

# **GATOR TRADER**

December 17, 2019

Final Project for SW Engineering Class CSC 648-848 Fall 2019

Team number: 10

URL: <a href="http://gatortrader.ga/">http://gatortrader.ga/</a>

### Team members:

- · Ibraheem Chaudry Team Lead (<u>ichaudry@mail.sfsu.edu</u>)
- · Alexander Beers Back-end Lead
- Lance Santos Front-end Lead
- Tom Sechrist GitHub Master
- Paul Lueng Front-end developer
- · Saleh Zahran Back-end developer



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# **Product summary:**

Gator Trader provides an online e-commerce platform personalized for SF State students. The main functions of the product are as follows:

User features:

shall be able to register for an account.

shall be able to browse through the website.

shall be able to use the search bar to search for items.

shall be able to view all item details. shall be able to fill out a form to post an item for sale.

shall be able to log into the web application. shall be able to post items for sale.

shall be able to contact other registered users about products.

shall be able to receive messages from other registered users.

shall be able to delete their post.

### Milestone documents - M1-M4

The following pages contain milestone 1 through 4 frozen after feedback



# **Product Screenshots:**

### Items



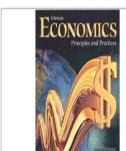
# Recently posted on **Gator Trader**

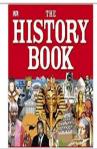
















Sort By



## Search function



Search returned 2 result(s) from 11 total posts.

