

Final Project for SW Engineering

Class CSC 648-848 Fall 2019

Team 01 (Section 01)
Aardvark

Ida Hui (Team Lead) - ihui@mail.sfsu.edu
Alan Nguyen (Front-End Lead)
Russell Wong (Back-End Lead)
Ryan Shu (GitHub Master/FullStack)
Sunminder Sandhu (Back-End Developer)
Daisy Sanchez (Front-End Developer)
Jon Fontejon (Back-End Developer)

Milestone 5

ec2-3-136-156-1.us-east-2.compute.amazonaws.com

December 16, 2019

1) Product summary

We are offering our app (Aardvark) as a shopping solution to SFSU students. Our app provides an easy, smooth experience in getting students the things they need in order to have a successful school year. On this platform, students will be able to buy and sell items that fall under the categories of homegoods, supplies, and textbooks. Below are features students can expect during their experience.

1. Home page displays once the user types in our URL in browser
2. Search field allows students to find item(s) they need
3. Result page displays items smoothly
4. Access a dashboard which displays inbox and inventory (togglable)
5. Create post for items they wish to sell
6. Request to buy items they're interested in
7. Sell and manage items no longer need

What really differentiates our product from our competitors is our meetup feature. Student's go straight to the seller to complete their purchase in person. Our app is clear and simple to use with a direct goal of getting items students need, fast.

Website: ec2-3-136-156-1.us-east-2.compute.amazonaws.com

3) Milestone documents – M1-M4

4) Screenshots of actual final product as shown in the demo, one per page

Section title: "Product Screenshots" contains copies of all final screenshots of your final product (1 per page). Black and white is OK

5) Screenshots of key DB tables (1-2 pages)

Show a snapshots of all important DB tables such as user table, item table, category table. Make it easy to read and review

Item

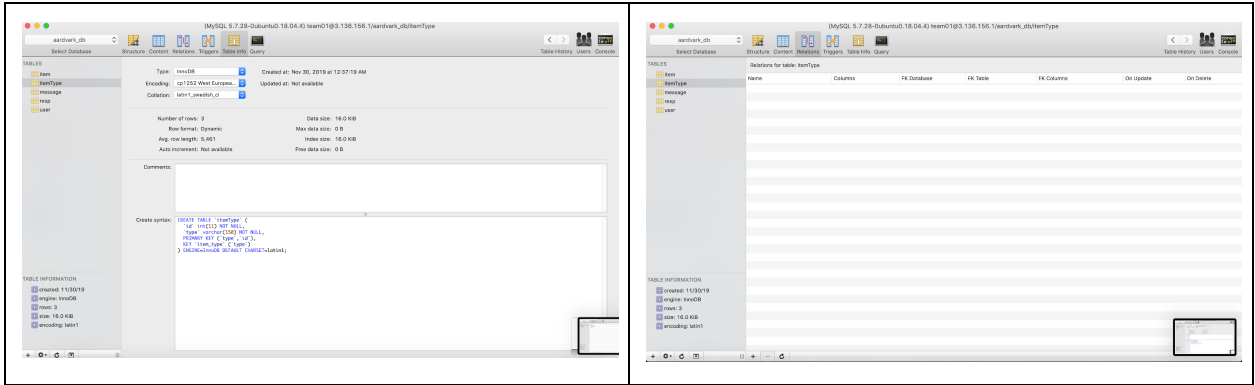
The screenshots show the MySQL database interface for the 'item' table. The first screenshot displays the table structure with columns: id, name, description, price, type, status, percentage, created_at, and updated_at. The second screenshot shows the table's data, including rows for various items like 'The Software Engineering textbook' and 'Computer Organization textbook'. The third screenshot shows the table's relationships, including foreign key constraints. The fourth screenshot shows the table's indexes, including a primary key on 'id' and a unique index on 'user_id'.

