<a href="#">ABOUT</a> <a href="#">CONTACT</a> <a href="#">TERMS</a>							

Main

Footer

# Notifications Page

Header

<a href="#">LOGO</a>	<a href="#">HOME</a>	<a href="#">SORT BY...</a>	<a href="#">ALL</a> ▼	<input type="text" value="Search item by name ..."/>	<a href="#">CART</a>	<a href="#">REPORT</a>	<a href="#">USER ▼</a>
Main	<b>YOUR NOTIFICATIONS</b>		<a href="#">NOTIFICATIONS</a> <a href="#">PROFILE</a> <a href="#">ITEM LISTINGS</a>				
	<p>Please take responsibility in updating your listings once a sale is made. Once an agreement is made, agree on a meet up location and click the confirm meet up button.</p> <p><a href="#">View Profile</a> <a href="#">Delete Thread</a></p>						
	<p><b>User 3</b></p> <p>Username (You)</p> <p>Date: March 5, 2017 - 11:00 am <a href="#">Reply</a></p> <p>Username (You)</p> <p>Date: March 6, 2017 - 5:05 pm <a href="#">Send</a></p> <p><b>User 3</b></p> <p>Username (You)</p> <p>Date: March 6, 2017 - 9:00 pm <a href="#">Reply</a> <a href="#">Meet Up</a></p>						
	<p><a href="#">ABOUT</a> <a href="#">CONTACT</a> <a href="#">TERMS</a></p>						
	<p>Comment: The list on the left represents the current users interested in buying or selling an item, and the content in the middle represents the ongoing message thread between you and the current user from that list on the left.</p>						

Footer

# Editable Profile Page

Header

LOGO HOME SORT BY... ALL Search item by name ...

CART REPORT USER ▾

Main

YOUR PROFILE		NOTIFICATIONS	PROFILE	ITEM LISTINGS
	Photo	Username <input type="text" value="Username"/>	Major <input type="text" value="Computer Science"/>	Photo <input type="text" value="Upload a photo upto 5 MB"/>
		Date joined: Aug 6, 2016		
<b>Biography</b> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.				
<input type="button" value="EDIT"/> <input type="button" value="SAVE EDIT"/>				
Footer				
ABOUT CONTACT TERMS				

Comment: Username cannot be changed

## 7) Competitive Analysis

Registered users can post multiple images for each product to enhance the advertising quality of their product. Messaging is also available directly through the website for faster communication. The website admins can monitor these messages for any misconduct to promote a safe environment for users.

**Competitive Analysis Graph of Features**

	Our Application	sellstudentstuff	Craigslist	student2student
Search	+	+	++	+
Filters	+	+	+	-
Uploading Photos	+	+	+	+
<b>Delivery Cost And Time</b>	++	-	-	-
Variation in Items offered	+	-	+	-
No Service charge	+	+	-	+
Messaging	+	-	-	-
<b>Convenient Meetup</b>	++	-	-	-

Legend: Feature exists +, Superior feature ++, Feature does not exist -

When students purchase products online, a common issue is the delivery time to receive their desired product. For example, books are typically expensive to buy and slow to deliver. Paying for quick delivery adds even more onto the total cost. Unlike our competitors, with SFSU Congre-Gator's Market, students can meet on campus as quickly as the same day or whenever their schedules permit! Meeting in-person allows buyers to inspect the product before paying, and there are no delivery costs for either party. Also, the Convenient Meetup feature takes the hassle of coordinating schedules out of the hands of the student by comparing user input schedules between buyers and sellers. It's one more way to make life easier for the student at Congre-Gator's Market!

## **8) High Level Architecture**

### **1. 01-LAMP Stack: (SF-SUSE Server Information)**

- 1.1. Host: Amazon Cloud
- 1.2. OS: Ubuntu Server, Version: 16.04
- 1.3. MySQL Version: 5.7
- 1.4. PHP Version: 7.0.13
- 1.5. OpenSSH Version: 7.2
- 1.6. Git Version: 2.7.4
- 1.7. Python: 2.7
- 1.8. Ruby: 2.3.1
- 1.9. nodejs: 4.2.6
- 1.10. npm: 3.5.2
- 1.11. Less: 481
- 1.12. Sass: 3.4.23

### **2. PHP Framework:**

- 2.1. CodeIgniter: Version 3.1.3

### **3. GUI Technologies:**

- 3.1. Javascript: Version 1.8
- 3.2. jQuery: Version 3.1.1
- 3.3. Bootstrap: Version 4.0.0-alpha.6
- 3.4. CSS 3
- 3.5. Font Awesome (Glyphicons) Version 4.7.0

### **4. Major Browsers:**

- 4.1. Mozilla Firefox: Version 51.0, 51.0.1 (64-bit)
- 4.2. Safari: Version 9.1.3, 9.0.2,
- 4.3. Google Chrome: Version 56.0.2924.87 (64-bit)

### **5. Team's account where website will be served:**

- 5.1. <http://www.sfsuse.com/~sp17g04>

### **6. Team's application of choice where website contributions will be made:**

- 6.1. Github

## 9) Database Design

reg_user		
Field Name	Type	Constraints
user_id	INT	AUTO INCREMENT, PRIMARY KEY, NOT NULL.
name	VARCHAR	NOT NULL
sfsu_email	VARCHAR	NOT NULL, UNIQUE
mobile	INT(10)	NOT NULL, UNIQUE
password	VARCHAR	NOT NULL
biography	VARCHAR	NULL
major_id	INT	FOREIGN KEY(majors.major_id)
status	VARCHAR	"ACTIVE","BLOCKED"
registration_date	DATE	CURRENT_TIMESTAMP
username	VARCHAR	UNIQUE, NOT NULL

reg_user_pic		
Field Name	Type	Constraints
user_id	INT	NOT NULL, FOREIGN KEY(reg_user.user_id)
pic	BLOB/VARCHAR	NULL
thumbnail	BLOB/VARCHAR	NULL

reg_user_notification		
Field Name	Type	Constraints
id	INT	AUTO INCREMENT, PRIMARY KEY, NOT NULL.
sender_id	INT	FOREIGN KEY(reg_user.user_id)
receiver_id	INT	FOREIGN KEY(reg_user.user_id)
message	VARCHAR	NOT NULL
date	DATE	CURRENT_TIMESTAMP
listing_id	INT	FOREIGN KEY(item_listing.listing_id)
status	VARCHAR	"UNSEEN","SEEN"

sfsu_major		
Field Name	Type	Constraints
major_id	INT	AUTO INCREMENT, PRIMARY KEY, NOT NULL.
major_name	VARCHAR	NOT NULL, UNIQUE
date_created	DATE	CURRENT_TIMESTAMP

item_category		
Field Name	Type	Constraints
category_id	INT	AUTO INCREMENT, PRIMARY KEY, NOT NULL.
category_name	VARCHAR	NOT NULL, UNIQUE
date_created	DATE	CURRENT_TIMESTAMP

item_listing		
Field Name	Type	Constraints
listing_id	INT	AUTO INCREMENT, PRIMARY KEY, NOT NULL.
category_id	INT	FOREIGN KEY(item_category.category_id)
price	INT	>=0 and <10000.
date_posted	DATE	CURRENT_TIMESTAMP
seller_id	INT	FOREIGN KEY(reg_user.user_id)
display_pic_id	INT	FOREIGN KEY(item_pics.pic_id)
title	VARCHAR	NOT NULL
description	VARCHAR	NULL

item_pics		
Field Name	Type	Constraints
item_pic_id	INT	AUTO INCREMENT, PRIMARY KEY, NOT NULL.
listing_id	INT	FOREIGN KEY(item_listing.listing_id)
pic	BLOB/VARCHAR	NOT NULL
thumbnail	BLOB/VARCHAR	NOT NULL