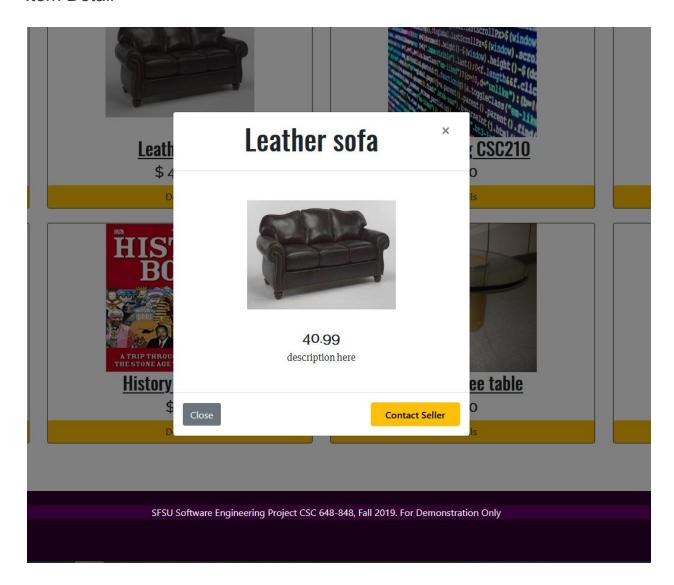




SFSU Software Engineering Project CSC 648-848, Fall 2019. For Demonstration Only

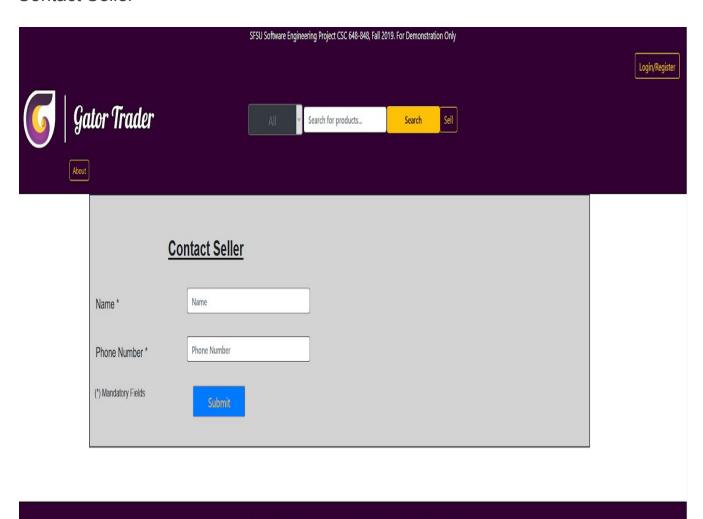


## Item Detail





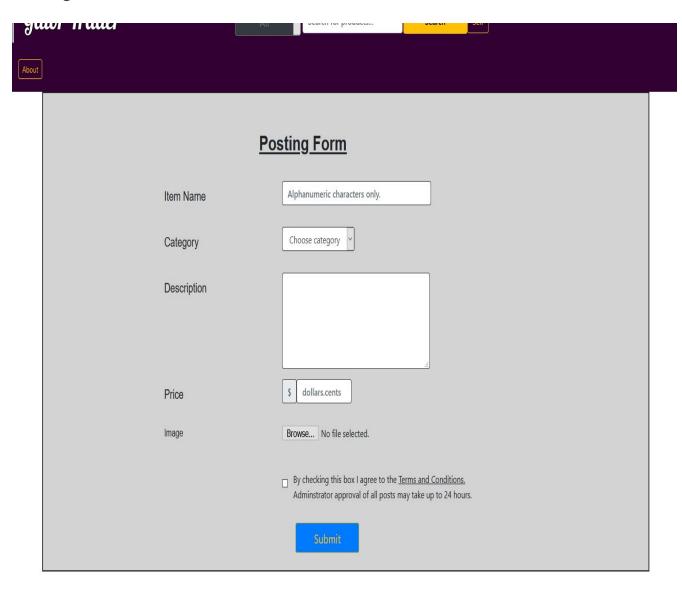
## **Contact Seller**



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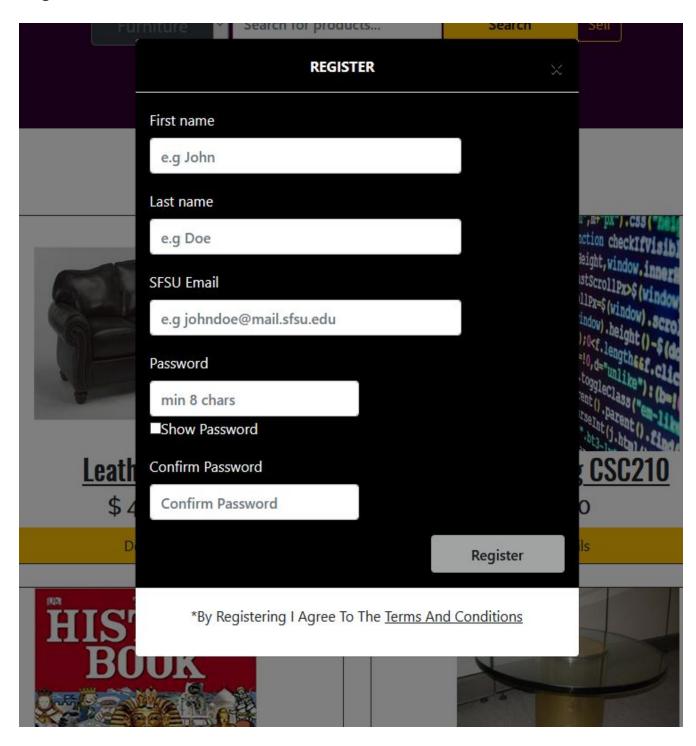


