

JUNGLE

SW Engineering
CSC 648/848
Fall 2022
Milestone 1
Team 2

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Executive Summary

Jungle is a platform used to sell San Francisco State University graphic media, eTextbooks, and a few miscellaneous items. SFSU media includes videos, photos, and other visual content. The purpose of our application is to bring convenience to the customer's finger tips. Oftentimes SFSU students and faculty are struggling to find time between their class or work schedules to get certain media. Our application allows customers to easily purchase and get access to SFSU's media as they are needed.

Jungle offers plenty of different features to help SFSU SFSU students and faculty navigate our application with ease and get access to the media they want without any additional work. First of, we provide an online store where SFSU students and faculty and faculty can browse or specifically search for media they need. If the media they are requesting for is not sold on our application, then we would provide media of similar interest to help SFSU students and faculty find what they still might want. Next, we provide a simple filter system that helps sort out specific types of media based on SFSU students and faculty' interests. SFSU students and faculty do not need to spend much time learning how to navigate the application to find a specific product. Rather using the filter tool helps with categorizing the type and style of media they need.

Jungle's main goal for its users is to ease their interaction to purchase SFSU graphic media by using our application. Two of our main features that help the users are expanding the search tool to not just a specific media, but media that falls under the similar category and the filter tool. By utilizing the expanded search tool, users are able to add depth to their search. If the media they search for is not specifically there, the application will state that the media is not available followed by media that could be of similar interest to the user. In addition, the filtering tool helps SFSU students and faculty either narrow down what they are searching for or to find exactly what they are shopping for. This tool will help SFSU students and faculty' time from having to randomly browse the application for what they are looking for.

Jungle's unique feature is its ability to filter the product search by SFSU class and professor names. Oftentimes SFSU students and faculty have a tough time trying to find out which media belongs to which class and professor. Therefore, Jungle helps narrow down SFSU students and faculty' search to find what they need by adding another filter option.

Our team is a group of six members formed in the course CSC 648/848 at San Francisco State University. Our team's focus is to minimize students' time to get access to SFSU media by just a few clicks on our application. Our team is built to handle any crisis and set goals and strategies often to remind ourselves of our project mission.

Personas

1. About John

He is a student who wants to find medias that his classes required.

Wants to use a new SFSU website

Is patient to use WWW apps

Has basic knowledge for using WWW apps



Goals and scenario:

Browse the website, and wants to browse all items

Was attracted by the items that the website displayed.

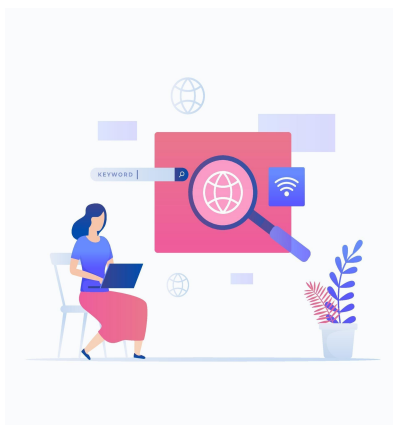
Since he wants to place orders online, he wants to create an account to contact sellers.

2. About Mary

She is a student who wants to sell the media she doesn't need anymore.

Cares feedback on her postings of selling.

Cares about her privacy so doesn't want to give her home address.



Goals and Scenario:

Selling her post.

Needs a secure transaction method that keeps her address private.

If she decides to sell her post, she also will care about her own safety as well as her selling.

3. About Levi

Is familiar with how to use the website to achieve the desired effect

Cares that whether his posting meets the site's specifications since his posting must be reviewed by the admin, he needs to be careful that he is communicating appropriately.



Goals and Scenario:

He wants to sell his items on this website.

If he wants to sell his items more efficiently, He will learn about how to use these WWW apps.

4. About Elise and Alex

Elise is the 1st admin

Alex is the 2nd admin

Elise created an account for Alex.

Alex's account has a temp username and password, so he needs to change them when he logs in, to make this account private.

Alex needs to review posts, and he has the right to deny posts if they don't meet guidelines of the website.

Always navigates to the sites page that outlines posting guidelines to check things out.



Goals and Scenario:

Alex needs an admin account to work on reviewing posts. He also will use the site pages that have posting guidelines to help him checkout the posting guidelines.

Use Cases

1. first time site goer, buys item from post

“John” hears about the new SFSU website and wants to check it out. He navigates to the site with no item in mind and wants to browse. Unfortunately he cannot find a way to browse all items and goes to browse by category. He finds something he wants and goes to message the seller, he is then prompted to create an account in order to proceed. He creates an account and is then returned to the screen of the item he was browsing. He contacts the seller they arrange to meet at a location, and the transaction is carried out.

2. Registered user, sells item

A user of the site “Mary” logs into the site to check if she has any messages in regards to her postings. She sees she does have a message for one of her postings. She replies and the buyer asks for her address, however “she” is not comfortable giving her home address and instead recommends meeting at one of the predetermined locations specified on the website. They agree upon a location and the transaction is carried out. “she then goes back to the site and records that her post has been sold.