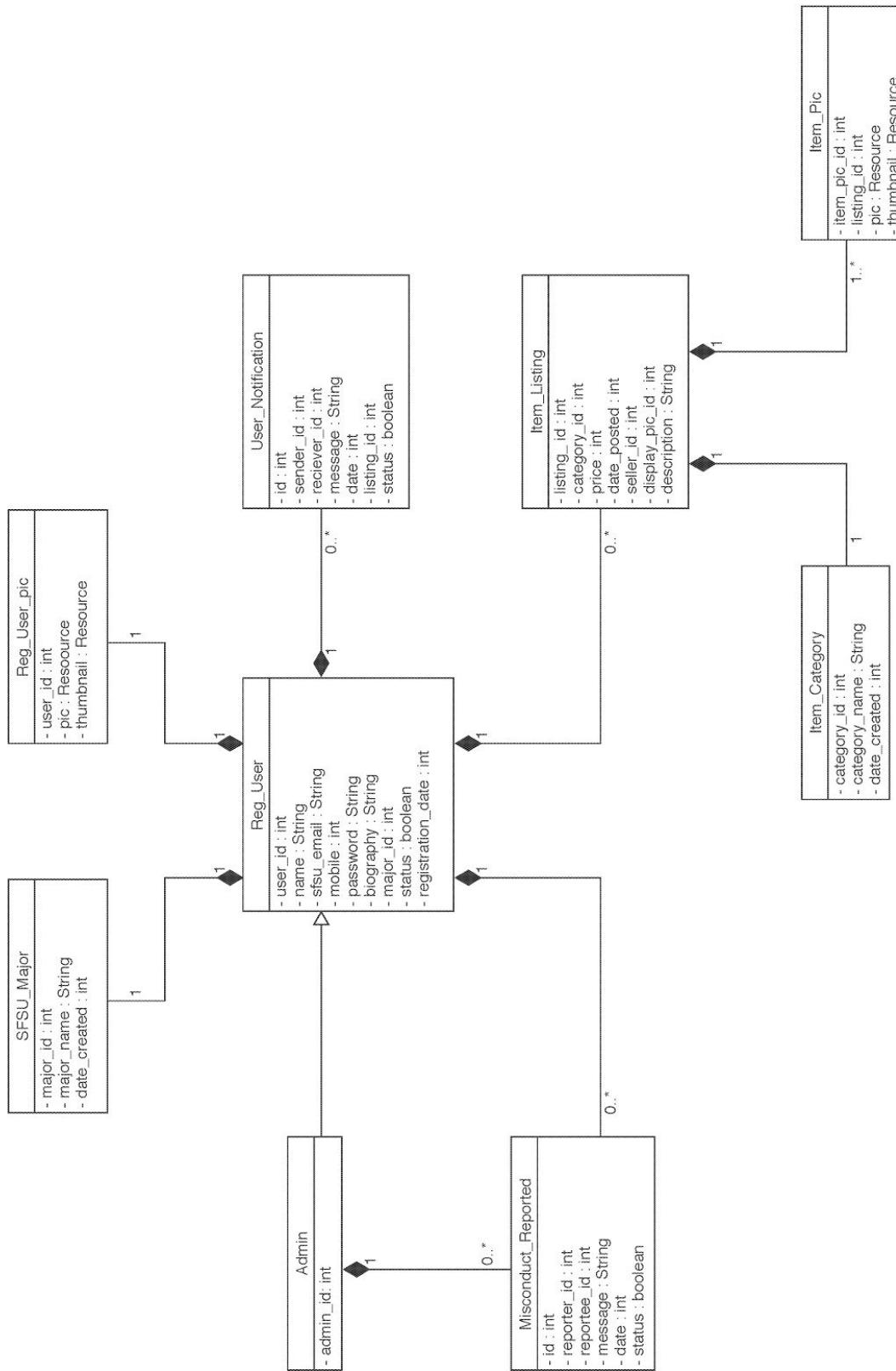
## 9.1) Search Strategy

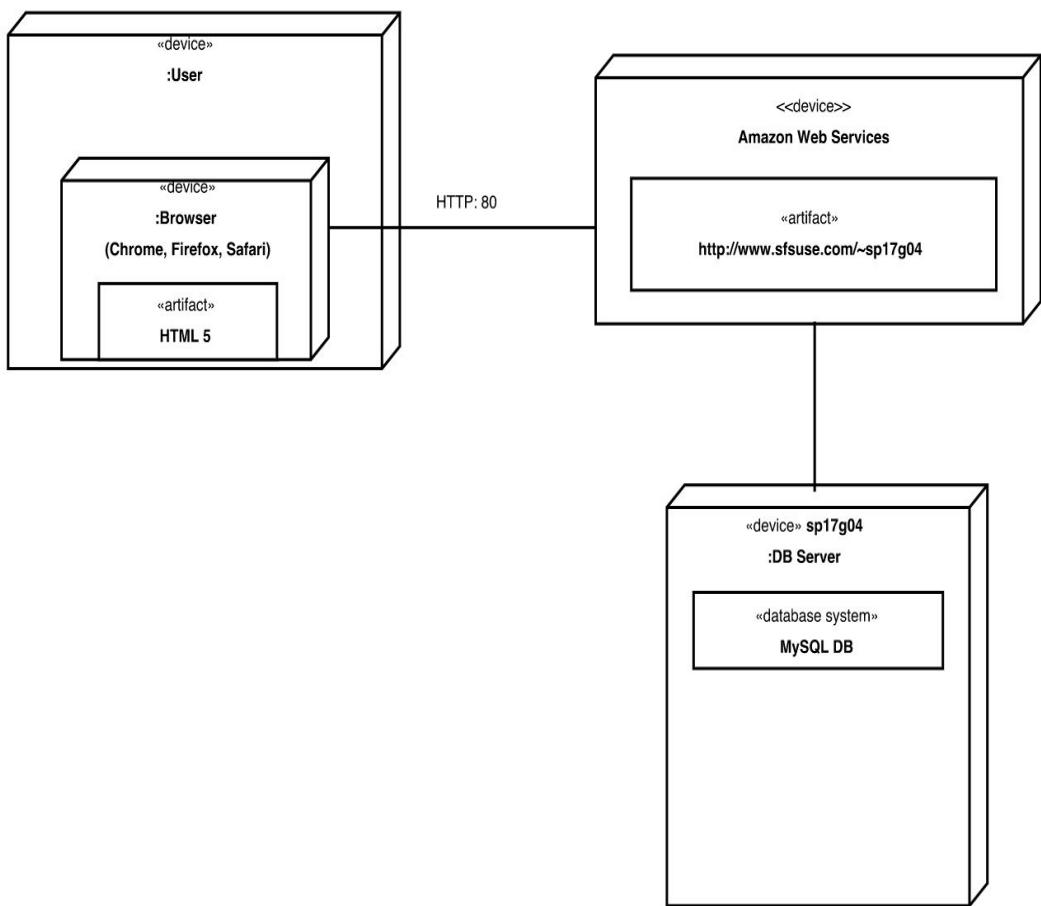
Non-registered/registered users shall be able to search through item listings in the search bar. When the search query is sent to the system, it will go through the **item\_listing** table and do **LIKE %query%** on the title field based on the **category** selected in the drop-down next to the search bar. If no result comes up, then it will perform a **LIKE %query%** on the description field of **item listings** in that **category**. Results will be posted if available, otherwise a message will be shown to the user and all available item listings will be displayed. If the **category** selected is ‘All’, then the search omits the **category** from the search criteria.

## 9.2) Files or BLOBS

We have chosen BLOBS as the means to store images of items. They are more convenient and make code much more readable. Also, BLOBS are more secure as compared to File system accesses because DB systems already have a level of authentication in them.

## 10) UML Diagrams (Class and Deployment)





## 11) Key Risks

### Varying Levels of Competency

On the tools we are using, some of the team members will have had more experience than others, most notably with our PHP framework and Github. The team will mitigate discrepancies with honest evaluations of skill levels and delegation of the workload. While we must meet deadlines, we must also avoid heaping too much work on a few individuals as well as denying others opportunities to learn.

### Legal

The software team will mitigate legal issues with due diligence. Lawyers are expensive, and the scope of our project is relatively small. If we've correctly identified key risks, this seems possible. When in doubt, we can hire a lawyer. Additionally, we shall implement a strictly worded terms-of-service agreement. What follows is a list of specific legal key risks:

- **Intellectual Property**
  - Software features shall not infringe upon intellectual property. The imminent danger is with Convenient Meetup.
- **Advertising: False Claims and Third Party Terms of Service**
  - We need to be sure we don't make false claims. For example, Convenient Meetup compares user schedules. We don't provide a venue for users to meet. Furthermore, we need to be sure that we do not infringe upon the terms and conditions of any third party sites we might like to use for advertising such as Facebook and other popular social media platforms.
- **Defamation**
  - We claim to offer superior services than competitors in some respects. If a third party promotes these claims, they should be made carefully so as not to be construed as defamation.
- **Privacy**
  - Users will register with private information. We need to be sure we are in compliance with privacy protection laws.
- **Copyrighted Images: Us and Our Users**
  - Copyrighted images could get us in trouble. For example, the SFSU logo is copyrighted. While the software team should find it relatively easy to avoid the use of copyrighted images in our UI, a right of users is that they have the freedom to upload their pictures. The terms of service should outline we accept no responsibility for images uploaded by our users.

