

Final Project for SW Engineering CSC648-848 Fall 2020

Application: SFSU Buy and Sell Website

Name: SFSU CONNECT

Team: 1

Robert Clarkson - team lead - rclarkso@mail.sfsu.edu

Kevin Fung - gitmaster

Cody Camp - backend lead

Taylor Luke - frontend lead

Gerardo Ochoa - developer

Hong Li - developer

<http://ec2-54-151-54-31.us-west-1.compute.amazonaws.com/>

## **Milestone 5**

December 17, 2020

September 23, 2020	First Revision Done
October 13, 2020	Added to first revision
October 20, 2020	Made changes based on CEO feedback
December 8th, 2020	M4 changes done
December 18th, 2020	M5 Changes

# Content

● Product Summary.....	3
● M1.....	4
● M2.....	4
● M3.....	4
● M4.....	4
● Product Screenshots.....	5
● Database Organization.....	17
● Google Analytics.....	22
● Project management.....	33
● Team member self assessment and contributions.....	37

# Product summary

Product name: SFSU Connect

- Any user shall be able to browse through listings
- Any user shall be able to search for listings based on categories and text
- Any user shall be able to view listings details
- Any user shall be able to filter listings by price
- Unregistered users shall be able to create an account
- Registered users shall be able to login
- Registered users shall be able to send a message to listing owner
- Registered users shall be able to create their own listings
- Registered users shall be able to see their own listings
- Registered users shall be able to see messages sent to them
- Admin shall be able to delete users
- Admin shall be able to vet listings
- Admin shall be able to delete listings

Product site: <http://ec2-54-151-54-31.us-west-1.compute.amazonaws.com>

# Milestone documents – M1-M4:

**M1** - In Folder: *Milestones/M5/M1\_M4/*

[https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/blob  
/master/Milestones/M5/M1\\_M4/CSC648-848\\_Fall\\_2020\\_Milestone\\_1\\_Team01.pdf](https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/blob/master/Milestones/M5/M1_M4/CSC648-848_Fall_2020_Milestone_1_Team01.pdf)

**M2** - In Folder: *Milestones/M5/M1\_M4/*

[https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/blob  
/master/Milestones/M5/M1\\_M4/CSC648-848\\_Fall\\_2020\\_Milestone\\_2\\_Team01.pdf](https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/blob/master/Milestones/M5/M1_M4/CSC648-848_Fall_2020_Milestone_2_Team01.pdf)

**M3** - In Folder: *Milestones/M5/M1\_M4/*

[https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/blob  
/master/Milestones/M5/M1\\_M4/CSC648-848\\_Fall\\_2020\\_Milestone\\_3\\_Team01.pdf](https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/blob/master/Milestones/M5/M1_M4/CSC648-848_Fall_2020_Milestone_3_Team01.pdf)

**M4** - In Folder: *Milestones/M5/M1\_M4/*

[https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/blob  
/master/Milestones/M5/M1\\_M4/CSC648-848\\_Fall\\_2020\\_Milestone\\_4\\_Team01.pdf](https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/blob/master/Milestones/M5/M1_M4/CSC648-848_Fall_2020_Milestone_4_Team01.pdf)

# Product Screenshots:

## Home Page:

The screenshot shows the homepage of SFSU Connect. At the top, there is a navigation bar with the text "SFSU Connect" and a user icon. A yellow search bar contains the placeholder text "Type what you are looking for here". To the right of the search bar are links for "Post", "About", and "Login". Below the navigation bar, a large yellow box displays the text "Welcome to SFSU Connect!", "This site is for student to buy and sell their books at a community price", and "66 items have been added in the pass 7 days". Underneath this box, the section "Recent Items" is shown with four thumbnails: a blue blazer, a black and blue zip-up jacket, a book titled "INTRODUCTION TO JAVA PROGRAMMING", and a book titled "FUNDAMENTALS OF HUMAN BIOLOGY & HEALTH".

## Search Results:

SFSU Connect  ELECTRONICS PS5  Post About Login 

Filter Choose your option ▾

**1 item found**

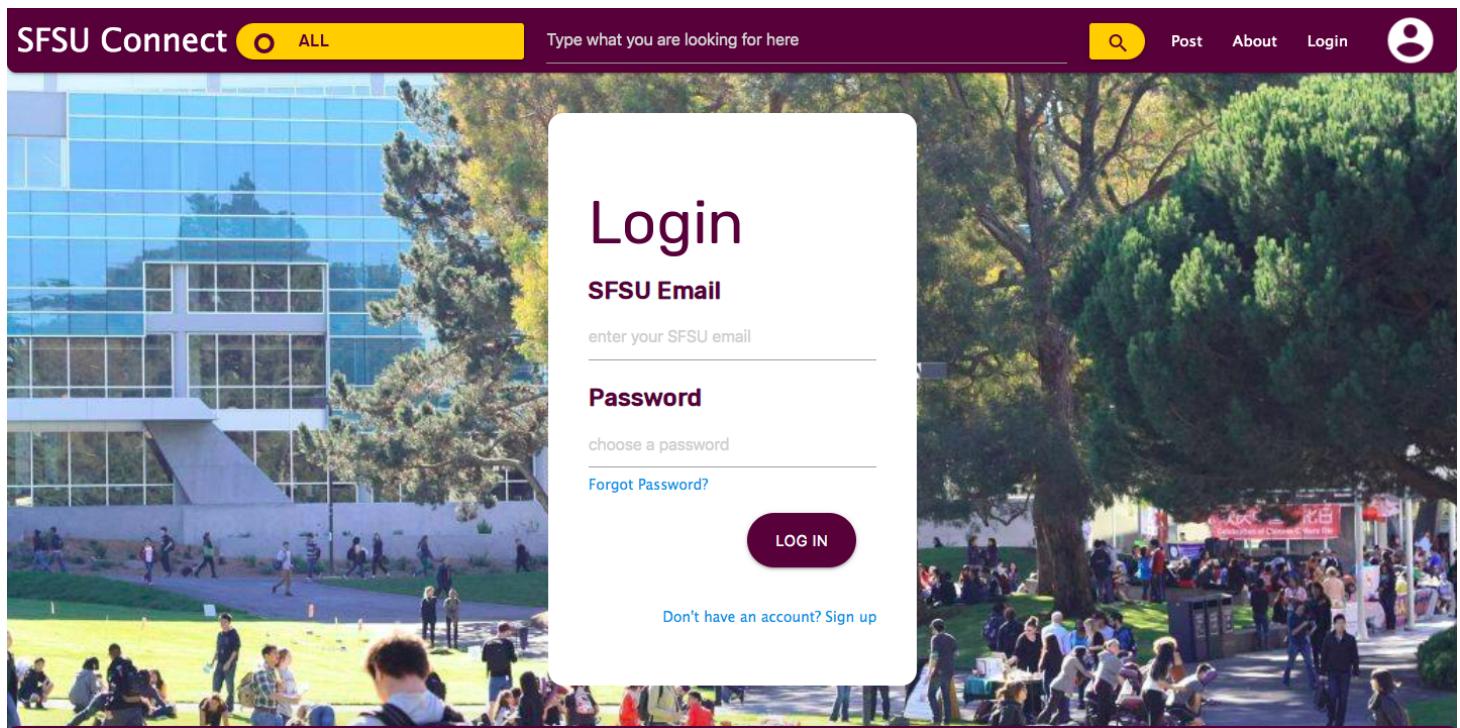


Sony  
Playstation 5  
PS5 Disc  
(Blu-Ray)...