id	name	description	price	type	status	percentage	created_at	updated_at
1	The Software Engineering textbook	The Software Engineering textbook	50	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
2	Computer Organization textbook	Computer Organization textbook	40	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
3	Calculator	Basic non-scientific calculator	20	supplies	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
4	Conky Conky	Black & white Conky	120	goods	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
5	Router	Wireless router that is 30cm long	3	supplies	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
6	Chair	Wooden folding chair	30	goods	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
7	History textbook	California History textbook	40	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
8	Pencil Case	New leather pencil case	5	supplies	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
9	Table	Study table	15	goods	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
10	Book	Red book	7	supplies	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
11	Lamp	Black desk lamp	25	goods	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
12	Backpack	Blue and black school bag	45	supplies	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
13	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
14	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
15	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
16	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
17	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
18	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
19	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
20	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
21	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
22	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
23	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
24	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
25	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
26	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
27	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
28	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
29	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
30	CD/DVD	CD/DVD 100 Textbook	60	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00

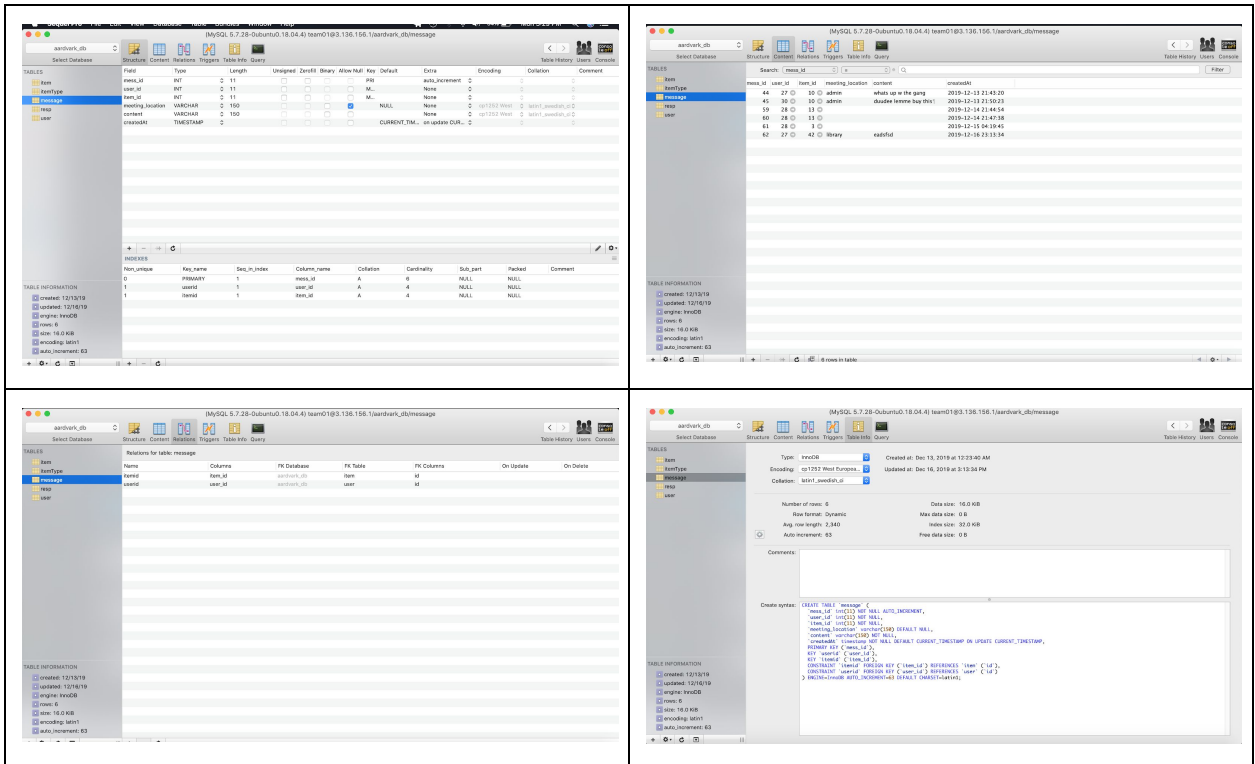
Item Type

The screenshots show the MySQL database interface for the 'item_type' table. The first screenshot displays the table structure with columns: id, name, description, price, type, status, percentage, created_at, and updated_at. The second screenshot shows the table's data, including rows for various item types like 'Home Goods', 'School Supplies', and 'Toys'.