## **12) Team**

### **Ihsan Taha:**

1. CEO of the team.
2. Designing UI (Bootstrap) for the project.
3. Github curator.
4. Back-end developer.

### **Prateek Gupta:**

1. CTO of the team.
2. Database design and development.
3. Back-end developer.

### **Darel Ogbonna:**

1. Documentation.
2. Database management and maintenance.
3. Back-end Developer.

### **Shane Cota:**

1. Documentation.
2. Back-end Developer.

### **Kevin Chu:**

1. Front-end developer.
2. Back-end developer.

### **Mark Tompong:**

1. Front-end developer.
2. Back-end developer.

### **13) Checklist**

- Team decided on basic means of communications: DONE
- Team found a time slot to meet outside of the class: DONE
- CTO chosen and working out well so far: DONE
- Github master chosen: DONE
- Team ready and able to use the chosen framework: DONE
- Skills of each team member defined and known to all: DONE
- Team lead ensured that all team members read the final M2 and agree/understand it before submission: DONE

# **SW Engineering CSC 648/848 Spring 2017**

## **Section 01**

### **SFSU Congre-Gator Market**

#### **Team 04 (local)**

**Ihsan Taha ([ihsan@mail.sfsu.edu](mailto:ihsan@mail.sfsu.edu))**  
**Prateek Gupta**  
**Darrel Ogbonna**  
**Shane Cota**  
**Kevin Chu**  
**Mark Tompong**

**Milestone 3 Feedback Summary Document**  
**17<sup>th</sup>, April 2017**

## **Feedback Summary:**

For our team meeting with Professors Dragutin Petkovic and Anthony Souza, we went over the review of our prototypes and planning for the final product delivery. During this scheduled 30 minute review meeting we got feedback with respect to the software development process, major UI screens, software architecture, algorithms, identification of technical risks, teamwork and overall effectiveness of our team.

In the review process of our prototype, Congre-Gator Market, Professor Petkovic simulated a typical user's experience by pretending to access and navigate the website as if he were doing so from home. During this simulation, we were not allowed to offer instructions or guidance unless specifically asked to do so by the Professor. Overall, the review of our prototype was pretty favorable. All of the elements of the architecture were present. And our search algorithm was working well. Most of the feedback had to do with small features in our UI that needed adjusting to facilitate a better user experience.

With respect to the homepage, we were instructed to move the buttons for browsing through posted items on the home page away from the lower left corner, where the Professor contends, nobody ever looks. We were also told to change the displayed item listings from most recently listed to most recently chosen. Also, we were instructed to put our sorting options for the search bar in a pull-down menu. Finally, with respect to the homepage, we were instructed to display messages upon the user logging-in that would prompt the user to different parts of the page that might be easy to overlook. These messages are to ensure the user doesn't miss out on any of the functionality the website offers.

With respect to other features of the website, we were advised to allow a user who is not logged-in the ability to add an item when they click on "sell." Allow all the functionality of creating an item for sale for said user, but when they go to save the listing they will be required to log-in. We were also advised to simplify our meetup feature, by just letting the seller of an item choose the meetup location rather than provide features in our notifications page that would allow both parties to negotiate and agree upon a location.

With respect to teamwork, it was noted that our Github commits were uneven amongst members, but we explained that for a majority of our commits during the early part of this process the team was doing silent commits and thus was difficult to keep track of who was doing what.

In conclusion, the architecture and search algorithms were working well, and we only have to update some features in our user interface. Professor Petkovic even recommended we consider submitting our project to the COSE Science Fair on account of how clean our design was overall.

## **Priority 1 Functionality:**

### **Priority 1**

#### **1. Non-registered**

- 1.1. Shall be able to browse the website for available items for sale.
  - 1.1.1. Listings shall be paginated.
  - 1.1.2. Shall be able to view carousel of photo's uploaded by seller.
- 1.2. Shall be able to filter the items via drop down menus:
  - 1.2.1. By 'Category.'
  - 1.2.2. By 'Price.'
  - 1.2.3. By 'Date of item's listing.'
- 1.3. Shall be able to register on the website to buy or sell items via registration form.
  - 1.3.1. The registration form shall require a unique username, a password, and an SFSU email.

#### **2. Registered user**

- 2.1. Shall be able to do everything a non-registered user can do.
- 2.2. Shall be able to login to the website.
- 2.3. Shall be able to buy an item for sale.
- 2.4. Shall be able to post an item for sale.
- 2.5. Should be able to choose a place to meet up from a map.
  - 2.5.1. Shall be able to update his/her item for sale.
  - 2.5.2. Shall be able to remove his/her item for sale.
- 2.6. Shall be able to view the items that were posted by him/her for sale.
- 2.7. Shall be able to message another registered user to initiate a transaction.
  - 2.7.1. Messages shall be updated "live" in a thread with the latest message at the bottom.

#### **3. Administrator**

- 3.1. Shall be able to remove an item listing.
- 3.2. Shall be able to warn registered users of misconduct.

3.2.1. The admin Shall be able to to penalize said users by banning them from the website ultimately.

3.3. Shall be able to remove photos.



# **SW Engineering CSC 648/848 Spring 2017**

## **Section 01**

### **SFSU Congre-Gators Market**

#### **Team 04 (local)**

Ihsan Taha ([ihsan@mail.sfsu.edu](mailto:ihsan@mail.sfsu.edu))

Prateek Gupta

Darrel Ogbonna

Shane Cota

Kevin Chu

Mark Tompong

**Milestone 4**  
**21<sup>st</sup>, May 2017**

#### **History Table**

<b>Initial Draft of Milestone 1</b>	<b>02/27/2017</b>	<b>V1.0</b>
<b>First Revision &amp; Freeze Draft of Milestone 1</b>	<b>02/28/2017</b>	<b>V1.1</b>
<b>Initial Draft of Milestone 2</b>	<b>03/13/2017</b>	<b>V2.0</b>
<b>First Revision &amp; Freeze Draft of Milestone 2</b>	<b>03/15/2017</b>	<b>V2.1</b>
<b>Milestone 3 Feedback Summary</b>	<b>04/15/2017</b>	<b>V3.0</b>
<b>Initial Draft of Milestone 4</b>	<b>05/03/2017</b>	<b>V4.0</b>
<b>First Revision &amp; Freeze Draft of Milestone 4</b>	<b>05/21/2017</b>	<b>V4.1</b>

## **Product Summary**

“SFSU Congre-Gators Market” is a website for SFSU students to buy and sell goods. Congre-Gators is intended to be a hub for students in need of offloading items for cash to link up to other students in need of picking up used goods at an affordable price.

The home page at Congre-Gators displays the most recently posted items. Users may browse these items or explore other item listings via the search bar without being logged-in. This functionality is akin to “window shopping” and allows the user to peruse the website on an informal trial basis before deciding to register if they haven’t already done so. Users can sort items by price, date and name. Each posted item presents an opportunity to purchase it by presenting an easily visible button labeled ‘Buy’. Upon attempting to purchase an item, if a user is not already logged in, they will be informed that they must log-in to purchases an item.

Users are also invited to sell items via the button “sell” displayed in the top right corner. Selecting sell will redirect a user to a page where they may upload item images, and write descriptions of their items and set a price. As with buy, when a user who is not logged-in attempts to upload any data they will be informed they must log-in to do so.

Users will have easy access to either log-in or register with the website. Upon logging in, a visitor will be redirected back to the most recently visited page before logging in. Upon registration, a user will also be redirected back to the most recently visited page before registration.

Logged-in visitors have access to additional functionality general users don’t have. In addition to being able to buy and sell items freely, a user can check their notifications page which records conversations with other users. The notifications page offers the option of helping coordinate a meetup place between parties by accessing Google Maps.