\$600

This is a SFSU Software Development project

## Login Page:



The image shows a screenshot of a login page for "SFSU Connect". The background is a photograph of a college campus with a large glass building, trees, and students walking or sitting on the grass. At the top, there's a yellow header bar with the text "SFSU Connect" and a search bar. Below the header is a dark purple navigation bar with links for "Post", "About", and "Login". The main content area is a white box containing the word "Login" in large letters. Below it are fields for "SFSU Email" and "Password", each with a placeholder text and a "choose a password" link. There's also a "Forgot Password?" link and a "LOG IN" button. At the bottom of the box, there's a link to "Sign up".

## Register Page:

The screenshot shows the SFSU Connect registration form. The background features two images: a modern building at night on the left and a campus scene with people walking at night on the right. The registration form is centered, containing fields for Name, SFSU Email, Password, and Confirm Password. A checkbox for agreeing to Terms and Conditions is present, along with a "REGISTERED" button.

SFSU Connect ALL Type what you are looking for here Post About Login

# Join Us!

**Name**  
enter your name

**SFSU Email**  
enter your SFSU email

**Password**  
choose a password

**Confirm Password**  
confirm your password

I Agree to [Terms and Conditions](#)

REGISTERED

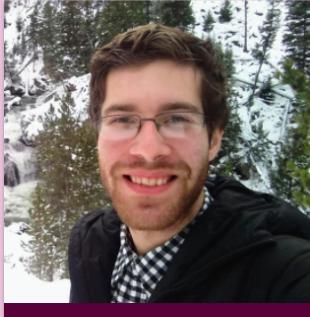
## About Page:

SFSU Connect  ALL Type what you are looking for here  Post About Login 

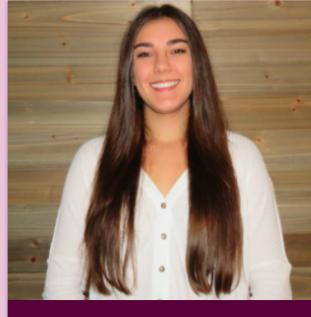
# About Us



**Robert**  
Team Lead



**Cody**  
Backend Lead



**Taylor**  
Frontend Lead

## Individual About Page:

SFSU Connect  ALL Type what you are looking for here  Post About Login 

<  ABOUT US



**Robert Clarkson**

**Team Lead**

A senior at SFSU in Computer Science. I love working on cars old and new! I also have a soft spot for robotics and web development. If you want to be my bestfriend take me out to sushi!



## Browse Products Page:

 <p>Integrated Chinese: Vol. 1 Trad Wkbk \$25.99</p>	 <p>CSC-600 tutor \$25</p>	 <p>connect CARD FINANCIAL &amp; MANAGERIAL ACCOUNTING Information for Decisions Managerial Accounting Connect \$144.65</p>	 <p>CSC-665 tutor \$20</p>
 <p>Lionel The Polar Express Model Train Set \$50</p>	 <p>Switch \$250</p>	 <p>Instant Pot Duo Nova Pressure Cooker ... \$50</p>	 <p>Rubbermaid Storage Containers (60 Pie... \$20.05</p>

## Post Item Page:

SFSU Connect  ALL  Type what you are looking for here  Post About Logout 

# New Post

Item Name (Required):

Choose a Category below. (Required)

Choose a category

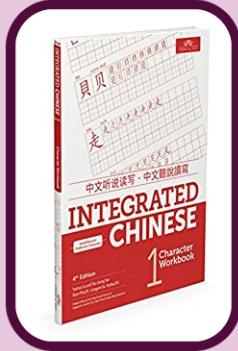
Upload a Image below. (Optional)

No file chosen



## Item Detail Page:

### Integrated Chinese: Vol.1 Trad Wkbk



CHIN / 101 / 01

Author  
Liu

ISBN: 9781622911318

Edition: 4th

Publisher: Cheng & Tsui Company

Integrated Chinese is an acclaimed Mandarin Chinese language course that delivers a cohesive system of print and digital resources for highly effective teaching and learning. First published in 1997 and now in its 4th Edition, Integrated Chinese has become the leading Chinese language textbook series in the United States and beyond.

## Account Page:

SFSU Connect  ALL Type what you are looking for here  Post About Logout 

# My Account

[MANAGE ITEMS](#)

[INBOX](#)

**My Information**

[EDIT PASSWORD](#) 

Name: Robert Clarkson  
Email: rclarkso@mail.sfsu.edu  
Created: 2020-11-19T20:07:42.000Z

No file chosen



## Inbox Page:

SFSU Connect  ALL Type what you are looking for here  Post About Logout 

# Inbox

DATE	FROM	SUBJECT	MESSAGE
Fri Dec 18 2020 02:19:03 GMT+0000 (Coordinated Universal Time)	taylor	FUJI FEATHER 49 CM FOR SALE	Hello, I am interested in purchasing the bike.
Fri Dec 18 2020 02:19:39 GMT+0000 (Coordinated Universal Time)	taylor	Mint, (New) 2020 Gibson SG Modern - Trans Ebony	Interested in the guitar, would you be willing to drop the price?
Fri Dec 18 2020 02:20:12 GMT+0000 (Coordinated Universal Time)	taylor	ST models DG-1000 powered sail rc plane	The plane looks cool, I will buy.

