### CSC 648-848 01 Fall 2019

# **Gator Trader**

Team 05

#### Milestone 02:

More Detailed Requirements, Specs, Architecture, UI Mock-Ups & Vertical SW Prototype

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Date	Description	
10 / 9 / 2019	First Draft	
10 / 17 / 2019	First Draft Submission	
10 / 29 / 2019	Draft Revision	

# P1 Requirements

### 1. Functional Requirements

- a. Unregistered User
  - i. Shall be able to browse through listed items for sale (1)
  - ii. Shall be able to view the details of each post (1)
  - iii. Shall be able to become a registered user (1)

#### b. Registered User

- i. Shall be able to do all of unregistered user + (1)
- ii. Shall be able to log in to their account (1)
- iii. Shall be able to log out of their account (1)
- iv. Shall be able to contact a seller (1)
- v. Shall be able to post items for sale (1)
- vi. Shall have access to the registered user dashboard for messaging (1)

#### c. Administrator

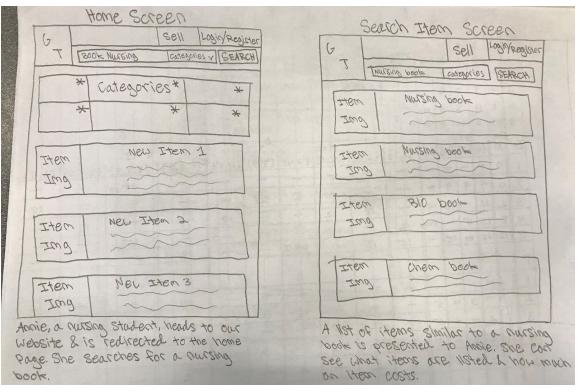
- i. Shall be able to access the database of Gator Trader (1)
- ii. Shall be able to approve / deny potential posts to Gator Trader (1)

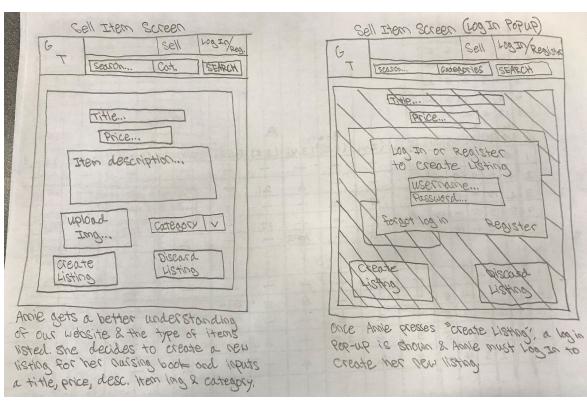
# P2/P3 Requirements

# 2. Functional Requirements

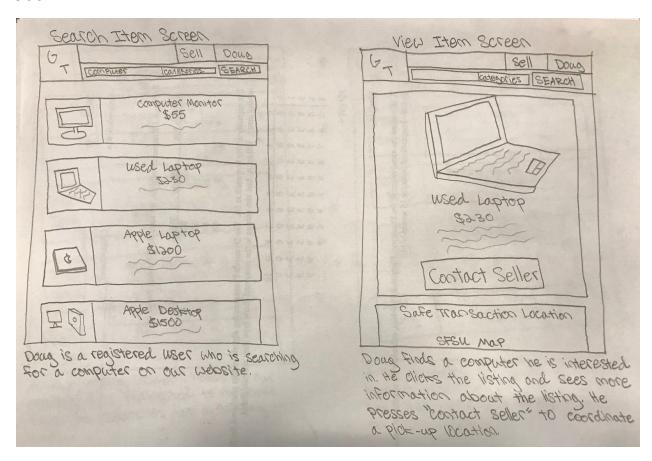
- a. Unregistered User
  - i. Shall be able to sort the posts by price, newest post (2)
- b. Registered User
  - i. Shall have access to registered user dashboard for personal post management (2)
- c. Administrator
  - i. Shall be able to Suspend / Ban accounts for terms violations (3)
  - ii. Shall have access to Google Analytics for Gator Trader (2)