Finally, a logged-in user may access a drop-down called “My Account” which provides links to a profile page where a user may edit information about themselves as well as a report lightbox which allows one to report misconduct to website administrators, and finally the simple ability to logout.

Congre-Gators is visible to everyone, and anyone may browse for items. However, full functionality is offered only to SFSU students at this time. This visibility and limited functionality will allow relevant users to explore the site and ultimately give it a trial before registration, akin to window shopping.

## **Usability Test Plan**

### **Test Objective:**

The objective of the usability test for the search feature in Congre-Gators is to ensure that the search bar is easy to find, use and that it yield relevant search results. Congre-Gators works because of its ability to bring relevant goods to a user in need. Some may end up being uncommonly found. It is therefore essential that the search feature be easy to use such that if a user is looking for something that happens to have been posted to Congre-Gators, they are able to find it.

### **Test Plan:**

System Setup: The user will go to the Congre-Gators homepage by visiting the following link:

<http://sfsuse.com/~sp17g04>

Starting Point: The user will be on the homepage and not require to log in.

Task to be Accomplished: The user will be given an item to search on as well as free reign to search for whatever the user desires. The user shall do so by specifying categories as well as a general search.

Completion Criteria: The user shall receive the relevant results to their search.

Intended User: SFSU students who are interested in flipping unused goods for a profit, as well as students who are in need of cheap items to help furnish their life in college.

### **URL:**

<http://sfsuse.com/~sp17g04>

**Questionnaire:**

Question:	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Search bar is easily visible and user input is easily entered					
Drop-down menu for categories is easily visible					
Search results are relevant					

Comments:	
-----------	--

**Quality Assurance Test Plan****Test Objective:**

The objective of the usability test for the search feature in Congre-Gators is to ensure that the search bar is easy to find, use and that it yields related search results. Congre-Gators works because of its ability to bring goods relevant to a user in need. Some may end up being uncommonly found. It is therefore essential that the search feature is easy to use such that if a user is looking for something that happens to have been posted to Congre-Gators, they can find it.

**HW and SW Setup:**

The website shall be viewable in a standard desktop/laptop browser and shall render correctly on the latest version of all major browsers: Mozilla Firefox, Google Chrome, and Safari.

**Feature to be Tested:**

Search bar/categories.

**Actual Test Cases:**

Number	Description	Test Input	Expected Output	Pass/Fail
1.	General Search – no specific category used	Search on “likely” posted items	Relevant results displayed	Pass
		Search on “nonsense” items	Invalid search message displayed, followed by popular items for sale	Pass
2.	Category Search – specific category used	Search on an item related to the selected category	Relevant results displayed	Pass
		Search on an item unrelated to the selected category	No search results, followed by popular items for sale	Pass
		Search on “nonsense” item	Invalid search message displayed, followed by popular items for sale	Pass

Shane Cota <[shane.cota@gmail.com](mailto:shane.cota@gmail.com)>**CSc 648, Request for Code Review**

2 messages

**Shane Cota** <[shane.cota@gmail.com](mailto:shane.cota@gmail.com)>  
To: [ihsan@mail.sfsu.edu](mailto:ihsan@mail.sfsu.edu)

Sun, Apr 30, 2017 at 2:00 PM

Hello Ihsan,

Following is a portion of the code from views/common/registered\_navbar.php. Since we are using our search feature for usability test and QA, we should also use a portion of related code for code review. Please go through it, and make sure are adhering to coding style. Make comments where necessary. If you have any questions you can hit me up, or refer to section 4 of Milestone 4.

Thanks!  
Shane

```
<!-- Centered Category Search & Input Search -->
<form class='form-inline mr-auto fix-align' style='padding-top: 4px' action=<?php echo base_url() . "home" ?>" id="searchSubmit" method=GET>
    <label class='sr-only' for='inlineFormInputGroup'>Search</label>
    <div class='input-group mb-2 mr-sm-2 mb-sm-0'>
        <div class='form-group'>
            <select class='custom-select mb-2 mr-sm-2 mb-sm-0' id='categories' name='category' onchange='document.forms["searchSubmit"].submit()'>
                <option value="">All</option>
                <?php
                    // Populates category list
                    foreach ($categories as $category) {
                        // If user chose category, mark that option as selected
                        $selector = "";
                        if ($currentCategory == $category->category_id)
                            $selector = " selected='selected'";
                        
                        // Adds category option to list
                        print "<option value=$category->category_id$selector>$category->category_name</option>\r\n";
                    }
                </?>
            </select>
        </div>
        <!-- attempting to call controller for form validation on search -->
        <?php
            // echo form_open modified by scota
            //echo form_open('Users/search');
            $data = array(
                'class'      => 'form-control',
                'id'         => 'inlineFormInputGroup',
                'name'       => 'search',
                'placeholder' => 'Search ...',
                'type'       => 'search',
                'style'      => 'height: 40px',
                'value'      => $searchTerms
            );
        
```

```
echo form_input($data);
?>

<input type='hidden' name='sort' id='sort'>
<button class='btn btn-success' style='cursor: pointer; height: 40px' type='submit'><i class='fa fa-search' aria-hidden='true'></i></button>
</div>
</form>
```

---

Ihsan M Taha <ihsan@mail.sfsu.edu>  
To: Shane Cota <shane.cota@gmail.com>

Sun, Apr 30, 2017 at 4:51 PM

Hey Shane, thanks for sending the code. While it is functional, there are only minor issues with the indentation, alignment of a CodeIgniter form element, and comments. I have edited the code and highlighted in red where these changes are made.

#### Indentation:

1. In line four (now five), the div tag appeared nested when it should have been right underneath the label tag. This effect cascades to everything following it so I just highlighted the first line.
2. In line seven (now eight), the option tag is a part of the select tag, so we should indent it to appear as a part of the select tag.

#### Alignment:

1. In lines 26-35 (now 30-41), the arrows were not aligned and the echo statement was way off alignment-wise as well.

#### Spacing:

1. Since we generally try to avoid spacing the first and last line of a nested element, I have edited the spacing to appear the way it is below.

## PHP Comments:

1. Line nine, 11, 16, and 24 (now 11, 13, 19, and 28) the sentences should end with a period.

## HTML Comments:

1. Line 23 (now 26), 'atmempting' is misspelled and needs to change to 'Calls' anyways because the code works now.

```
<!-- Centered Category Search & Input Search -->
<form class='form-inline mr-auto fix-align' style='padding-top: 4px' action=<?php
echo base_url() . "home" ?>" id="searchSubmit" method=GET>
    <label class='sr-only' for='inlineFormInputGroup'>Search</label>

    <div class='input-group mb-2 mr-sm-2 mb-sm-0'>
        <div class='form-group'>
            <select class='custom-select mb-2 mr-sm-2 mb-sm-0' id='categories'
name='category' onchange='document.forms["searchSubmit"].submit()'>
                <option value="">All</option>

                <?php
                    // Populates category list.
                    foreach ($categories as $category) {
                        // If user chose category, mark that option as selected.
                        $selector = "";

                        if ($currentCategory == $category->category_id)
                            $selector = " selected='selected'";

                        // Adds category option to list.
                        print "<option value=$category->category_id$"
selector>$category->category_name</option>\r\n";
                    }
                ?>
            </select>
        </div>
```

```
<!-- Calls controller for form validation on search -->
<?php
    // echo form_open modified by scota.
    // echo form_open('Users/search');
    $data = array(
        'class'      => 'form-control',
        'id'
    => 'inlineFormGroup',
        'name'       => 'search',
        'placeholder' => 'Search ...',
        'type'        => 'search',
        'style'
    => 'height: 40px',
        'value'
    => $searchTerms
    );
    echo form_input($data);
?>

<input type='hidden' name='sort' id='sort'>

<button class='btn btn-success' style='cursor: pointer; height: 40px'
type='submit'><i class='fa fa-search' aria-hidden='true'></i></button>
</div>
</form>
```

---

**From:** Shane Cota <[shane.cota@gmail.com](mailto:shane.cota@gmail.com)>  
**Sent:** Sunday, April 30, 2017 2:00:26 PM  
**To:** Ihsan M Taha  
**Subject:** CSc 648, Request for Code Review

[Quoted text hidden]

## **Self-Check on Best Security Practices**

### **Assets:**

User information including passwords and associated email.

