

SW Engineering CSC648/848 Fall 2019

“Gator Store”

Section 02

Milestone 2

Team 12

Beibei Jiang - Team Lead / Github Master / Back-end Developer

Email: bjiang1@mail.sfsu.edu

Jinying Ren - Front-end Lead

Jesse Smick - Back-end Lead

Angelo Solitario - Front-end Developer

Melissa Endang - Front-end Developer

Jinghan Cao - Back-end Developer

Submitted Date	10/18/2019
Revised and Frozen Date	10/27/2019

1. Functional Requirements

Priority 1

Unregistered Users:

1. Users shall be able to create an account
2. Users shall be able to view listed items for sale
3. Users shall be able to browse through category
4. Users shall be able to browse through tag
5. Users shall be able to see the remaining amount of items
6. Users shall be able to filter items by price
7. Users shall be able to determine a pick up spot on SFSU campus
8. Users shall be able to have quick access to textbooks by searching by class or teacher

Registered Users:

9. +Unregistered users' functions
10. Users shall be able to create an account
11. Users shall be able to view listed items for sale
12. Users shall be able to browse through category
13. Users shall be able to be redirected to register page if they want to post items for sale
14. Users shall be able to log into the website
15. Users shall be able to have their own dashboard
16. Users are required to post images with items for sale on this website
17. Users shall be able to post items attached with prices for sale on this website
18. Users' dashboard shall be able to:
 - a. View the in-site messages
 - b. View past posted items
 - c. Delete past posted items
19. Users' posted items shall be reviewed by an administrator before it is officially posted on website
20. Users shall be able to send in-site messages among each other

Admins:

21. Administrators shall be able to log in the website
22. Administrators shall be able to have administrator dashboard
23. Administrators shall be able to review the items before they are officially posted
24. Administrators shall be required to approve items before they are officially posted
25. Administrators shall be able to delete items
26. Administrators shall be able to delete users

Priority 2

Registered Users:

1. Users shall be able to browse through tag
2. Users shall be able to post items attached with descriptions for sale on this website
3. Users' dashboard shall be able to modify past posted items
4. Users' posted items shall be reviewed again if they update the information about items

Priority 3

Registered Users:

1. Users shall be able to see the remaining amount of items
2. Users shall be able to post items attached with tags for sale on this website
3. Users shall be able to view approval results from an administrator regarding their proposed items for sale
4. Users shall be able to choose the location within campus to trade off-line

Admins:

5. Administrators shall be able to send messages to sellers if the items are against the policies

2. UI Mockups and Storyboards(high level only)

2.1 Ali the admin goes through the posts to review them one by one to approve or reject them.

Admin Dashboard page

CSC 648 Class Text			
Logo	Gator Store	adminName	▼
NAVBAR			
Showing 1 -10 of 20 results		All posts	Pending
Title	Description	Seller	Date Posted
title1	description1	seller1	date1
title2	description2	seller2	date1
title3	description3	seller3	date1
title4	description4	seller4	date1
title5	description5	seller5	date1
	↓		
	↓		
	↓		
	↓		
< First 1 2 Last >			
Footer			

Admin views one post to review page

CSC 648 Class Text	
Logo	Gator Store adminName ▼
NAVBAR	
<div><div>Title</div><div><div>Images</div><div>◀ ▶</div><div>● ● ● ● ●</div></div><div>Full description of the item...</div><div>Seller Date Posted</div><div>Reject Approve</div></div>	
< Previous Post	Next Post >
Footer	

2.2 Bella went on the website to browse by category. Bella views one item.

Browsing Page

CSC 648 Class Text			
Logo	Gator Store		Sign up Login
NAVBAR	All ▼	Go	Sell
Showing 1-12 of 50 results		Sort by Price: low to high ▼	
<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>
<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>
<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>	<div>\$Price</div> <div>Image</div>
< First 1 2 3 4 5 Last >			
Footer			

Item Page

CSC 648 Class Text	
Logo	Sign up Login
Gator Store	
NAVBAR	
Title	Seller:
<div>◀ Images ▶</div> <div>•••••</div>	<div>Image</div> <div>userName</div> <div>Message</div>
\$Price	
Date Posted	
Full description of the item...	
Footer	