# Posting Form



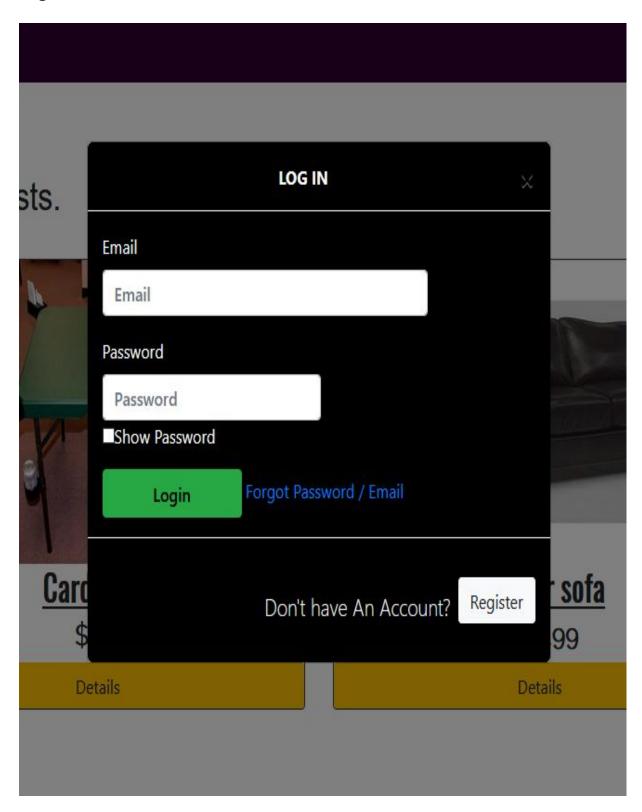


# Register Modal



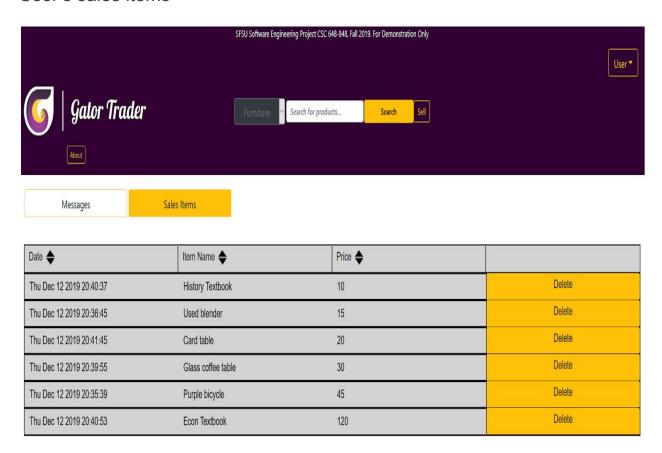


# Log-in Modal





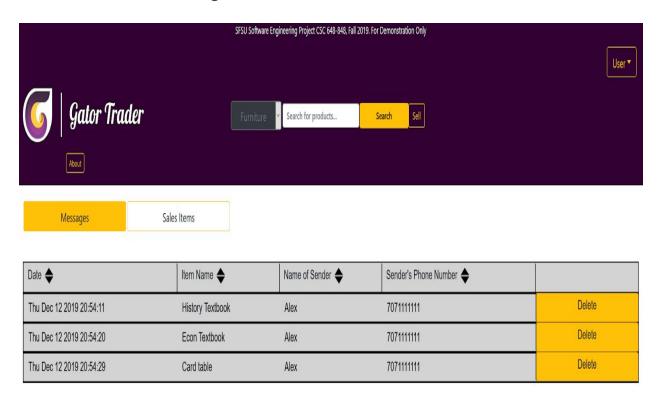
### User's sales items



1
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# User dashboard messages:





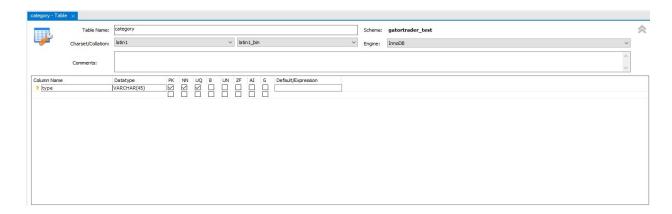


# Screenshots of key DB tables

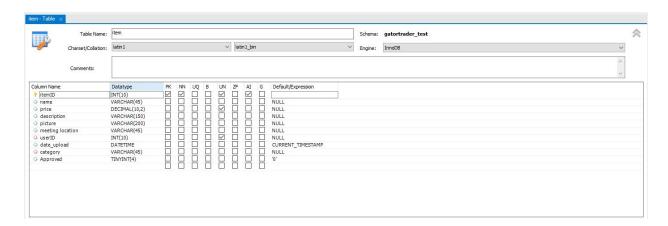
The following tables were used in the project.