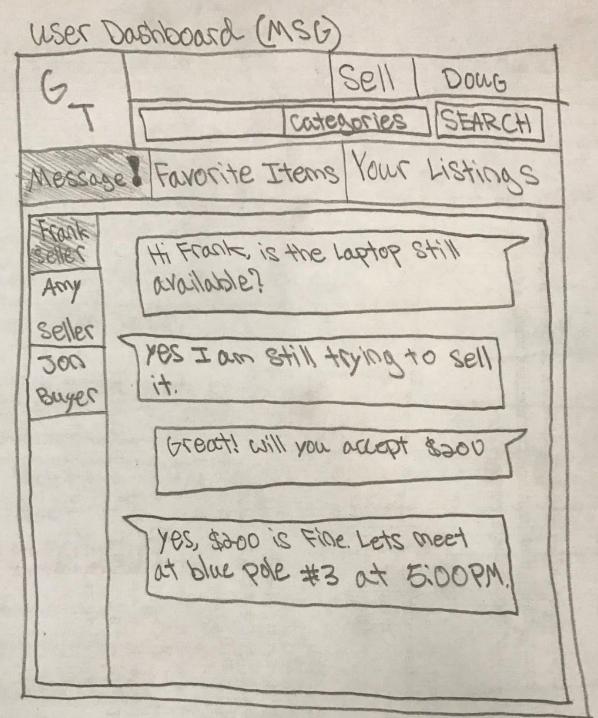
## 3. UI Mockups and Storyboards



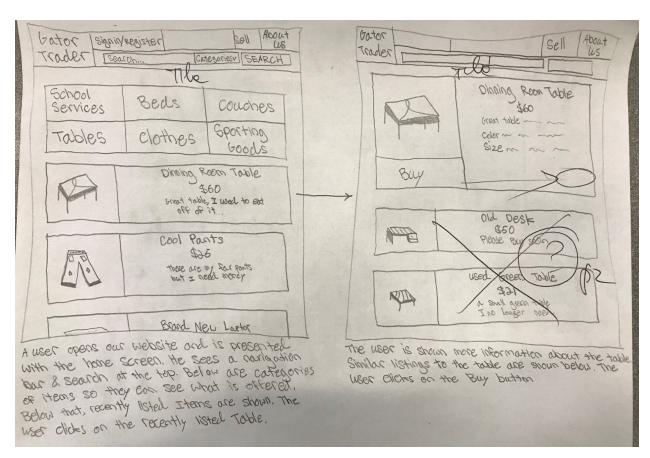


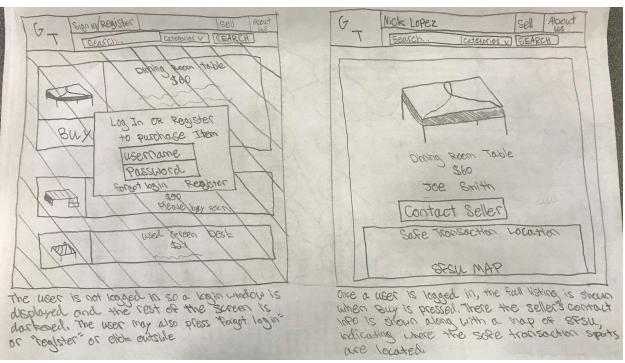
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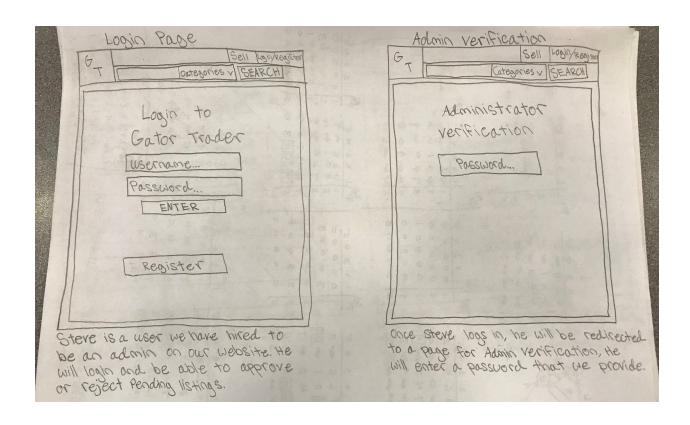