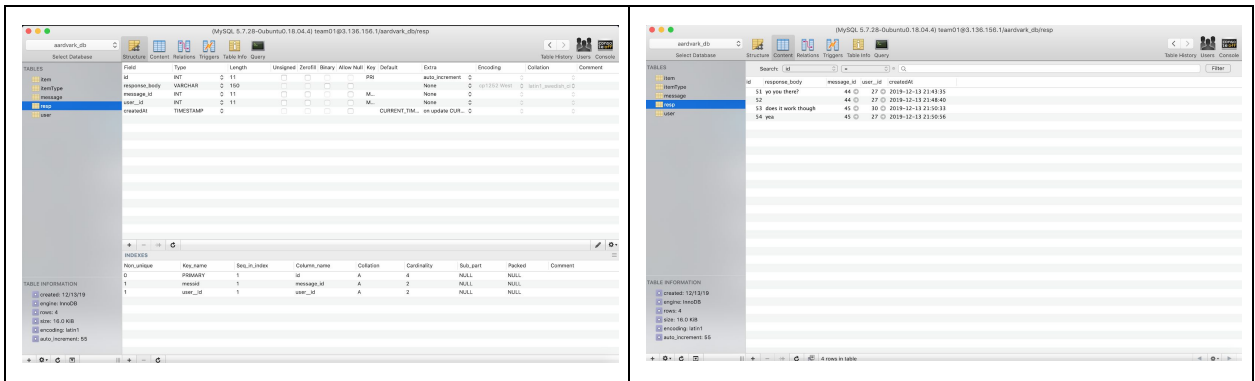
id	name	description	price	type	status	percentage	created_at	updated_at
1	Home Goods	Home Goods	100	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
2	School Supplies	School Supplies	100	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00
3	Toys	Toys	100	text	1	100%	2019-10-22 01:07:22	2019-12-15 06:10:00