\*red diamond denotes foreign key

# Category:

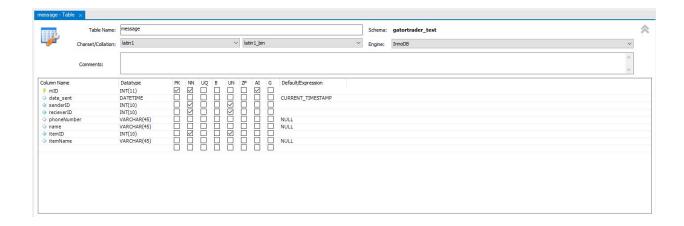


### Item:

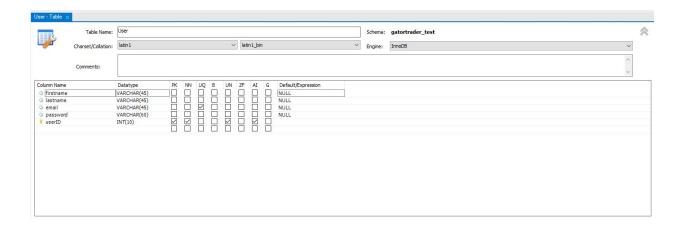




# Message:



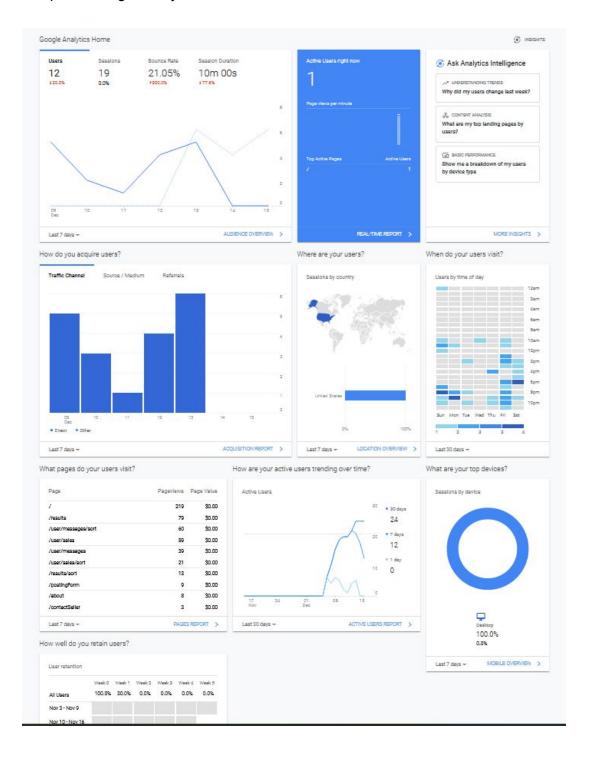
### User:





# Google Analytics plot

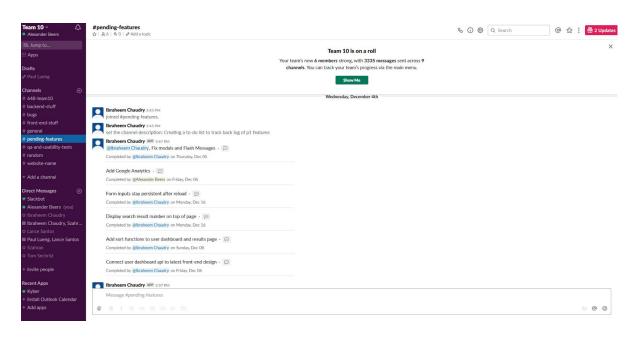
Sample of Google Analytics data from all website data:

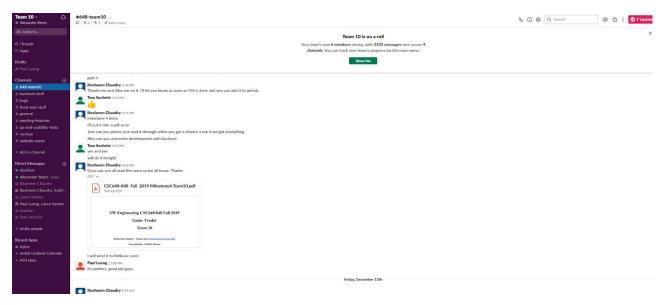




# Task management system

Task management and team communication was done using direct messaging primarily using slack with the addition of the Kyber add-on. Text and email among teammates was also commonly used.

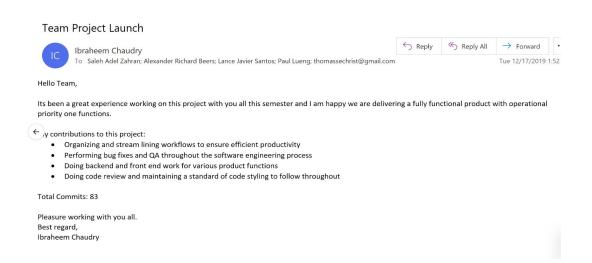






### Team member contributions

## Ibraheem Chaudry



#### **Alexander Beers**



Hey guys, It's been a pleasure working with you all. This has been my first software engineering experience working with a time of this size and I was more than happy with the collaborative effort everyone put in and the ease of communication throughout the project. I think that we ended up with a product that turned out exceptional given our initial intent. As per milestone 5, here are some of the contributions I made to the project.

Primarily I focused on back-end development as the back-end lead for the project:

- -Developed vertical prototype using the software stack team decided on
- -Planned and implemented database schema
- -Coded forms the posting form and contact seller form with all necessary data handling and database querying
- -Contributed to documentation throughout project
- -Helped develop main application file
- -Coded search/browse functions
- -Coded the route handling and middleware for many back-end files
- -Added form validation and some aesthetic changes to front end files such as the user dashboard, posting page, etc
- -Added front-end functionality with data taken from back-end files using the chosen templateing language

Commits / Submissions to Github Team Development Branch: 49 Commits



Paul Lueng

#### Milestone 5 Front-end Engineer Contribution



Paul Lueng <plueng@mail.sfsu.edu>

12:46 AM



To: Ibraheem Chaudry; Saleh Adel Zahran; Thomas Patrick Sechrist; Lance Javier Santos; alexanderbeers15@gmail.com

Dear Team Members,

Building this application has truly taught me a lot about working as a team, and what the software engineering process as a whole is about. It has been my pleasure to have worked with a group of talented individuals. This is an email highlighting some of the contributions that I have made to the team project. As our teams front-end developer, I had most of my work on more of the design, regardless these are some of the highlights of my work:

-Milestone 1 document: Listing of Functional and Nonfunctional Requirements

-Milestone 2 document: Learning and using Figma to design UI Mockups and Storyboards for early design of application.

- -Discussing design aspects of application with Front-end lead
- -Changing design based off of user feedback (Milestone 3)
- Changing the Search Results to appear in desired format (Rows of 4) using Bootstrap
- -Learning to make modals to design and implement popup Login / Register Modals
- -Design and Implementation of Contact Seller Page using Bootstrap
- -Design and Implementation of User Dashboard(Message/Sales Item Tabs) Page using Bootstrap
- -Fixing Navigation Bar to be resizable using Bootstrap

Commits / Submissions to Github Team Development Branch: 18 Commits(645 Lines of Code)

Regards,

Paul Lueng

B 5 % → ···

Front-End Engineer (GatorTrader)

#### Lance Santos



Lance Javier Santos

Tue 12/17/2019 3:21 PM



This project has taught me a lot about teamwork and what it is like to build software throughout its whole lifecycle. Team 10 had great teamwork, everyone knew their role, and worked autonomously towards completing their task.