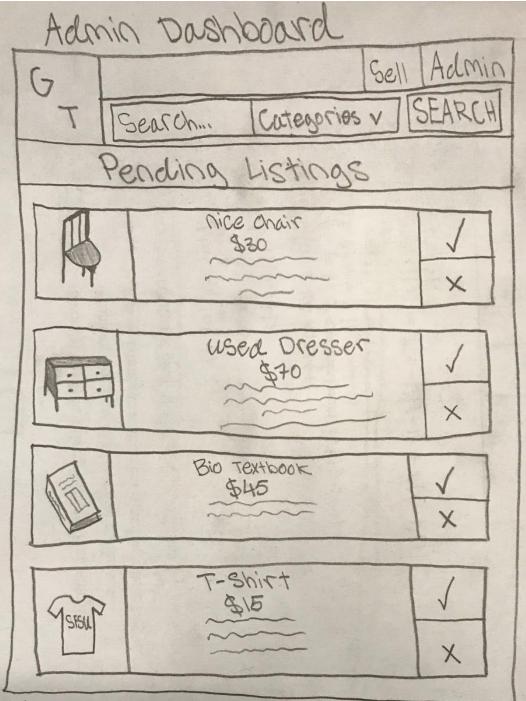


Some time goes by & Doug sees a notification that the seller of the computer has responded. They agree on the price and location for the transaction.









Steve will then be redirected to the admin dashboard where pending linstings will be displayed for the Admin to inspect for inappropriate listings. Once a listing is approved, it will be visable to every user.

# 4. High level Architecture, Database Organization <u>Database organization</u>:

Table	Purpose	Items
User	All registered users (excluding Admins)	Username, password, user ID
Admin	All registered admins	Username, password, admin password
Listing	All posted items for sale	Title, price, owner, approval, desc, category, date
Catalog	All category classifications	Category
Message	All peer-to-peer messages used onsite	Sender, num of msg, newmsg

## Media storage:

 Image and video/audio files will be kept in BLOBs (Binary Large OBjects)

# Search/filter architecture and implementation:

Algorithm/SW for search

- expression LIKE pattern ESCAPE escape\_character
  - o pattern % wildcard for zero or more characters
  - pattern \_ wildcard for single characters

Organizing search items from user, by order of priority

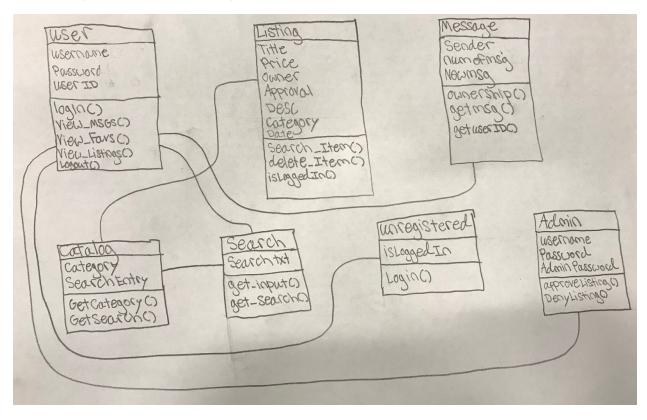
1. Match search string closely

- i. Use category if selected
- ii. Default to title if not selected
- 2. Match search string loosely
  - i. Use category if selected
  - ii. Default to title if not selected
- 3. Autosort matches from (1) and (2) by date
  - i. Provide alternate sort options (price)
- 4. If search string is empty and
  - i. Category is selected, list category listings by date
  - ii. Category is empty, list all listings by date