This is a SFSU Software Development project  
 Created by CSC648-03-FA20-Team01

## Manage Item Page:

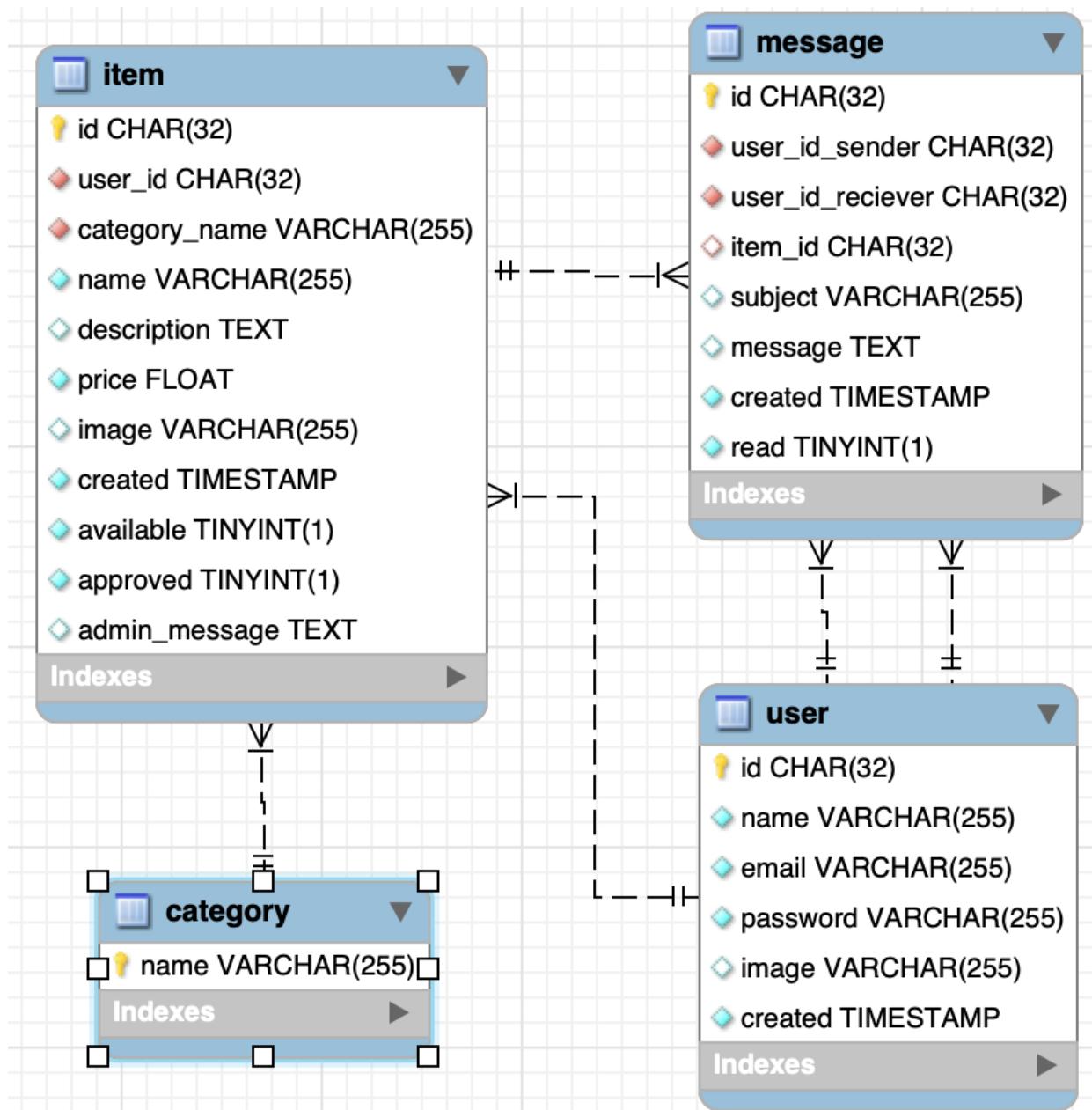
SFSU Connect ALL Type what you are looking for here Post About Logout

### My Products

Calculus: Early Transcendentals, 3rd ... unapproved	Graphite Pencils unapproved	Coffee Maker unapproved	Beats wireless earbuds unapproved
PS4 Final Fantasy VII Remake	Stack of white cups	CSC 210	Robot hand

# Database Organization:

EER:



## User Table:

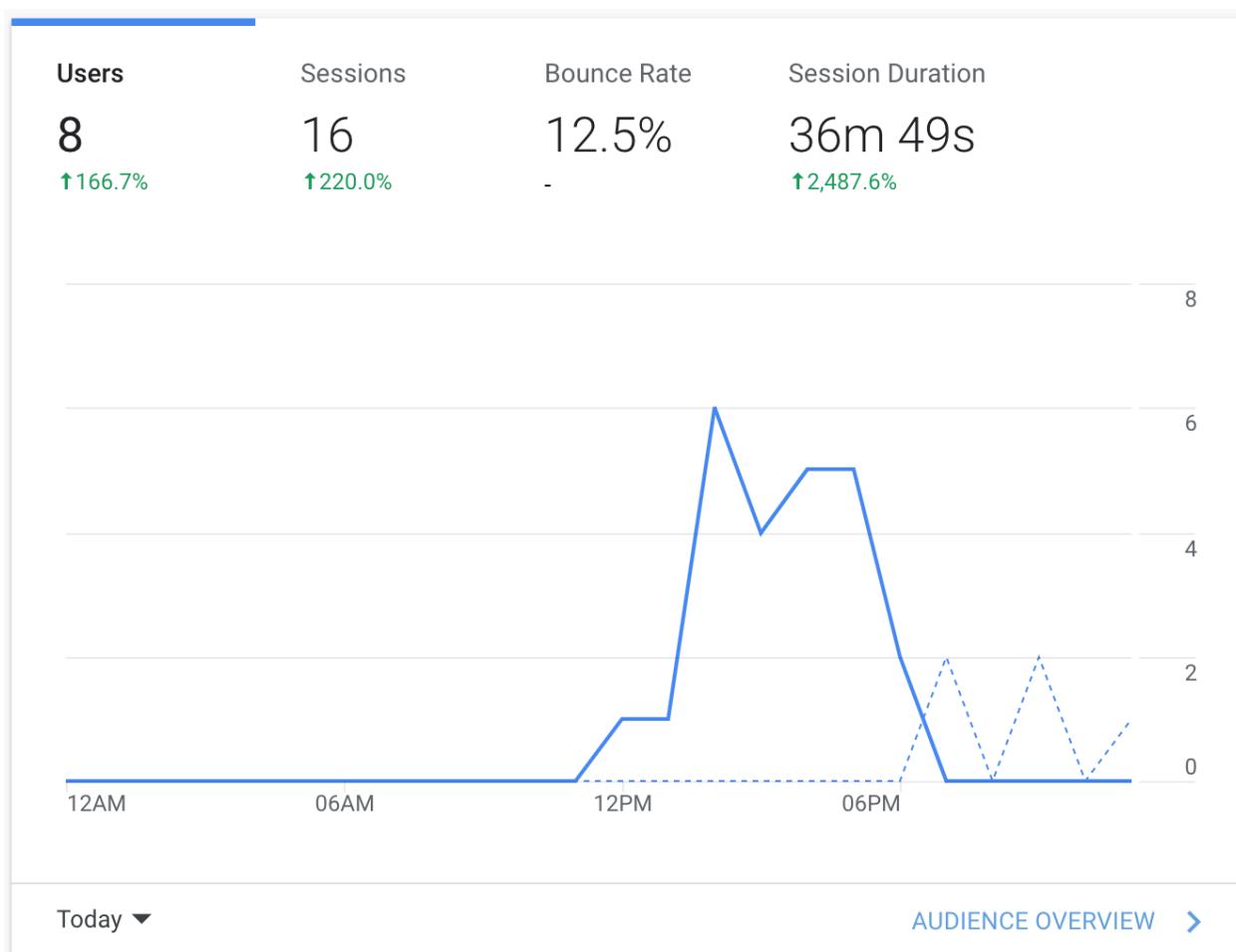
## Item Table:

	<b>id</b>	<b>user_id</b>	<b>category_na...</b>	<b>name</b>	<b>description</b>	<b>price</b>	<b>image</b>	<b>created</b>	<b>availa...</b>	<b>approved</b>	<b>admin_mess...</b>
▶	000d6f5540c311e...	217bcbfb367211...	Electronics	Iclicker 2	Iclicker 2 required...	30	dc936d3e0351bf7de37450d2899b4dd...	2020-12-17 23:53:...	1	1	NULL
	0e6e5b2140b11e...	71e722142f6f11e...	Toy & Games	What Do You...	What's Inside: Ea...	29.99	6dc4c57c9dd6e1a53745251d2805363...	2020-12-17 23:24:...	1	1	NULL
	13d0111e0bb11e...	58bd54db2ebbb11...	Books	Calculus: Ear...	Calculus: Early Tr...	245	34e12b98ee8eff3d5dad2e6b65138976...	2020-12-17 22:56:...	1	1	NULL
	170a2aec40c011e...	71e722142f6f11e...	Miscellaneous	Bedside Shel...	LARGE BEDSIDE...	20.99	3604f5d2fb05f597e19b2fb4d3127.jp...	2020-12-17 23:32:...	1	1	NULL
	1851222340cc11e...	eb3393752c7d11...	Home & Kitc...	Brand New K...	Brand New Kitche...	250	12adb87065a150422ac04721520fcfd...	2020-12-18 00:58:...	1	1	NULL
	1b4f478240bd11e...	71e722142f6f11e...	Clothes	JERZEES W...	San Francisco St...	27.99	2bbf70218837011af666112c552c6c30...	2020-12-17 23:10:...	1	1	NULL
	20c5807740ce11e...	eb3393752c7d11...	Toys & Games	Monopoly	The classic Mono...	10	1476f621e62d58a303d1600c04bc740...	2020-12-18 01:12:...	1	1	NULL
	22dd035140b111e...	e1e77d992aa211...	Home & Kitc...	Set of 6 New...	Beautiful wine gla...	25	2ba51c7901947ba7ece0402b5817760...	2020-12-17 21:45:...	1	1	NULL
	2ad5ed2440c511e...	217bcbfb367211...	Tutoring	CSC 665 tutor	Got through this c...	20	585955782c459b6173440371597c212...	2020-12-18 00:08:...	1	1	NULL
	2dec907c40c411e...	217bcbfb367211...	Toys & Games	Switch	3 Play Styles: TV...	250	92a0e81875f0f76171efc8752723095f.j...	2020-12-18 00:01:...	1	1	NULL
	2fdb3d7740c011e...	217bcbfb367211...	Books	Artificial Intell...	CSC 665	100	c20d2987a3786a8b63750bec9c87b4...	2020-12-17 23:32:...	1	1	NULL
	3490734640ae11e...	e1e77d992aa211...	Art	Beautiful Vint...	Frame is 28 by 23...	200	48cd7185b83d7622ef87f03555eb2307...	2020-12-17 21:24:11	1	1	NULL
	381ea20c40b211e...	e1e77d992aa211...	Miscellaneous	Mint, (New) 2...	For sale, this bea...	1500	9165de1f49df54598aa4f7b24ac51e69...	2020-12-17 21:52:...	1	1	NULL
	3c1a73ff40c911eb...	eb3393752c7d11...	Books	Fund of Hum...	BiOL 100	55	866313d3e322ab122c7cf20d56282d...	2020-12-18 00:37:...	1	1	NULL
	3d3b8e8e40d011e...	eb3393752c7d11...	Tutoring	Bio 100 Tutor...	I have recently pa...	10	3438baaf856783492ff32a454e6db...	2020-12-18 01:27:...	1	1	NULL
	40e5c54a40cb11e...	eb3393752c7d11...	Electronics	Logitech Mou...	Wired connection	30	bed5a0b9461a6c5d94409590b0d780f...	2020-12-18 00:52:...	1	1	NULL
	4135cd3d40bd11e...	58bd54db2ebbb11...	Art	Graphite Pen...	Brought this extra...	10	efc868267989417e2023d1987566f542...	2020-12-17 23:11:55	1	1	NULL
	46380b9b40b11e...	58bd54db2ebbb11...	Home & Kitc...	Coffee Maker	Coffee making, us...	50	fdbf2ea0e66b0c0595e0d2a13dce92ad...	2020-12-17 23:26:...	1	1	NULL
	49d51c3040be11e...	58bd54db2ebbb11...	Electronics	Beats wireless...	Wireless earbuds...	160	d621094d55fc55a5c699306498f7204e...	2020-12-17 23:19:...	1	1	NULL
	50caa46c40b11e...	e1e77d992aa211...	Home & Kitc...	Tiger Electro...	New Tiger electro...	80	9e1f26052e7349f25bb0276bceb0b12...	2020-12-17 21:46:...	1	1	NULL
	53626e7e40ca11e...	eb3393752c7d11...	Clothes	Nike Dry Fit j...	Like new	10	b8cc2253b256b9beef3f29e123c4ffce.j...	2020-12-18 00:45:...	1	1	NULL

## **Message Table:**

## Category Table:

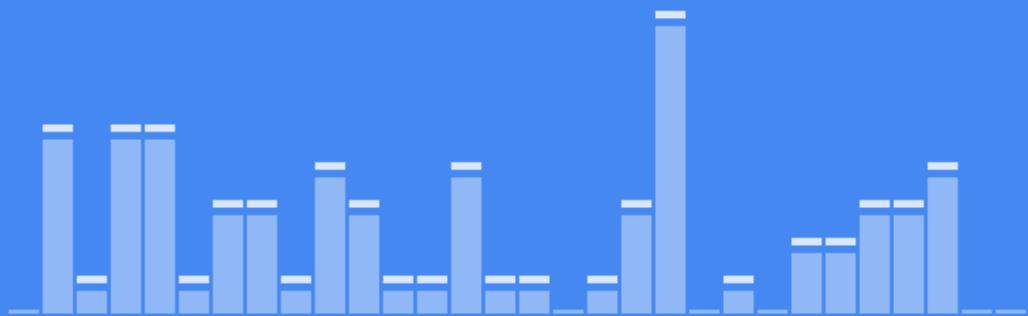
# Google analytics plot for your WWW site:



Active Users right now

2

Page views per minute



Top Active Pages

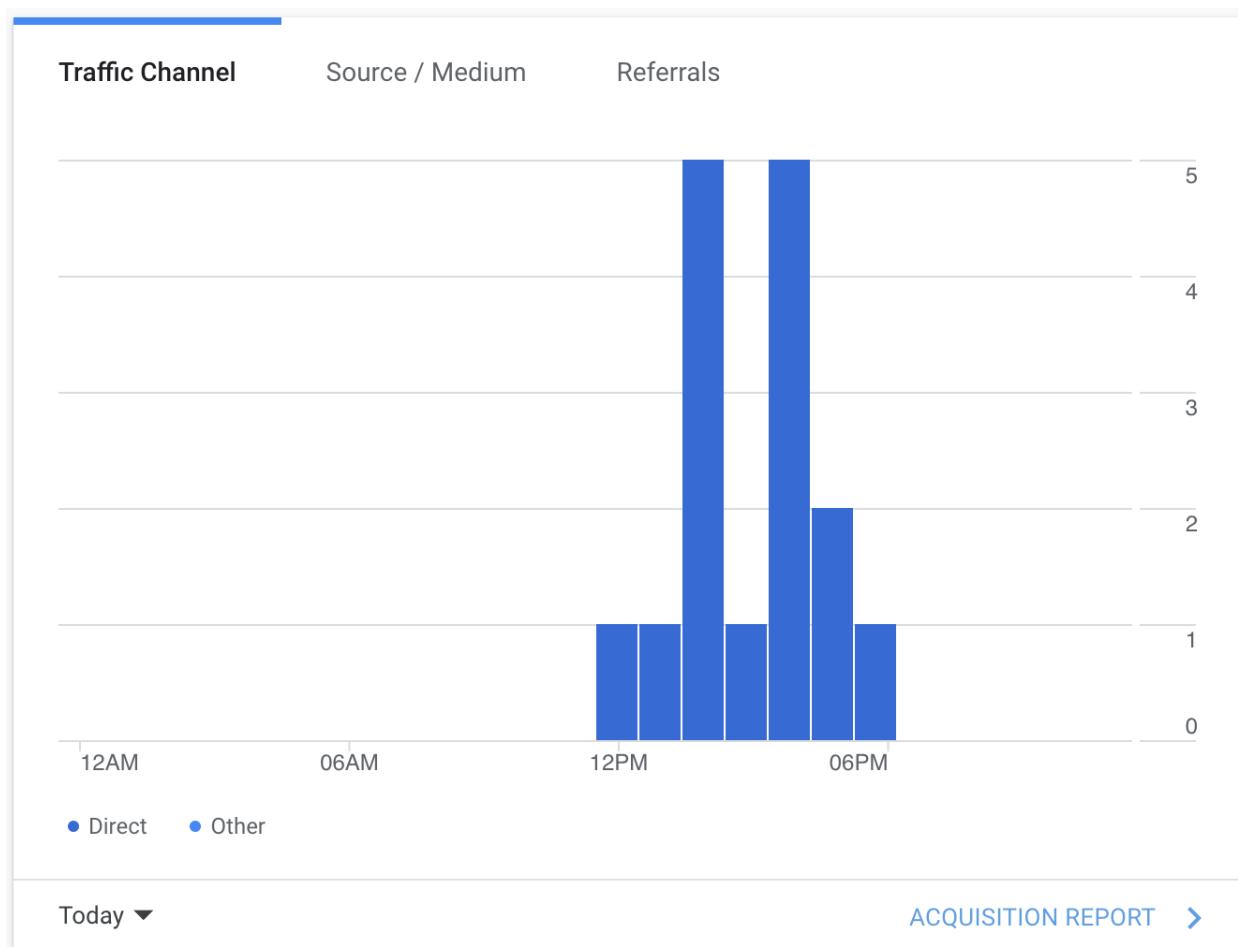
/account

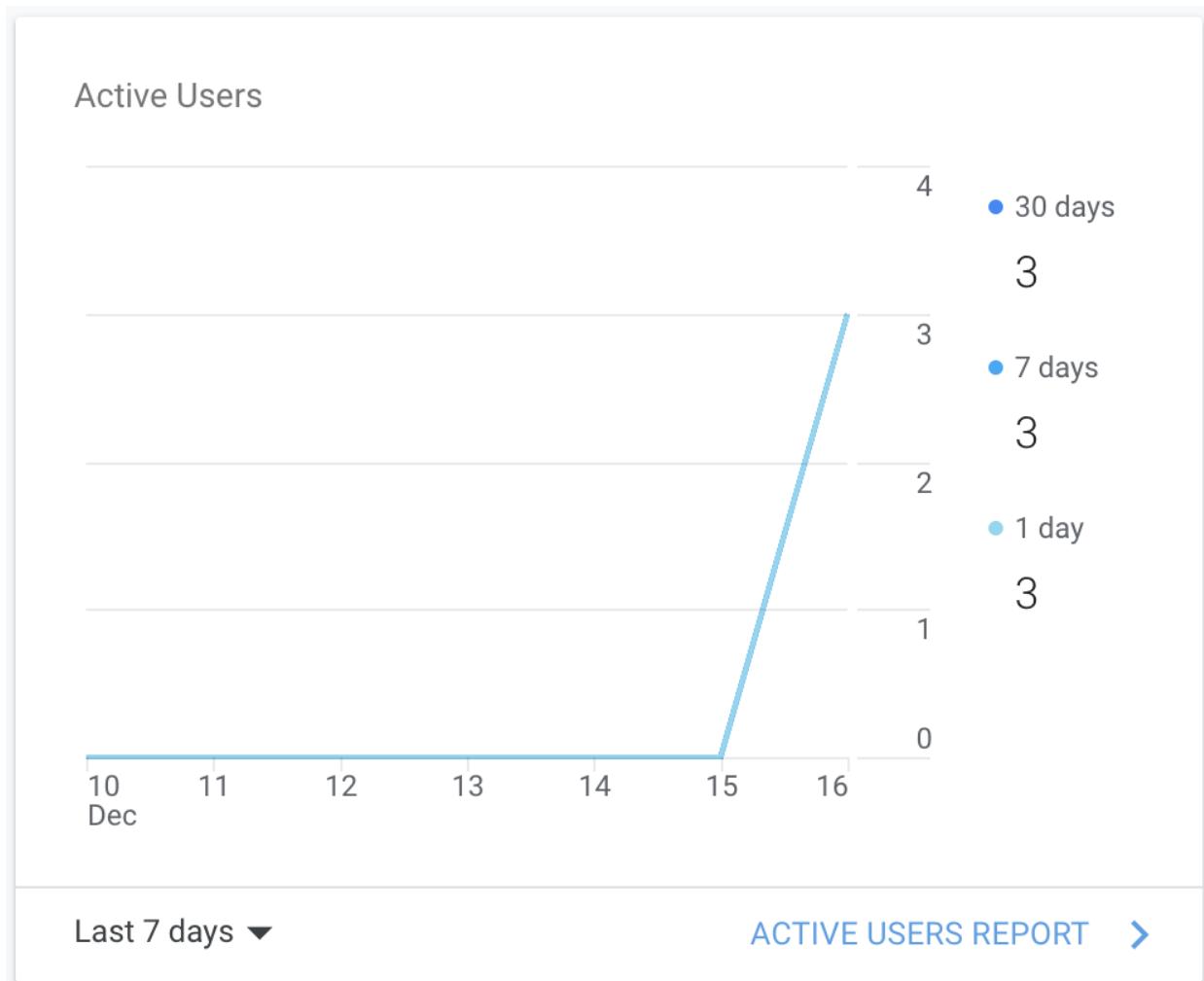
Active Users

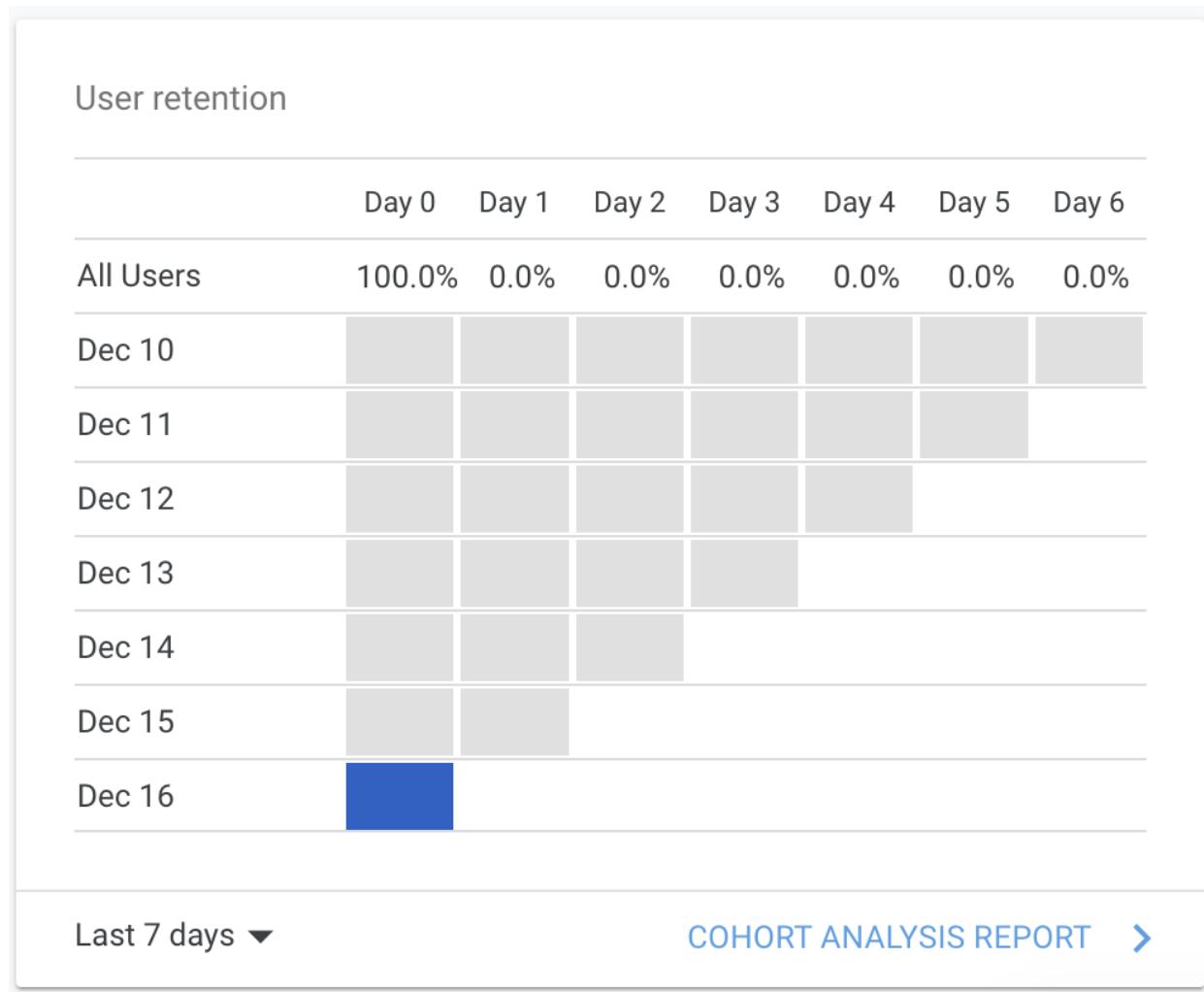
1

/account/inbox

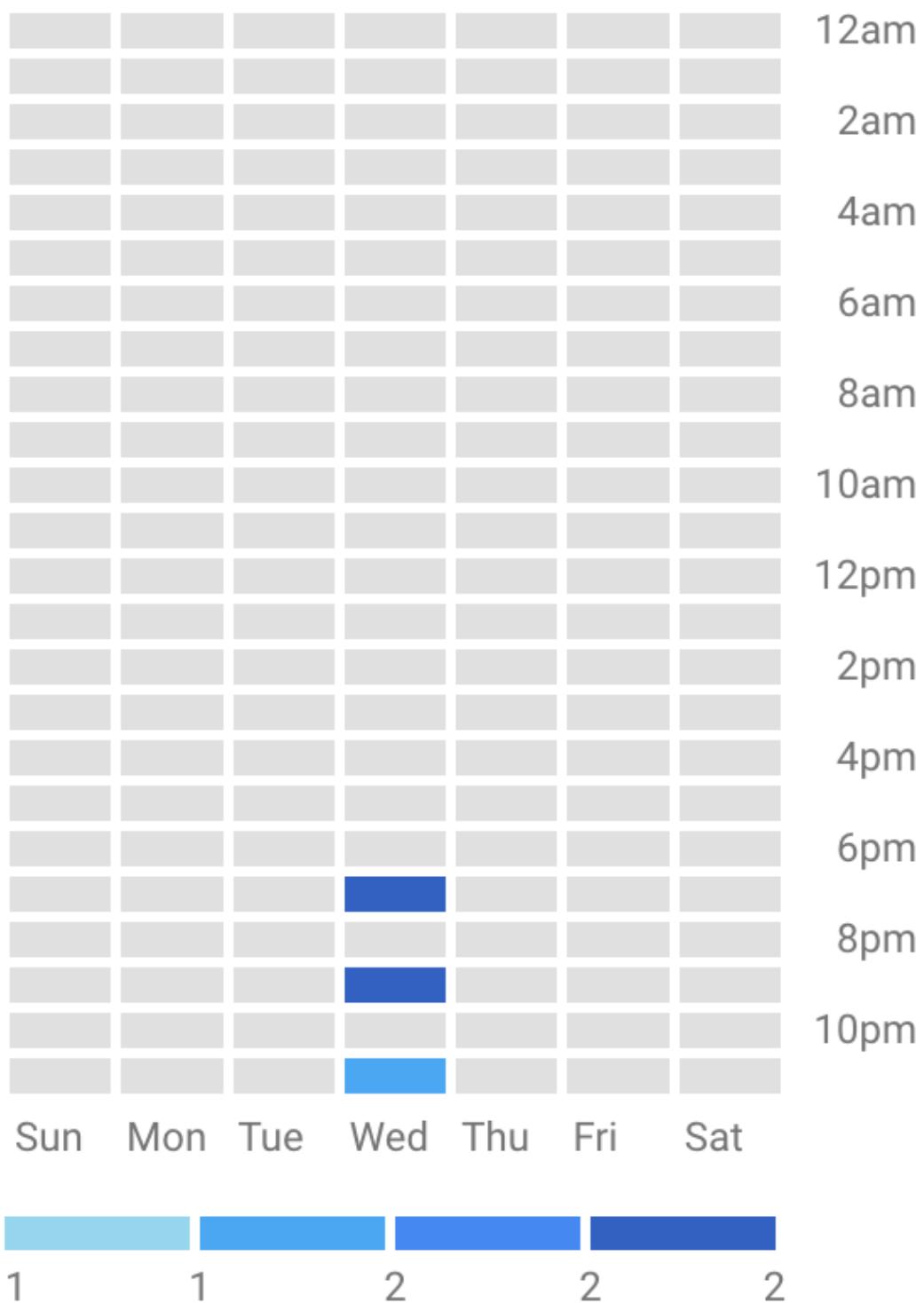
1





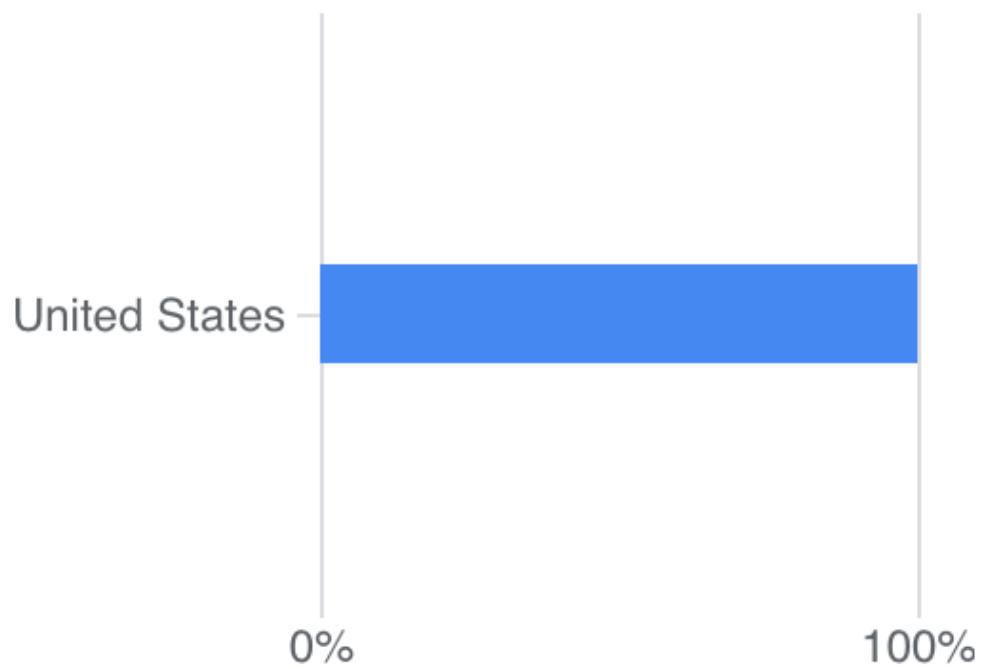


## Users by time of day

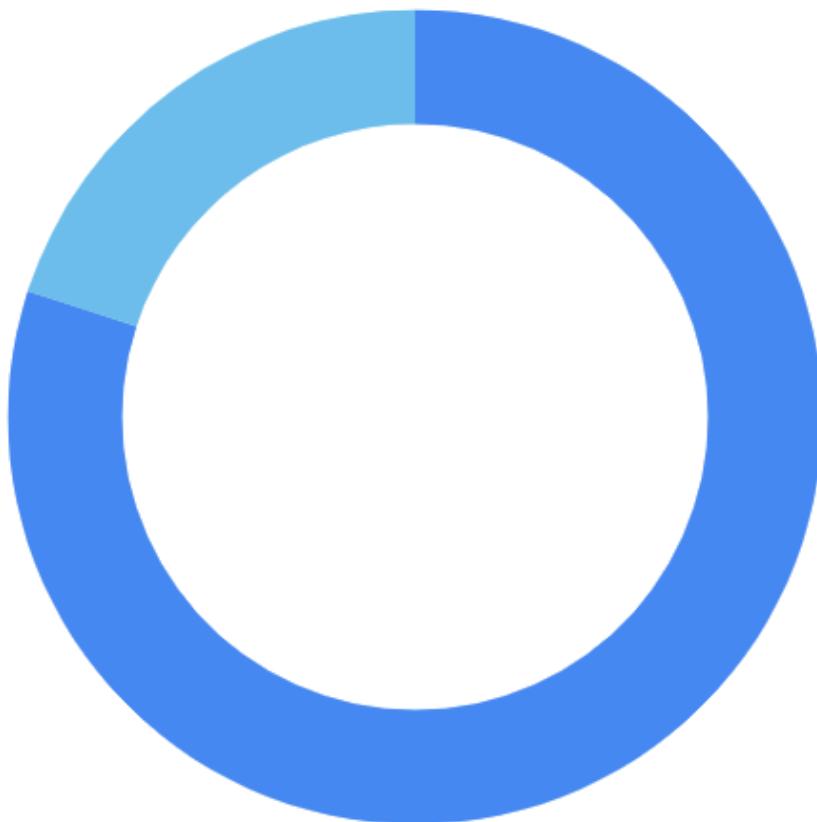


Last 7 days ▼

## Sessions by country



## Sessions by device



Desktop

80.0%

-



Mobile

20.0%

-

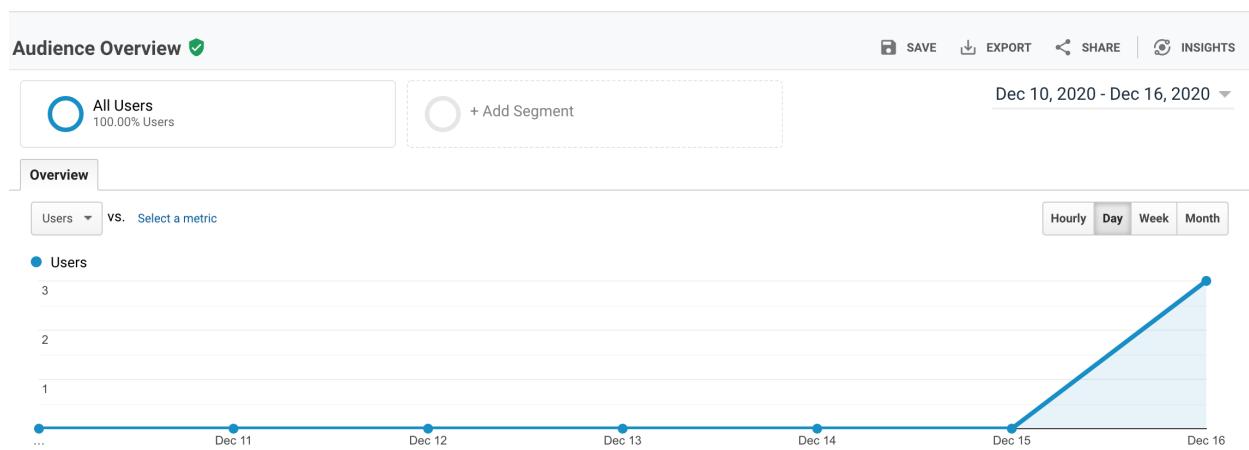
Last 7 days ▼

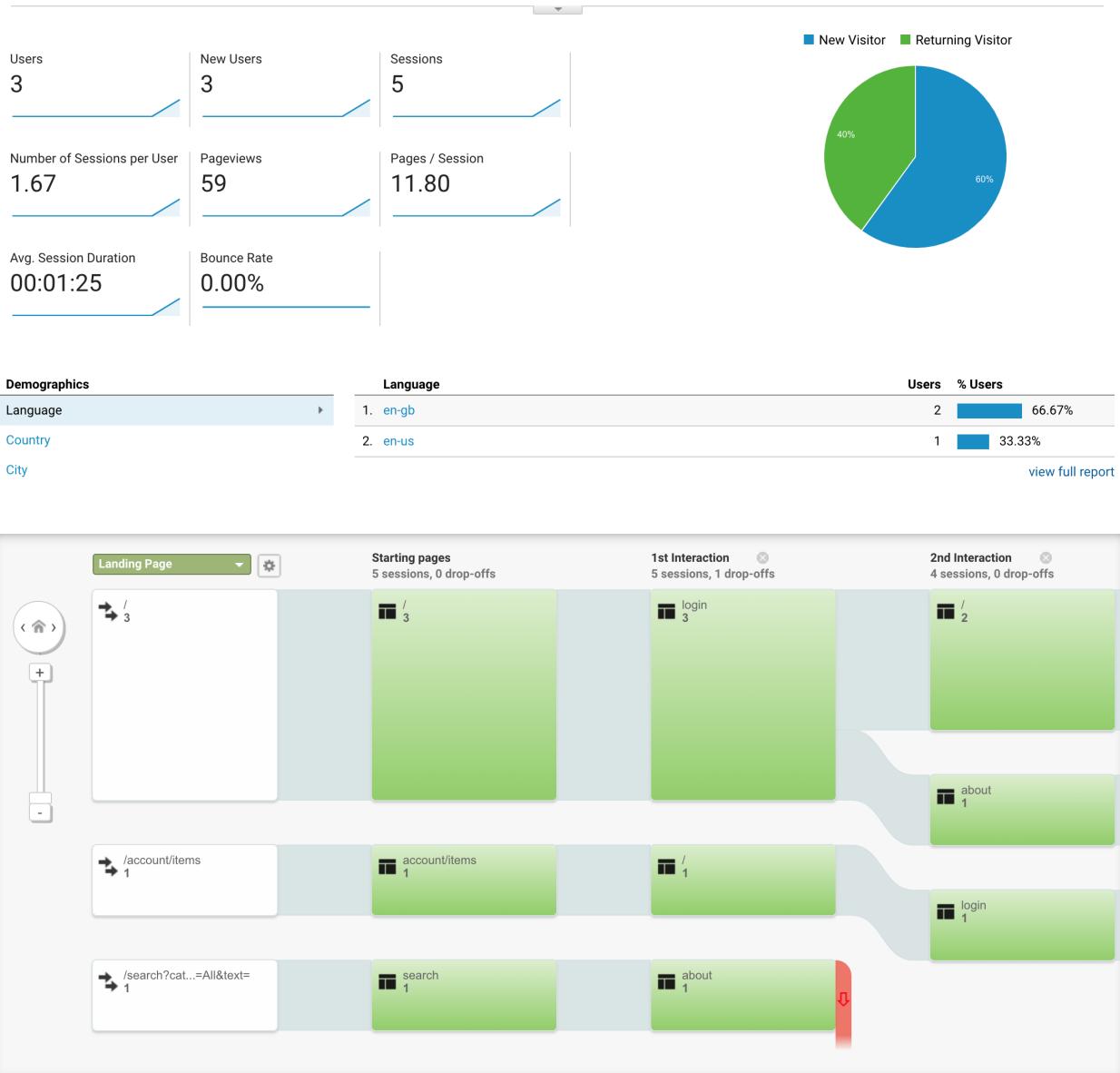
MOBILE OVERVIEW >

Page	Pageviews	Page Value
/	15	\$0.00
/about	11	\$0.00