### **User password:**

Yes.

### **Input validations:**

Login and registration accept a limited number of alphanumeric characters. Registration enforces the use of email ending in '@mail.sfsu.edu'. Search bar accepts alphanumeric characters as well as spaces.

## **Adherence to Non-functional Specs**

✓ = Done

- ✓ The application shall be developed using the LAMP stack provided by the class CTO.
- ✓ The application shall be developed using an approved PHP Framework from the class CTO.
- ✓ The application shall be developed using GUI technologies.
- ✓ The application shall be hosted and deployed on Amazon Web Services provided by the class CTO.
- ✓ The application shall be optimized for standard desktop/laptop browsers.
- ✓ The application shall render correctly on the two latest versions of at least three major browsers such as Mozilla, Safari, and Chrome.
- ✓ The application shall have responsive UI code so it can be adequately rendered on mobile devices, but no mobile native app is to be deployed.
- ✓ Data shall be stored in MySQL database on the class server in the team's account.
- ✓ Privacy of users shall be protected, and all privacy policies will be appropriately communicated to the users.
- ✓ No more than 50 concurrent users shall be accessing the application at any time.
- ✓ The language used shall be English.
- ✓ The application shall be very easy to use and intuitive. No prior training shall be required to use the website.

- ✓ Google Analytics shall be added.
- ✓ Messaging between users shall be done only by class approved methods to avoid issues of security with email services.
- ✓ Pay functionality shall not be implemented on the website.
- ✓ Site security shall be applied according to best practices.
- ✓ Modern SE processes and practices shall be used including collaborative and continuous SW development.
- ✓ The website shall prominently display the following text on all pages “SFSU Software Engineering Project, Spring 2017. For Demonstration Only.”
- ✓ The team shall use Github to maintain the website codebase.

# **Product Screen Shots**



Home

All

▼

Search ...



Sell · Sign Up · Login

# SFSU Congre-Gators

Welcome to SFSU Congre-Gators, where SFSU students can buy and sell a variety of different items relevant to their needs. Shop anything from books, furniture, laptops, and much more from other students just like you, who know what it's like to need that extra support to make it through college!

Want to know more? Use our search and/or category filter to view our options!

Showing page 1 of 25 items

Most Recent Items

Sort ▾

2D Artwork for Game Stud...

\$9.50



Buy

Variety of Audiobooks

\$60.00



Buy

GMAT Books

\$20.00



Buy

BOOTS

\$150.00



Buy

Background Image Pic-

\$1100.00



Buy

Almost New Split Tables

\$250.00



Buy

Cell Phone

\$25.00



Buy

2000 Honda Civic

\$3000.00



Buy

1 | 2 | 3 | 4 | Next



Home

Books



book



Sell Sign Up Login

# SFSU Congre-Gators

Welcome to SFSU Congre-Gators, where SFSU students can buy and sell a variety of different items relevant to their needs. Shop anything from books, furniture, laptops, and much more from other students just like you, who know what it's like to need that extra support to make it through college!

Want to know more? Use our search and/or category filter to view our options!

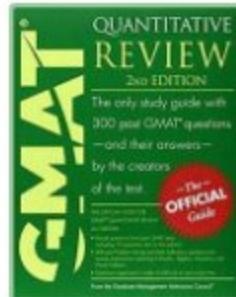
Showing page 1 of 2 items

Items by Lowest Price in Books

Sort ▾

## GMAT Books

\$20.00



Buy

## Variety of Audiobooks

\$60.00



Buy



Home

All

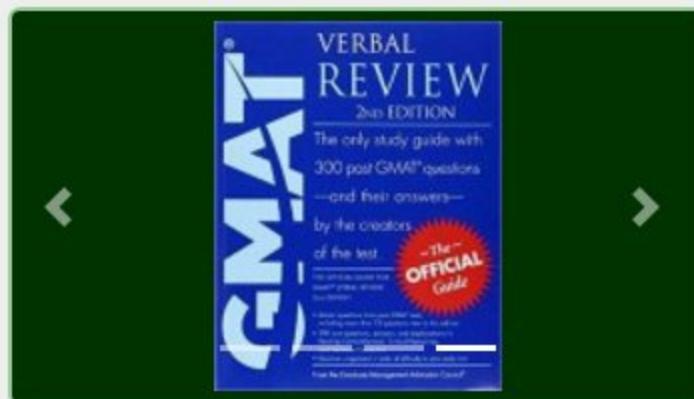


Search ...



Sell Sign Up Login

# GMAT Books



**Name:** GMAT Books  
**Category:** Books  
**Price:** \$20.00  
**Date:** 15-05-2017  
**Seller:** brhodes1

[Buy](#)**Description:**

GMAT books...getting ready for grad school ;)



# Sign Up!

You must be a student of San Francisco State University and use an SFSU email to register.

May only be alphanumeric and at least 8 characters long

 \* Enter your username

Must end with @mail.sfsu.edu

 \* Enter your email

May only be alphanumeric and at least 4 characters long

 \* Password \* Confirm Password

Enter the word shown in the image

Optional

 Liberal and Creative Arts ▾

I agree with the [Terms & Services](#) \*

**Submit**



Home

All



Search ...



Sell Sign Up Login

# Login

	ihsan@mail.sfsu.edu
	.....

[Forgot password?](#)

[Login](#)

[Not a member? Sign up!](#)

[Sign Up](#)



# Post a New Listing

Edit your new listing or update your current one

May only be alphanumeric and three to 30 chars long

Name

Category

Must be at most four digits with or without the decimal

Price

Description (300 chars max)

Six touch-screen directional buttons to add to the casual left and right buttons.



Display picture of Item (5 MB max . 2,565 X 1,445)

down\_arrow.png



Pic 2

up\_arrow.png





# Your Current Listings for Sale

View your current items posted for sale. You can edit or remove a current listing, or add a new listing.

[ADD ITEM](#)

#	Item Name	Category	Price	Date	Update Listing
1	Study Chair	Furniture	\$10.00	15-03-2017	<a href="#">Edit</a> <a href="#">Remove</a>
2	Stylish Table Lamp	Furniture	\$30.00	20-03-2017	<a href="#">Edit</a> <a href="#">Remove</a>
3	Living Room Sofa	Furniture	\$350.00	16-04-2017	<a href="#">Edit</a> <a href="#">Remove</a>
4	Electric Guitar	Electronics	\$575.00	16-04-2017	<a href="#">Edit</a> <a href="#">Remove</a>
5	Boots	Clothing	\$95.00	16-04-2017	<a href="#">Edit</a> <a href="#">Remove</a>
6	Hookah	Miscellaneous	\$90.00	16-04-2017	<a href="#">Edit</a> <a href="#">Remove</a>
7	Bicycle	Miscellaneous	\$180.00	16-04-2017	<a href="#">Edit</a> <a href="#">Remove</a>
8	Linear Algebra and its App.	Books	\$9.00	23-04-2017	<a href="#">Edit</a> <a href="#">Remove</a>
9	2D Movement Buttons	Miscellaneous	\$5.25	22-05-2017	<a href="#">Edit</a> <a href="#">Remove</a>



Home

www.sfsuse.com says:

Are you sure you want to Update the details?

Cancel

OK

Sell Listings Notifications My Account ▾

# Update Listing

You can update the details of this listing. Also, you can add/remove images or change any image for this listing

May only be alphanumeric and three to 30 chars long

Name

Category

Must be at most four digits with or without a decimal

Price

Description (300 chars max)

Six directional buttons to add to the casual left and right buttons.



Display picture of Item (5 MB max . 2,565 X 1,445)

No file chosen



Pic 2

No file chosen



# Your Profile

Update your profile with a picture, new major, and description of your self, or change your password frequently for better security.



Edit your profile picture (5 MB max . 2,565 X 1,445)

Username

Email

Profile Picture  No file chosen

Majors

May only be alphanumeric and at least 4 characters long

New Password

Confirm

Biography (300 chars max)

Hello, I am Ihsan the CEO of SFSU Congre-Gator's Market.