2.3 Sylvester goes to the website to sell items and is then prompted to fill up the form and then sign up.

Sell form

CSC 648 Class Text		
Logo	Gator Store	Sign up Login
NAVBAR		
<div>*Title * - required fields</div> <div></div> <div>*Price</div> <div>\$</div> <div>*Category: Furniture ▼</div> <div>*Description</div> <div>Type description of item here...</div> <div>Pictures: Add an image 3 of 5</div> <div>picture1.jpg</div> <div>picture2.jpg</div> <div>picture3.jpg</div> <div>SUBMIT</div> <div>CANCEL</div>		
Footer		

Sign up Page

CSC 648 Class Text	
Logo	Gator Store
<div>SIGN UP</div> <div>First Name</div> <div></div> <div>Last Name</div> <div></div> <div>Email</div> <div></div> <div>Password</div> <div></div> <div>Confirm Password</div> <div></div> <div><input type="checkbox"/> I agree to terms and conditions</div> <div>CAPTCHA</div> <div>JOIN</div> <div>Already have an account? Login</div>	
Footer	

2.4 Sylvester logs in to view messages.

Login page

Logo

CSC 648 Class Text
Gator Store

Login

Email

Password

CAPTCHA

Login

[Forgot Email?](#)
[Forgot Password?](#)

Don't have an account? [Sign up](#)

Footer

User dashboard

Logo

CSC 648 Class Text
Gator Store

userName ▼

NAVBAR

New Post

All items | All messages

Sort by ▼

User	Message	Date
user1	message1	date1
user2	message2	date2
user3	message3	date3

Footer

3. High level Architecture, Database Organization

DB Tables:

1. **Entities:** Users

Attributes:

- User_Id(primary key)
- Email
- Password
- Role

2. **Entities:** Items

Attributes:

- Item_Id(primary key)
- Title
- Photo
- Price_Link
- Category_Id(foreign key)
- Description
- Tag
- User_Id(foreign key)

3. **Entities:** Category

Attributes:

- Category_Id(primary key)
- Title

4. **Entities:** Message

Attributes:

- Message_Id(primary key)
- Content
- Time_Stamp
- User_Id(foreign key)
- Item_Id(foreign key)

Media storage:

Images will be stored using the file path in the data field “photo” in table items.

Search/filter architecture and implementation:

Our website’s search uses the simple MySQL filter query to access requested content on the database. The query is created by the user who fills out the searching bar then hits the submit button to search for specific items. Items can be filtered based on name, category and other related information(like course number).

In backend, data can be queried by using MySQL LIKE operation. For example:
SELECT Price FROM Items WHERE Category_Id LIKE ‘1%’;

APIs:

No API will be used.

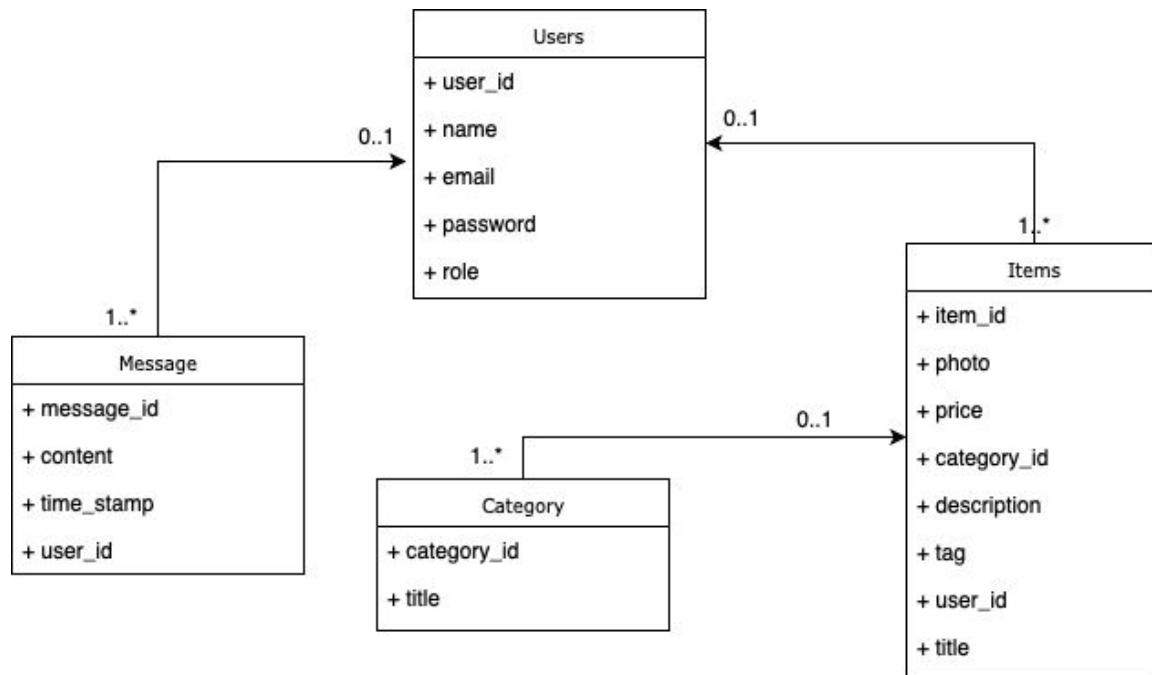
Significant non-trivial algorithm or process:

No significant non-trivial algorithms or process will be used.

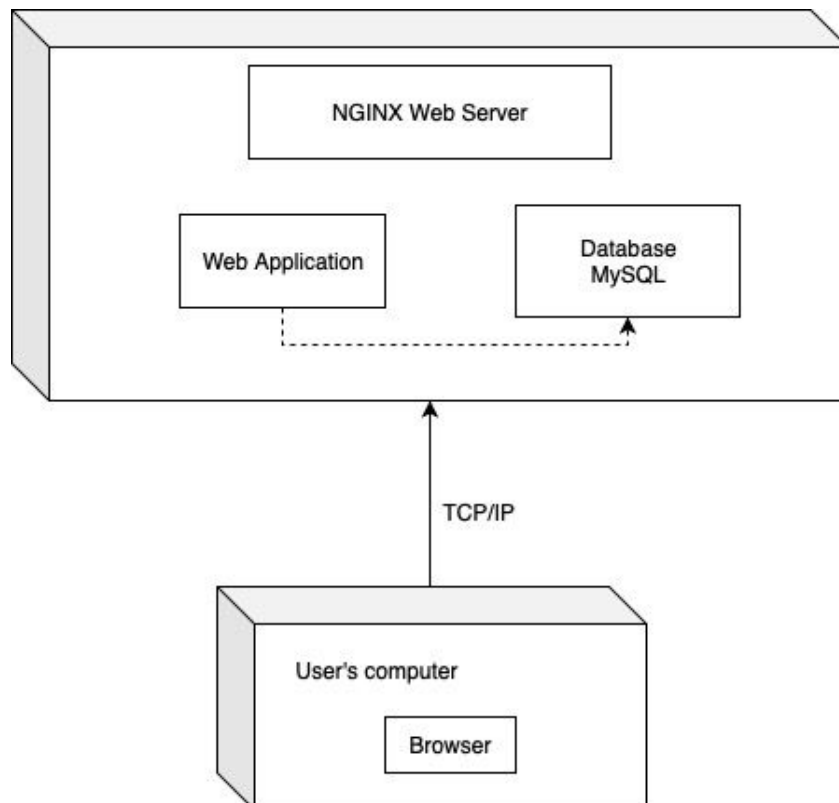
Any changes in Software:

There is no significant change to the software stack at this time.

4. High Level UML Diagrams



Deployment diagram:



5. Identify actual key risks for your project at this time

- Skills risks:
Team members are all well informed with web development concepts and practices needed to complete the project.
- Schedule risks:
Each team member is responsible to keep scope to a minimum viable for making sure they complete tasks on time before the deadline so there are no schedule risks.
- Technical risks:
There are no technical risks that will affect the project because all team members will inform each other when there are any potential risks.
- Teamwork risks:
All team members may be busy with other commitments such as school and work which makes finding a good time to meet outside of class more difficult.
- Legal/content risks:
Content posted such as images shall be approved by Admin before appearing on the website. Those images must be cleared for any copyright issues and need proper licensing before posting.

6. Project management

In milestone 2, we chose two members from back-end to take charge of vertical prototype and the rest of us write documentation. We divided the work according to the workload of each subsection. Milestone 2 documentation has six subsections and among them, the second and fourth part have relatively heavier workload, we assigned two people for each of them and other members are responsible for two subsections respectively.

In future, after M2 is approved, we are planning to start working based on whether it is for frontend or backend. Each team member will be given a specific task to follow. We have started to use Github issues and projects to manage our tasks. After each milestone has been distributed, we will create specific issues and assign them to respective team members. From github project, every team member can easily know the process of every issue, whether it is just started, in processing or finished.