As Team 10's front-end lead, I worked on designing the website, here's some of the contributions I made:

- Milestone 1, Completed Section 8 of the assignment, Team and Roles.
- · Milestone 2, Created Mockups and storyboards for early design of application using Figma.
- · Worked with Team-lead and Front-end to ensure that our project had a user centered design.
- Designed and implementation the Homepage, Sell page, and navigation bar using bootstrap.
- · Added visual aspects that were requested by the back-end, e.g., sort dropdown.
- Redesigned Sell page based off of user feedback.
- · Designed GatorTrader logo, and color scheme.

Commits / Submissions to Github Team Development Branch: 13 Commits

Lance Santos



### Tom Sechrist

#### Milestone 5



Thomas Patrick Sechrist

 $Ibraheem\ Chaudry;\ Saleh\ Adel\ Zahran;\ alexanderbeers 15 @gmail.com;\ Paul\ Lueng;\ Lance\ Javier\ Santos\ \\$ 

Dear Team Members,

This is an e-mail showcasing what I have contributed to this team project this semester. As github lead, I was primarily focused the structure of our project development upheld, although I did not have to do much as you guys did an amazing job with your work. I could not have asked for a better team

- · Milestone 1, Completed the competitive analysis portion of the assignment.
- Milestone 1, wrote my own 'about' page.
  Milestone 2, created the high level UML diagrams for our project.
- · General help on all documents for the project.
- · Wrote most of the content of Milestone 4 including usability, QA tests and features.
- Did my best to upkeep the projects github including generalizing the stream of development branches, helping some team members stay on track with github usagem and merging important branches.
- Provided general QA testing and feedback on the project at all stages of development.

Commits / Submissions to Github Team Development Branch: 19 Commits

Thomas Sechrist

### Saleh Zahran

#### Team 10



#### Saleh Adel Zahran

Tue 12/17/2019 3:34 PM

Lance Javier Santos; Alexander Richard Beers; Ibraheem Chaudry; Paul Lueng ⊗

You made me believe once again that hard work and coordination can accomplish anything. I'm really proud to be part of this team. Congratulations! This project would never be complete with a bunch of highly talented and inspiring team members like you. My heartiest thanks to each one of you for your unparallel contributions!

Primarily I focused on back-end development:

- -Helped planned and implemented database schema
- -Added login registration features.
- -Wrote database query for multiple function.
- -Helped develop main application file
- -Added flash messages for display users actions
- -Assisted with coding route handling and middleware for many back-end files.
- -Adding contact seller messages to database
- -Assisted in coding and displaying messages onto users dashboard

Commits / Submissions to Github Team Development Branch: 12 Commits



## Post analysis

The technology used to develop the product was fairly new to the majority of the team and there was a learning curve involved but with application of extreme programming skills and heavy sprints delivery of functioning product on time was made possible.

It didn't take long for the team to figure out a system that worked efficiently and every member pitched in ways that made successful software engineering possible without too many backlogs and bottlenecks.

Bug tracking presented itself as a major hurdle in developing this product and it became an increasing challenge to track bugs as the application kept scaling. However, through communication of commits by individual team members, good comments, and intuitive debugging it got easier over time.

One of the most important lessons learned in this project was that working conjointly on completing tasks leads to efficient implementation and everyone learns from each others' mistakes.

#### **Note from Team Lead:**

I am humbled to have lead an amazing team deliver a quality product and am grateful for the positive response received from all members. Each member's commitment to the implementation of the application became pretty clear at the time we started developing and we all trusted each others abilities to get our tasks done and not leave the team hanging.

Problems are always expected when dealing with projects of this scale. The main problems our team faced were mostly software bugs and styling issues that became a headache to figure out and created a backlog of to-do tasks. However, through everyone pitching in and having the team's back those challenges were successfully swept away.

To conclude, I just want to say thank you for allowing me to be the lead of this project and making this whole experience educational and positive.