Reset

Save



# Your Profile

Update your profile with a picture, new major, and description of your self, or change your password frequently

## Report Misconduct to Admin



(300 chars max)

 I agree the following claim is true

Close

Send



Edit your profile picture (5 MB max . 2,565 X 1,445)

Profile Picture

Choose File

No file chosen

Majors

Science and Engineering ▾

May only be alphanumeric and at least 4 characters long

New Password \*\*\*\*\*

Confirm \*\*\*\*\*

Biography (300 chars max)

Hello, I am Ihsan the CEO of SFSU Congre-Gator's Market.

Reset

Save



Home

All



Search ...



Sell Listings Notifications My Account ▾

# 2D Artwork for Game Students

Send a notification to studSeller1 to buy this 2D Artwork for Game Students ×

(300 chars max)

Hello, I am interested in getting this artwork pack to add to my collection for my games!

Date: March 10, 2017

Meet-up: Spot 1 - Quad

[View Map](#)

[Close](#)

[Send](#)

Note: You may change the meet-up location, but you must both agree on another location from the provided selection.

Description:

2D touchscreen control buttons for game developers.

[About](#) [Contact](#) [Terms](#)



# Notifications

Communicate with sellers and buyers you've developed a connection with. Whether you've initiated contact to purchase a product, or you've received a notification to make a sale, all messaging is done here. For clarity, **buyers** are color-coded in gold and **sellers** are in the blue.

Once you make an agreement, choose a meetup location and proceed with the transaction when both parties confirm.

**USER LIST**

BUYERS

Ihsan

**MESSAGES**

Profile



Once you make an agreement, choose a meetup location and proceed with the transaction when both parties confirm.

### USER LIST

BUYERS

ihsan

SELLERS

### MESSAGES

ihsan Profile

ihsan: Hello, I am interested in getting this artwork pack to add to my collection for my games!

Send a new message

That's great ihsan. Let's meet up at the Quad. I am free on 05/23/17 after 3:00 pm. You can view my profile and the map for convenience.

Date:

Meet Up Quad ▼

Decline Send

View Map Confirm Transaction



# Ihsan Taha



**Username:** ihsan

**Major:** Science and Engineering

**Date:** 2017-04-01 21:04:03

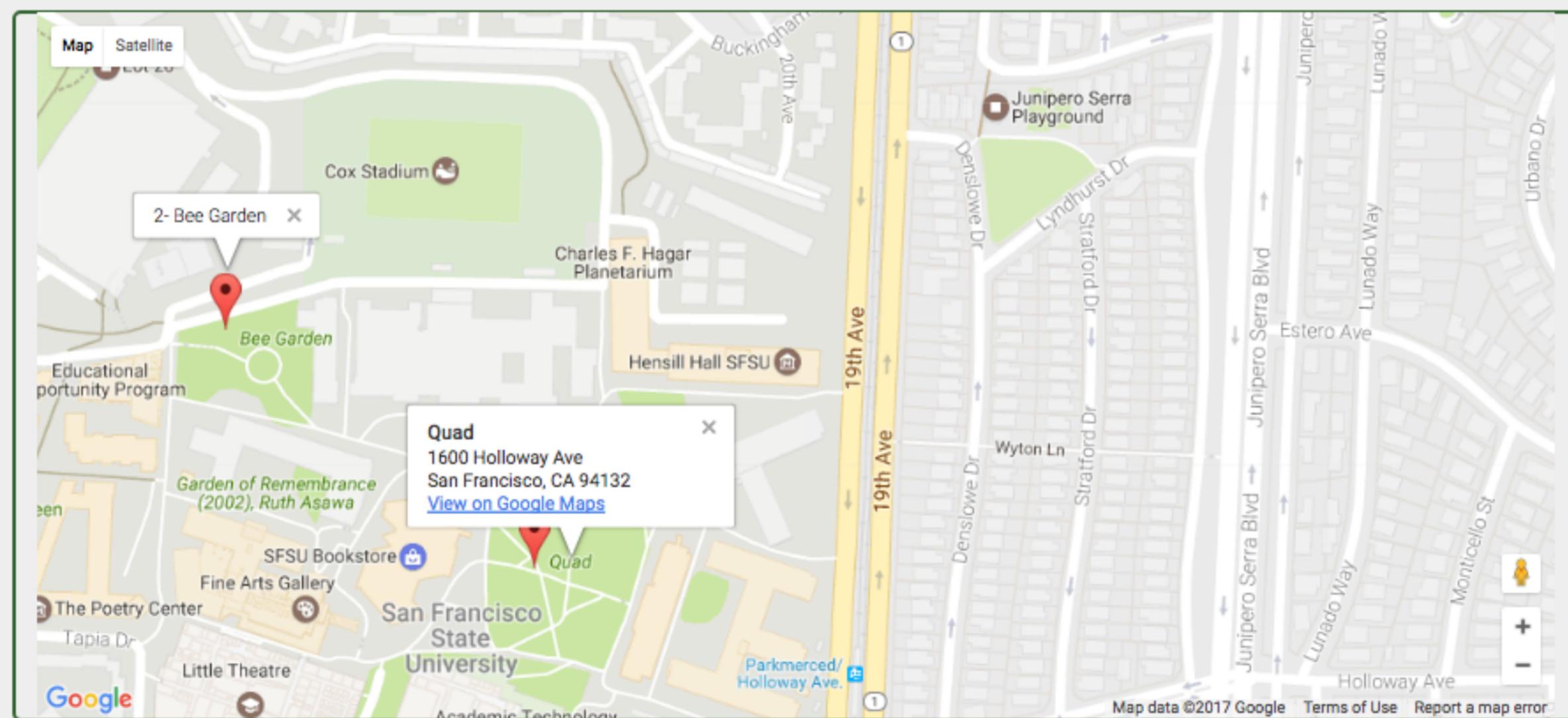
## Biography

Hello, I am Ihsan the CEO of SFSU Congre-Gator's Market.



# Meet Up!

Use the predefined markers to choose a meetup location. For directions, click on the name near the corresponding marker such as Quad or Bee Garden to open Google Maps and navigate to the selected location.





Home

All



Search ...



Sell

Sign Up

Login



Buy

**Study Chair**

\$10.00



Buy

**Table Lamp**

\$20.00



Buy

Previous 1 2 3 4 Next

**Management**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

**SCHEMAS**

- Filter objects
- sp17g04

**Query 1**

```
1 • SELECT * FROM sp17g04.reg_user
```

Result Grid

user_id	username	name	sfsu_email	mobile	biography	password	major_id	registration_d
1	pgupta2	Prateek Gupta	pgupta2@mail.sfsu.edu	4156881159	abcde	\$2y\$12\$DDJA35Xx3ZaLF/3Ff0kb.CiAPPzxGtW...	6	2017-03-15 06
2	ihsan	Ihsan Taha	ihsan@mail.sfsu.edu	4152653692	Hello, I am Ihsan the CEO of SFSU Congre-Gat...	\$2y\$12\$Q8pB/1HVLp8alHS9tb2qtO6E2XHJJnq...	6	2017-04-01 21
3	studSeller	NULL	dogbonna@mail.sfsu.edu	NULL	NULL	\$2y\$12\$cPoFcbyD3B1RvR.RWGsbRuaYciPm...	NULL	2017-05-13 20
6	studSeller1	NULL	test123@mail.sfsu.edu	NULL	NULL	\$2y\$12\$B9IJpO9Es3i524jMckXvNulCyczw6Qv...	NULL	2017-05-13 20
7	fancyPants	NULL	fancyPants@mail.sfsu.edu	NULL	NULL	\$2y\$12\$EXgQEB1OudEAvg3qAzwBfb.drfwV8cj4...	NULL	2017-05-14 13
8	deathStar3	NULL	deathStar3@mail.sfsu.edu	NULL	NULL	\$2y\$12\$vXg6Pd3KMtZRN6oG0Ju.O.Lb3pKO6...	NULL	2017-05-14 13
9	medStu44	NULL	sjones@mail.sfsu.edu	NULL	NULL	\$2y\$12\$/Li4EYwc9OlyZFhc4KY18u.ueEyBz3C...	NULL	2017-05-14 20
10	brhodes1	NULL	brhodes1@mail.sfsu.edu	NULL	NULL	\$2y\$12\$LMw0l4qssHPRD8giu./9N.mCWsF3FA...	1	2017-05-15 01
11	ImHeretoBuyStuff	NULL	BuySell@mail.sfsu.edu	NULL	testing	\$2y\$12\$29ElrcwB1HpsgrM69HBXenOBmXw8...	6	2017-05-15 04
12	bhicks02	NULL	bhicks02@mail.sfsu.edu	NULL	NULL	\$2y\$12\$JSaBN80GeEOmipljxHU9veRkDcgWD...	NULL	2017-05-15 04
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

reg\_user 1

Action Output

Time	Action	Response	Duration / Fetch Time
22:08:07	SELECT * FROM sp17g04.reg_user LIMIT 0, 1000	10 row(s) returned	0.014 sec / 0.000020...