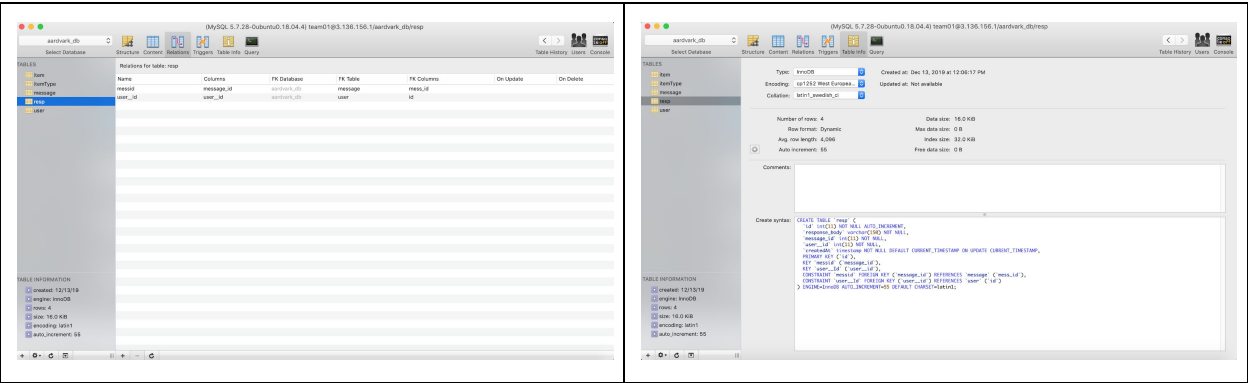


Message



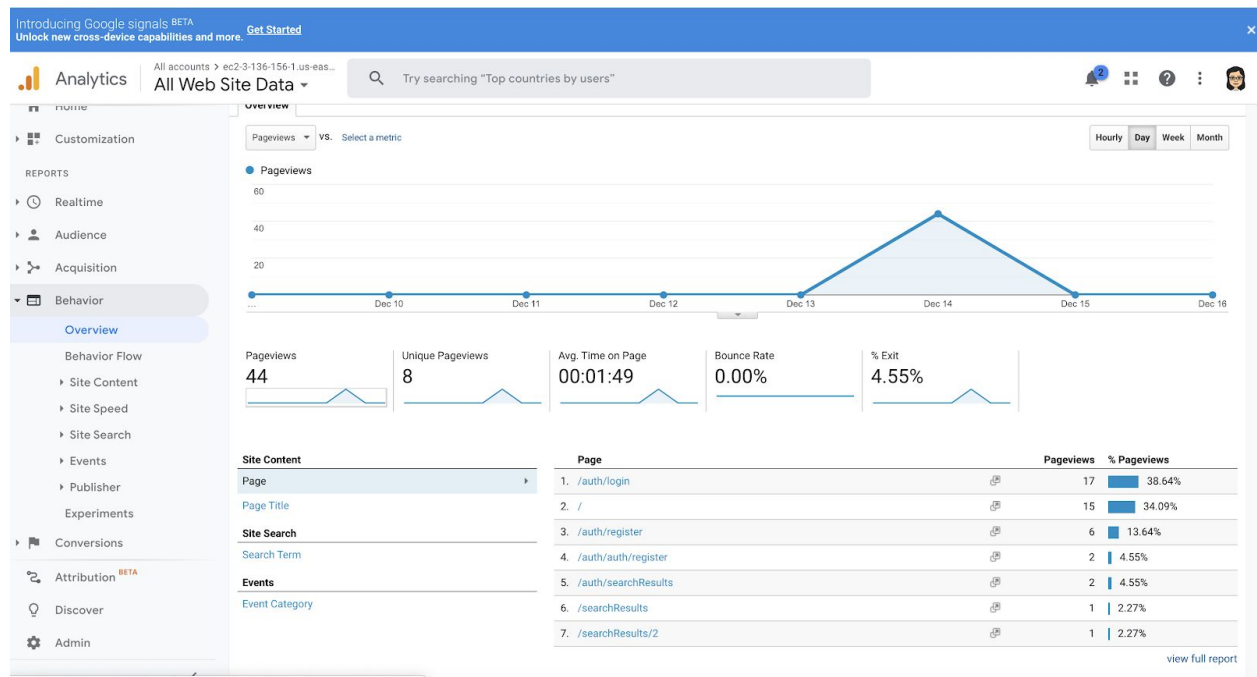
Response





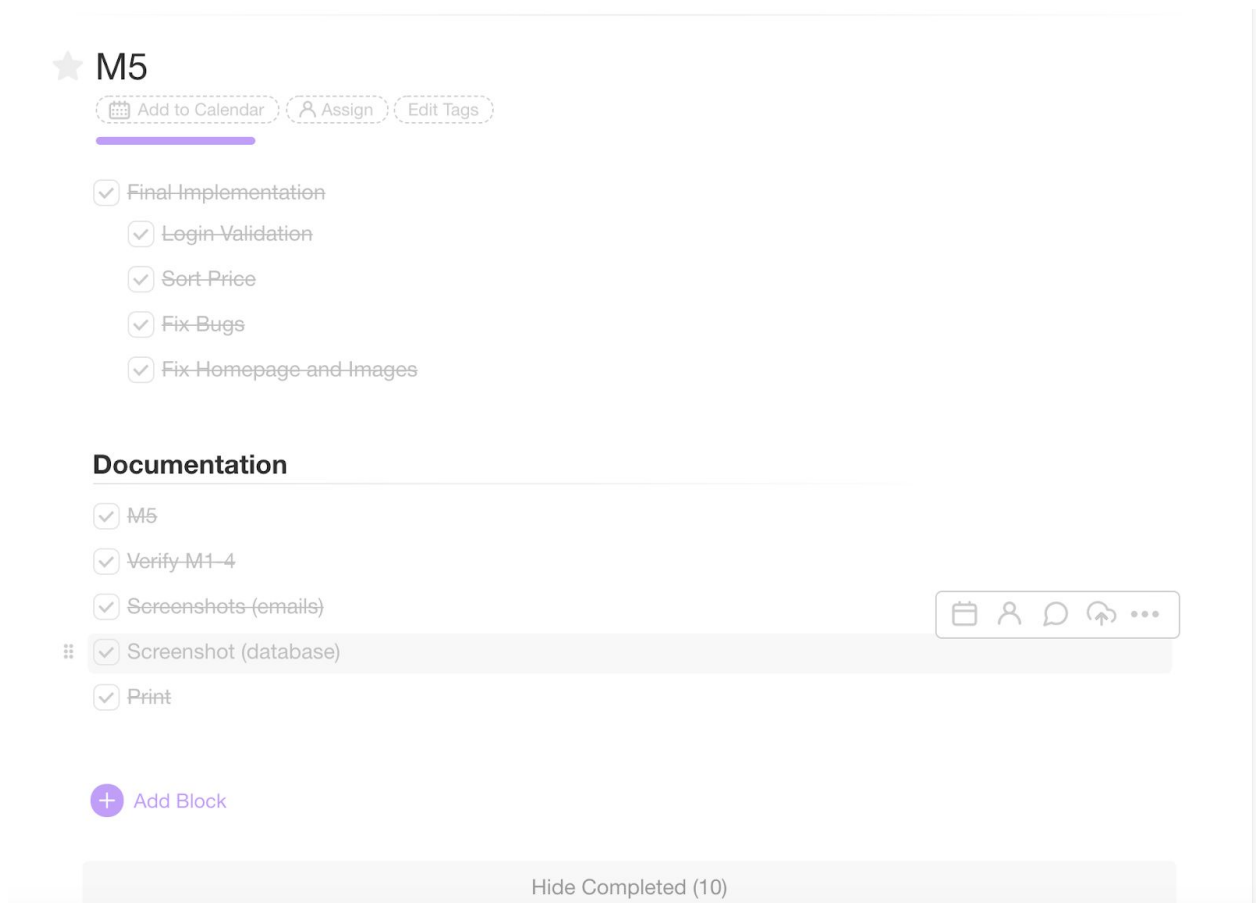
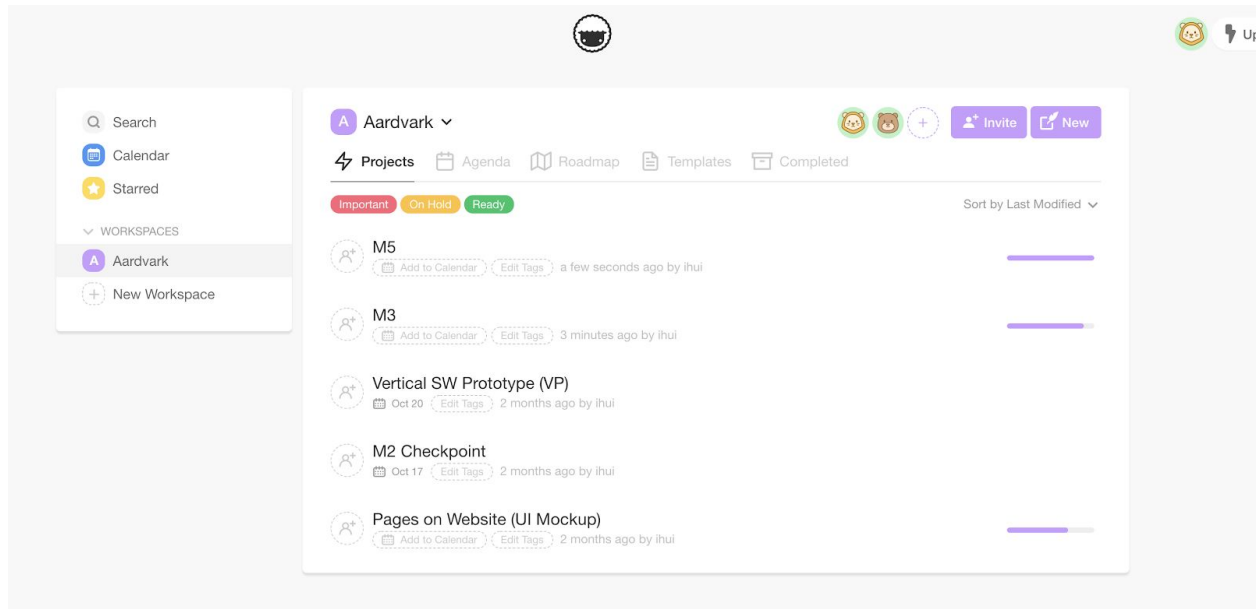
User

6) Google analytics plot for your WWW site (1 page)



7) Screen shot(s) of your task management system (like Trello) showing a snapshot of your project management

Taskade:



8) Team member contributions (emails)

12/15/2019

Mail - Ida Yim Lan Hui - Outlook

CSC 648-848 Section 01 Team 01: Contributions (Thread)

Ida Yim Lan Hui

Sat 12/14/2019 1:21 PM

To: Ryan Lin Shu <rshu@mail.sfsu.edu>; Alan Nguyen <anguyen37@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>

Hi Team,

Please **"respond all"** to this email with your contributions to this project. Thank you for your continuous hard work!