3. Unregistered user, creates post

“Levi” wants to create a new posting on the site. He goes to create a post, provides a summary of the item and an asking price. After filling everything out he then goes to post and is prompted to first create an account. After creating an account he is now able to post, Prior to posting he is prompted w/ the guidelines for appropriate posts and then finalizes the post. He receives a notification that his post will be reviewed by an admin and will be posted once approved.

4. Admin, admin responsibilities

“Elise” is an admin for the site, they just hired an additional admin “Alex” and needs to create an admin account for her. Elise navigates to create an admin account option and completes the steps in order to create an account. Elise provides Alex with temp username and password. Alex logs in and changes her username and password. She then starts reviewing posts that require approval prior to posting. She finds a post she believes does not abide by the post guidelines. She navigates to the site's page that outlines posting guidelines. She finds that she is correct and it is not appropriate so she declines the posting, sending a notification to the user that their posting was denied.

Data Glossary

- Unregistered User:
 - can view items
 - can search items
 - create registered account
- Registered User:
 - Create/Manage posts
 - contact other users in regards to posts
 - inherits all properties of unregistered users
- Admin:
 - Required to approve/disapprove registered users posting
 - can create new admin accounts
 - inherits all properties of Registered User
- Posts:
 - contain information regarding the item posted, item description, category, asking price, image of item.
 - Also will have an associated message inbox which will store communication between users in regards to the associated post.
 - Posts will be associated with the user that posted them.
- User registration record:
 - contain information regarding registered user
 - email
 - first/last name

Functional Requirements

- Unregistered User
 - Shall be able to search for posts
 - Shall be able to browse posts
 - Shall be able to perform general browse
 - Shall be able to view post details
 - Shall be able to create registered account
- Registered User
 - Shall inherit properties of unregistered user
 - Shall be able to create posts
 - Shall be able to edit their posts after submitting
 - Shall be able to send and receive post messages
 - Shall be able to remove their own posts
 - Shall be able to see posts they have contacted without having to search
 - Shall be able to message other registered users in regards to their posting
- Admin
 - Shall inherit properties of Registered User
 - Shall be required to approve/disapprove registered users postings
 - Shall be able to create Admin accounts for new Admins

Non- Functional Requirements

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

Competitive Analysis Chart

Feature	Competitor A "Getty Images"	Competitor B "Shutterstock"	Competitor C "Adobe Stock"	Our future product
Text Search	++	+	+	+
Browse	++	+	++	+
Simplicity	+	+	+	++
Sorting by	+	+	++	++
School Related Filtering	-	-	-	++

Simplicity:

The two most frequently stuck websites are "Getty Images" and "Shutterstock." For every category, they provide graphics, videos, music, and editing tools. It leads to a complicated user interface, yet they still manage to design it so that people can search for what they're looking for and pursue the product from the home page at the same time.

For our future website, we'll simplify and compress the home page: We'll have a well-organized categories section based on the classes or majors, and even based on the clubs.

Although the visitor can still browse the products, our main goal is to avoid dumping unnecessary products on the home page. It would be better organized, allowing for a more convenient experience for the user rather than being overrun with items they are not interested in.

Sorting by:

Since we interact with San Francisco State University, it would be beneficial to add a sort based on semesters and years. We would also have different filters based on classes or majors so that people can find their content more easily. This comes in especially handy when looking for specific images for each class.

Browse:

All of these similar websites have great browsing features. They have clear layouts and are organized into clear categories so that people can find what they are looking for much easier. Their images are all clear and organized and we will do this with our product too. We will look to implement new designs and layouts when browsing through our website to keep things looking fresh.

Text Search:

Services like Getty Images has a very good search tool where you can search very specific events and will provide images and content on a very specific search.

School Related Content:

Our product will be completely catered toward San Francisco State University. We will allow all people from SF State to submit items to the media catalog so that there can be content there specifically from the school. Since these other services have mostly stock photos this will be great when people who go to SF State need images or media that comes directly from their own surroundings. Since all these other products/services aren't specifically tailored to schools they will not have the kind of content that will be present on ours.

High-level system architecture and technologies used

SERVER HOST	Google Compute Engine 1vCPU 2 GB RAM
OPERATING SYSTEM	Ubuntu 22.0.4
SERVER DATABASE	MySQL v8.0
WEB SERVER	Apache 2.4.54
SERVER-SIDE LANGUAGE	Javascript v16.17.0
ADDITIONAL TECHNOLOGIES	VScode

Team and roles

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GITHUB MANAGER	Troy Carloni
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Checklist (completed by Team Lead - Nanda)

So far all team members are engaged and attending ZOOM sessions when required	DONE
Team found a time slot to meet outside of the class	DONE
Back end, Front end leads and Github master chosen	DONE
Team ready and able to use the chosen back and front end frameworks and those who need to learn are working on learning and practicing	DONE
Team lead ensured that all team members read the final M1 and agree/understand it before submission	DONE
Github organized as discussed in class (e.g. master branch, development branch, folder for milestone documents etc.)	DONE