Object Info Session

No object selected

Query Completed

MySQL Workbench - sfsuse\_db

**Management**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

**SCHEMAS**

- Filter objects
- sp17g04

**Query 1**

```
1 • SELECT * FROM sp17g04.item_listing
```

Result Grid

listing_id	category_id	seller_id	title	description	price	posted_on	display_pic	dp_thumbnail
1	3	1	Macbook Pro Retina	15 inch screen size, 2014 model, 16GB RAM an...	1000.00	2017-03-15 06:25:43	BLOB	BLOB
2	2	1	Table Lamp	Beautiful table lamp for students, bought in Jan...	20.00	2017-03-15 06:28:39	BLOB	BLOB
3	2	2	Study Chair	Bought this chair a month ago but now I have to...	10.00	2017-03-15 06:28:40	BLOB	BLOB
4	2	1	Queen Size Bed	Queen size bed. mattress and frame both.	200.00	2017-03-20 05:23:46	BLOB	BLOB
6	2	2	Stylish Table Lamp	Almost new and classic study lamp.	30.00	2017-03-20 05:25:09	BLOB	BLOB
7	1	1	Object Oriented Software Engineering	2nd edition, ISBN: 0-07-710908-2.	25.00	2017-03-20 05:27:37	BLOB	BLOB
8	2	2	Living Room Sofa	Leather sofa with reclining on each end.	350.00	2017-04-16 08:31:37	BLOB	BLOB
9	3	2	Electric Guitar	Vintage kay vanguard electric with sunburst finish.	575.00	2017-04-16 08:30:00	BLOB	BLOB
10	5	2	Boots	Size 8 ugg boots; this style is discontinued!!!	95.00	2017-04-16 08:30:00	BLOB	BLOB
11	8	2	Hookah	Middle eastern hookah with antique design.	90.00	2017-04-16 15:48:39	BLOB	BLOB
12	3	1	Pre-amp	Onkyo P-3300 Pre-Amp.	100.00	2017-04-16 15:48:47	BLOB	BLOB
13	5	1	Yeezys	Size 10 black yeezys.	160.00	2017-04-16 21:31:10	BLOB	BLOB
14	6	1	MJ wallet	Marc by Marc black wallet.	120.00	2017-04-16 21:31:43	BLOB	BLOB
15	8	1	Harley!!!	2002 Harley Road King.	8500.00	2017-04-16 21:31:58	BLOB	BLOB
16	8	2	Bicycle	Vintage bianchi frame road bike.	180.00	2017-04-16 21:32:16	BLOB	BLOB
17	6	1	Baseball cap	Bio world adjustable original luigi snapback.	20.00	2017-04-16 21:32:28	BLOB	BLOB
18	1	2	Linear Algebra and its App.	Brand new Linear Algebra 5th edition hard cover...	9.00	2017-04-23 14:29:57	BLOB	BLOB
28	8	1	2000 Honda Civic	2000 Honda Civic; low miles, very clean	3000.00	2017-05-01 22:23:37	BLOB	BLOB
29	3	1	Cell Phone	LG Xpression 2 Cell Phone *NEW*	25.00	2017-05-01 22:23:39	BLOB	BLOB
30	2	1	Almost New Split Tables	Modern Diekman Split D & E Tables	250.00	2017-05-01 23:58:08	BLOB	BLOB
32	1	6	Background Image Pic-	Pic of forest floor that can be used for computer...	1100.00	2017-05-13 20:46:44	BLOB	BLOB
34	5	6	BOOTS	gore tex boots BRAND NEW	150.00	2017-05-13 20:54:51	BLOB	BLOB
67	1	10	GMAT Books	GMAT books...getting ready for grad school :)	20.00	2017-05-15 02:09:19	BLOB	BLOB
68	1	12	Variety of Audiobooks	Looking to sell these audiobooks. Good for trav...	60.00	2017-05-15 04:53:56	BLOB	BLOB
73	1	6	2D Artwork for Game Students	2D touchscreen control buttons for game develo...	9.50	2017-05-21 01:12:13	BLOB	BLOB
				NULL	NULL	NULL	NULL	NULL

Action Output

Time	Action	Response	Duration / Fetch Time
22:08:07	SELECT * FROM sp17g04.reg_user LIMIT 0, 1000	10 row(s) returned	0.014 sec / 0.000020...
22:09:01	SELECT * FROM sp17g04.item_listing LIMIT 0, 1000	25 row(s) returned	0.034 sec / 1.067 sec

Object Info Session

No object selected

Query Completed

Search reports and help

Create Shortcut BETA

CUSTOMIZATION

Reports

REAL-TIME

Overview

Locations

Traffic Sources

Behavior

Events

Conversions

AUDIENCE

ACQUISITION

BEHAVIOR

CONVERSIONS

## Overview

Right now

3

active users on site

MOBILE DESKTOP

67% 33%

### Top Referrals:

Source	Active Users
There is no data for this view.	

### Top Social Traffic:

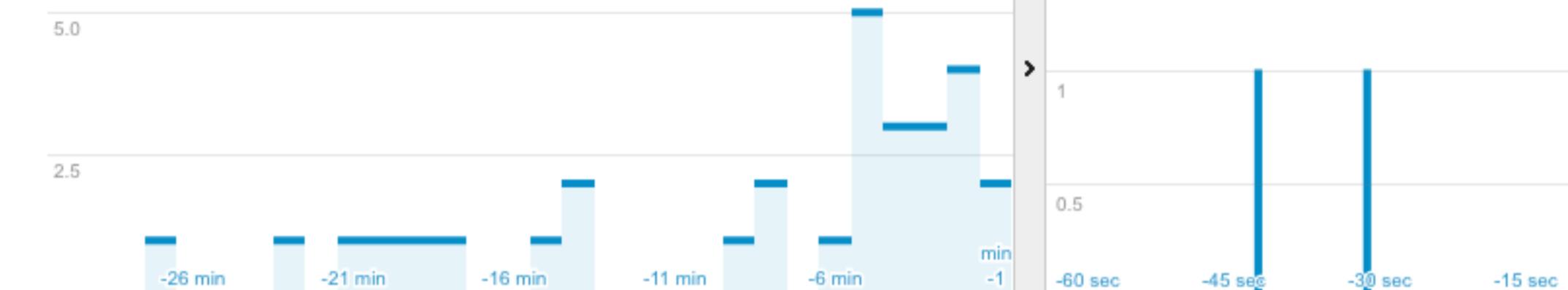
Source	Active Users
There is no data for this view.	

### Top Keywords:

Keyword	Active Users
There is no data for this view.	