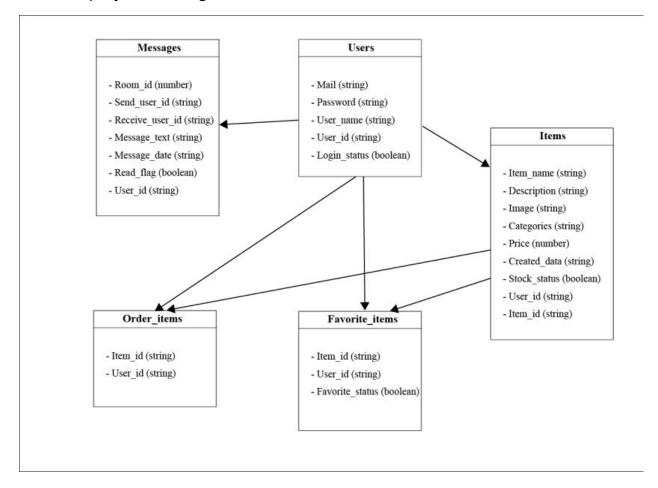
### Modified SW tools/frameworks:

Server Database (directly into AWS EC2 server): mysql Ver
 14.14 Distrib 5.7.27, for Linux (x86 64) using EditLine wrapper

## 5. High Level UML Diagrams



### 6. Deployment Diagram



# 7. Identify actual key risks for your project at this time

#### a. Skills risks

Our team at *Gator Trader* is entirely composed of front-end developers. During the role assigning process, all team members declared themselves as front-end developers and expressed that they do not have previous back-end experience. As we needed a back-end lead, Daniel Gutierrez volunteered and conveyed that he would read and watch tutorials to familiarize himself with the skills, frameworks, and technologies needed for us to succeed. Hayato Waki is also assisting Dann with the back-end. Although we have had some roadblocks with the back-end

(problems with Express in Milestone 0) we have worked hard to correct all issues. We anticipate that we will be able to hurdle past any problems through our team's hard work and diligence.

#### b. Schedule risks

Based on our committed features and available resources, we do expect to finish our application in time. Although we are limited on the back-end side or our team, we believe that we can power through any adversity that comes our way. Our team is well organized and has excellent communication which allows us to complete tasks punctually.

#### c. Technical risks

Our team does not have any technical unknowns to solve at this time.

#### d. Teamwork risks

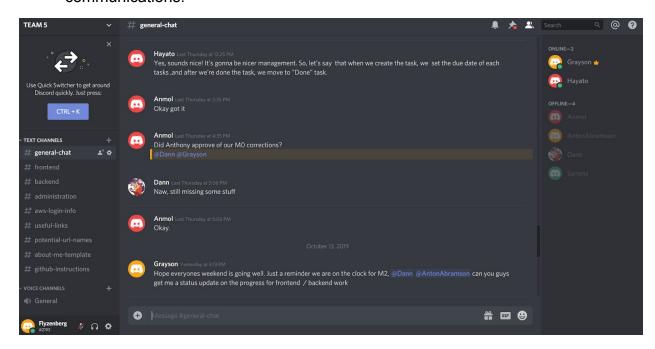
Our team does not have any teamwork risks. All group members have mutual respect for one another and communicate in a timely manner.

#### e. Legal/Content risks

Our team does not currently have any legal/content risks. As our application progresses, we will do our due diligence to obtain any required licenses to avoid copyright infringement.

### 8. Project management

Our team has done a large amount of our group project organization on discord.gg, and we will continue to use the platform for day-to-day communications.



Our team has also began to use <u>trello.com</u> for the start of M2 and upcoming milestones.