My contribution to the team are as followed:

Front End:

- Create: contact Seller Popup on Product View Page
- Create: contact Company Page
- Create: Post Item and Edit Item Page
- Create: Dashboard Page (contains inbox and inventory implemented by other team members)
- Some styling edits where applicable

Management:

- Oversee progression of project using Taskade
- Send updates to CEO and CTO as needed
- Communicate with leads as needed

Documentation:

- Allocation, review and management of milestones
- Create some UI mockups
- Work on parts that I allocated to myself

Number of Submissions

- 26-28 Commits, 18 Pull Requests

Kind Regards,

Ida Hui

Team Lead, Team01

Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)**Alan Nguyen**

Sat 12/14/2019 6:00 PM

To: Ida Yim Lan Hui <ihui@mail.sfsu.edu>; Ryan Lin Shu <rshu@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>

Hey Team,

My contribution to the team are as followed:

Front-End:

- Create: Homepage and Footer
- Create: layout for all team members About Page
- Create: inbox for Dashboard Page
- Minor styling edits
- Styled: Search Results Page
- Overseeing Front-End team
- Created some UI mockups
- Some code review

Number of Submissions:

- 32 commits

Thanks,
Alan Nguyen
Front-End Lead, Team 01

From: Ida Yim Lan Hui <ihui@mail.sfsu.edu>**Date:** Saturday, December 14, 2019 at 1:21 PM

To: Ryan Lin Shu <rshu@mail.sfsu.edu>, Alan Nguyen <anguyen37@mail.sfsu.edu>, Jonathan Fontejon <jfontejo@mail.sfsu.edu>, Sunminder Sandhu <ssandhu2@mail.sfsu.edu>, "russellwong97@hotmail.com" <russellwong97@hotmail.com>, "daisysanchez202012@gmail.com" <daisysanchez202012@gmail.com>

Subject: CSC 648-848 Section 01 Team 01: Contributions (Thread)

Hi Team,

Please **"respond all"** to this email with your contributions to this project. Thank you for your continuous hard work!

My contribution to the team are as followed:

Front End:

- Create: contact Seller Popup on Product View Page
- Create: contact Company Page
- Create: Post Item and Edit Item Page

Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)**Russell S Wong**

Sat 12/14/2019 9:30 PM

To: Ida Yim Lan Hui <ihui@mail.sfsu.edu>; Alan Nguyen <anguyen37@mail.sfsu.edu>; Ryan Lin Shu <rshu@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>

Hi Team!**My contributions to the team are as followed:****Front-end:**

- Setup EJS as the view engine
- Created the search bar
- Display error messages during login failure & registration failure

Back-end:

- Restructured application to follow the MVC Architecture
- Setup & manage application database
- Implemented the Search feature
- Implemented Local Authentication (Login & Registration)
- Created routes to Dashboard, Search/Item, and Authentication endpoints
- Manage the Backend team

Others:

- Wrote and advised on database-related documentations

Number of Submissions: 36 commits

Sincerely,
Russell Wong
Back-End Lead, Team 01

From: Ida Yim Lan Hui <ihui@mail.sfsu.edu>**Sent:** Saturday, December 14, 2019 6:05 PM

To: Alan Nguyen <anguyen37@mail.sfsu.edu>; Ryan Lin Shu <rshu@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>; Russell S Wong <rwong6@mail.sfsu.edu>

Subject: Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)

From: Alan Nguyen <anguyen37@mail.sfsu.edu>**Sent:** Saturday, December 14, 2019 6:00 PM

To: Ida Yim Lan Hui <ihui@mail.sfsu.edu>; Ryan Lin Shu <rshu@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>

Subject: Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)

Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)**Ryan Lin Shu**

Sat 12/14/2019 9:58 PM

To: Ida Yim Lan Hui <ihui@mail.sfsu.edu>; Alan Nguyen <anguyen37@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>

Hey Team,**My contribution to the team are as followed:****Back-end:**

- Added Blobs for search results page.
- Updated certain deprecated method calls
- Added dashboard functionality to display User's items

Front-end:

- Create: Carousel on landing page
- Create: Responsive Navbar
- Create: Dashboard (User's Items)
- Make Navbar items change upon login
- Helped Convert About Us page to bootstrap

GitHub:

- Initial commit for all team members to set up local servers
- Managed GitHub pull requests
- Always kept working version on Master Branch
- Maintained correct file structure

Documentation:

- Helped work on UI Mock-ups

Other:

- Initial installation of all dependencies on server
- Deployment of app after each update

Number of Submissions:

- 17 Pull Requests, 79 Commits

Thanks all,

Ryan Shu**Student, San Francisco State University**

email: ryan.shu@hotmail.com

Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)**Daisy S** <daisysanchez202012@gmail.com>

Sat 12/14/2019 10:12 PM

To: Ida Yim Lan Hui <ihui@mail.sfsu.edu>**Cc:** Ryan Lin Shu <rshu@mail.sfsu.edu>; Alan Nguyen <anguyen37@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>

My contributions:

- * Created individual about page for milestone 0
- * Created the Personae and Use Cases for milestone 1
- * Created the Storyboards for milestones 2
- * I helped revise and improve UI mockups and Storyboards
- * I worked with the team leader to revise and improve milestone 1 and 2
- * I helped a bit with styling
- * I worked on the login page
- * I worked on the register page
- * I worked on the product page

Number of Submissions

commits: 23

On Sat, Dec 14, 2019 at 1:21 PM Ida Yim Lan Hui <ihui@mail.sfsu.edu> wrote:

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Management:

- Oversee progression of project using Taskade

Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)**Sunminder Sandhu**

Sat 12/14/2019 10:41 PM

To: Fontejon Clan <jonathanfontejon@gmail.com>; Ida Yim Lan Hui <ihui@mail.sfsu.edu>
Cc: Ryan Lin Shu <rshu@mail.sfsu.edu>; Alan Nguyen <anguyen37@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>

Hi Team!**My contributions to the team are as follows:****Back-End:**

- Implemented messaging feature
- Implemented create a new post feature
- Helped with creating tables and managing the database
- Getting images from the user and storing them as Blobs in the database

Number of Submissions: 15 commits

Best,
Sunminder Sandhu
Back-End Developer, Team 01

From: Fontejon Clan <jonathanfontejon@gmail.com>**Sent:** Saturday, December 14, 2019 10:19 PM**To:** Ida Yim Lan Hui <ihui@mail.sfsu.edu>

Cc: Ryan Lin Shu <rshu@mail.sfsu.edu>; Alan Nguyen <anguyen37@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>

Subject: Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)**Hi Team!****My contributions to the team are as followed:****Back-End:**

- Created Favorite Items tab in Dashboard
- Added Add to Favorites button
- Made category tab in search bar more persistent
- Created individual about page for Milestone 0

Documentation:

- Created Personae and Storyboards
- Created User cases
- Created a UML Class Diagram

Submission Count: 28 commits

Best Regards,
Jonathan Fontejon

Re: CSC 648-848 Section 01 Team 01: Contributions (Thread)

Fontejon Clan <jonathanfontejon@gmail.com>

Sat 12/14/2019 10:20 PM

To: Ida Yim Lan Hui <ihui@mail.sfsu.edu>**Cc:** Ryan Lin Shu <rshu@mail.sfsu.edu>; Alan Nguyen <anguyen37@mail.sfsu.edu>; Jonathan Fontejon <jfontejo@mail.sfsu.edu>; Sunminder Sandhu <ssandhu2@mail.sfsu.edu>; russellwong97@hotmail.com <russellwong97@hotmail.com>; daisysanchez202012@gmail.com <daisysanchez202012@gmail.com>**Hi Team!****My contributions to the team are as followed:****Back-End:**

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- Created a UML Class Diagram

Submission Count: 28 commits

Best Regards,
Jonathan Fontejon
Back-End Developer, Team 01

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Documentation:

9) Post analysis – lessons learned (one page max)

a) main challenges

- Scheduling conflicts
- Skills
- Teamwork
- Coordination
- Sense of urgency

b) what would he/she do better next time to address those challenges. Team lead should consult with team members before completing this. Please be honest in identify issues and mistakes, this will help your learning

- Communication throughout the team could've improved, there would be days when no one communicated in our group chat.
- Task management was poorly handled, we didn't delegate work evenly and sometimes there wasn't direction on the front-end side to get the layouts done adequately.
- Coordination throughout the whole process was non-existent, it got better throughout the semester but could've vastly improved
- Sense of urgency and putting everything off until the last minute.