## Pageviews

Per minute  
/min

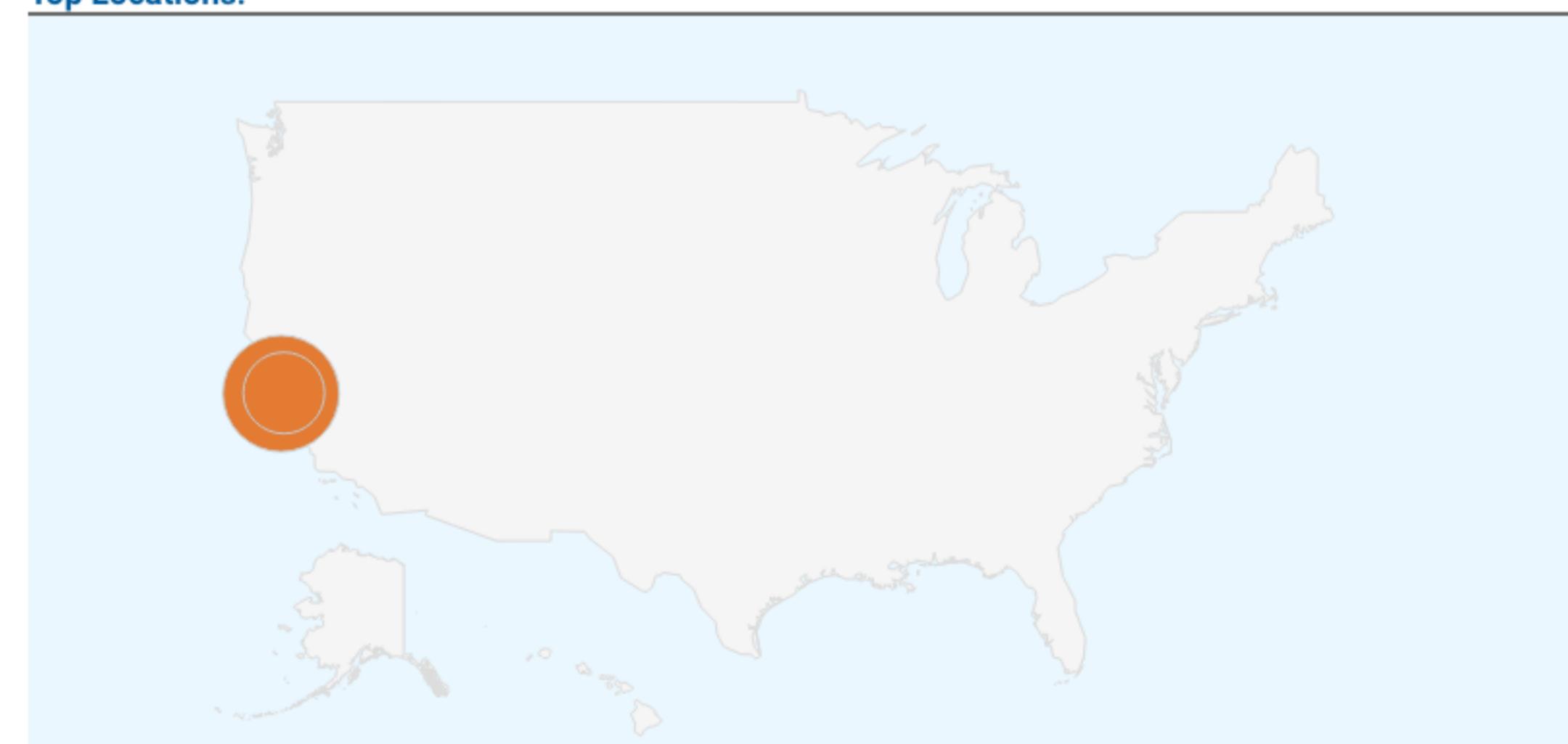


Per second

## Top Active Pages:

Active Page	Active Users
1. /~sp17g04/Home/view/home	2 66.67%
2. /~sp17g04/listing/getitem/9	1 33.33%

## Top Locations:





Search reports and help

CUSTOMIZATION

Reports

REAL-TIME

Overview

Locations

Traffic Sources

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AUDIENCE

ACQUISITION

BEHAVIOR

CONVERSIONS

ADMIN

DEVICE CATEGORY: Desktop X

## Overview

Right now

1

active users on site

DESKTOP

100%

## Top Referrals:

Source	Active Users
There is no data for this view.	

## Top Social Traffic:

Source	Active Users
There is no data for this view.	

## Top Keywords:

Keyword	Active Users
There is no data for this view.	

## Pageviews

Per minute

/s

5.0

2.5

-26 min

-21 min

-16 min

-11 min

-6 min

-1 min

-60 sec

-45 sec

-30 sec

-15 sec

Per second

1.5

1

0.5

-1

Create Shortcut BETA  Show all: Pageviews

## Top Active Pages:

Active Page	Active Users
1. /~sp17g04/Home/view/home	1 100.00%

## Top Locations:



## SFSU Congregator's Market Team Contribution Summary

DO Darel Ogbonna |

Today, 9:17 PM

Hey guys,

It was nice working with future rockstars :)...I learned a lot from you guys. Your focus to a project will serve you all well in where ever the future takes you. I wish you all much success in your careers

- generated deployment diagram
- uploaded images to database
- Updated look of final About page
- Set up google analytics
- Set up user accounts for testing SFSU student constraints

Sent from my iPhone

---

M Mark Del Rosario Tompong |

Today, 8:29 PM

Mark Tompong's contributions:

- created UML class diagram for documentation
- handled terms&services page and contact page
- handled back-end update profile management
- speaker for the final presentation

---

KC Kevin Gor-len Chu |

Today, 8:26 PM

To everyone in Team4,

I am glad to have been a part of this team and glad to have had each of you as partners in building this project.

Our combined efforts have produced a well-designed and operational web-app which was proudly displayed at the COSE event and, hopefully, again at the final presentation.

Thank you all for coming together to create something that will not only be remembered by us but also those whom we show it to.

**Kevin Chu**

- Assisted with homepage search and item listings.
  - Created homepage pagination system.
  - Created library to provide and manage login info.
  - Created library for loading navbar.
  - Created Image Controller to display images.
  - Created Notifications system.
  - Created Blob library to manage image uploads for Profiles.
  - Created Reporting system.
  - Assisted with Captcha system.
- 

PG

**Prateek Gupta**

Today, 7:30 PM |

Hey Guys,

It was a great experience working with you on this project. I really appreciate your hard work and contributions in building this website, and I am sure that we all learned a lot in terms of team building, software management and programming.

My contributions are mentioned below

Prateek Gupta

1. CTO of SFSU Congre-Gators market
2. Designed the database model for the project and implemented it on mysql.
3. Contributed in laying out the architecture for the entire project.
4. Implemented string search and sorting feature for the listings.
5. Also developed the listing management(update, remove and edit a listing) for user account and sell item feature.
6. Did blackbox testing and bug fixing.
7. Some documentation work.
8. Made tech decisions.

Thanks and Regards

Prateek Gupta

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SC

**Shane Cota <shanecota@gmail.com>**

Today, 6:28 PM |

Shane Cota's Contributions:

Security  
Back-end encryption  
session management  
form validations

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IT

**Ihsan M Taha**[Reply all](#) |

Today, 6:19 PM

Prateek Gupta; Darel Ogbonna; Shan +2 more

Hey guys, great job on our new website completion. Thank you for contributing your unique strengths to make this project a success as a well and organized team. Below is a list of my individual contributions. Please append yours to this thread for all to keep as a future reference.

Ihsan Taha:

- CEO of SFSU Congregator's Market
- Managed the project schedule
- Assigned members to different tasks according to their strengths
- Monitored progress through scrum meetings and GitHub's Milestones and Issues features
- User experience through use cases
- User interface through mock-ups with Adobe Illustrator
- Quality Assurance through testing all cases on all mentioned browsers
- Usability Testing through target users outside of the team
- Coding Style through regular code review sessions
- Constant communication with the professor and the team

In summary for my technical work, I created mockups for the website from which I implemented their revised versions with HTML, CSS, Javascript, jQuery, PHP, and some GUI tools and frameworks such as Font-Awesome, Bootstrap, and the team's framework of choice, CodeIgniter.

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### **Main Challenges:**

Building SFSU Congre-Gator's Market was a smooth process thankfully with little serious issues. One of the main challenges my team and I faced is the restructuring of software after each milestone when we meet with the client to show the current status of the software and get feedback including modification of the present code. For example, users must not be able to sell an item listing unless they are registered and logged in. However, the client wants to give the users a preview of the site's services. The solution was to customize the sell page to give a warning for non-registered users upon opening the page and after clicking the submit button. The first signal prevents the user from filling out details unnecessarily as that would anger the customer. We learned that the client influences the software in a user-centered-design application. Some of the suggestions made could be in conflict with existing functions, but one has to override the other for the sake of what's best for business.

Another challenge the team faced early in the project is some members were still unfamiliar with the GUI tools and chosen PHP framework. One of our teammates had issues integrating code from the personal account to the group's account with Github. Another two members had problems opening files using the MVC pattern in CodeIgniter. We resolved the issue by setting up a meeting to let the most knowledgeable person on these matters mentor the rest of the team how to use Github and CodeIgniter. To reinforce each member after the meeting the team lead designed cheat sheets to help everyone stay up to speed.