/account	6	\$0.00
/item/new	6	\$0.00
/login	6	\$0.00
/account/items	4	\$0.00
/item/thankyou	4	\$0.00
/about/cody	2	\$0.00
/account/inbox	2	\$0.00
/search?category>All&text=	2	\$0.00

Last 7 days ▼

PAGES REPORT &gt;

**Top Locations:**



# Project management:

Using Github & Discord we managed our projects and issues.

## Projects:

Frontend Pages - Version 1 <span>Private</span>	All v1 pages must get done so backend can work with them	...
Frontend Checkpoint <span>Private</span>	making sure everyone is up and running to start writing the front end pages	...
Milestone 2 - Document <span>Private</span>	Just a simple way for members to show they are done <a href="https://docs.google.com/document/d/1p5cn64nlYH9-9u89Ydk9nPvLGxOZW3C1MBXiA3LHzwA/edit">https://docs.google.com/document/d/1p5cn64nlYH9-9u89Ydk9nPvLGxOZW3C1MBXiA3LHzwA/edit</a>	...
Milestone 2 - Backend <span>Private</span>	Backend DB stuff	...
Milestone 2 - Frontend <span>Private</span>	Frontend Drafting	...
Milestone 0 <span>Private</span>	Setup and About pages	...
<hr/>		
Thursday Night <span>Private</span>	These are issues that must be done by Thursday night before our presentation.	...
Wednesday Night <span>Private</span>	These are issues that need to be finished Wednesday night	...
Final Push <span>Private</span>	Last bits before we present	...
Backend - Priority 1 <span>Private</span>	This is where we will manage backend issues in regards to meeting all our priority 1 requirements	...
Frontend Pages - Version 2 <span>Private</span>	This is where we will really start to connect and cleanup all the pages for the website	...

## Project Overview:

The screenshot shows a project management interface with three main columns: To do, In progress, and Done.

- To do:** 1 item: "Need to fix DB postings and such so we ... dont have empty images" (opened by robertianClarkson, priority\_1, backend, database). Status: Automated as To do.
- In progress:** 0 items. Status: Automated as In progress.
- Done:** 7 items:
  - "Google Analytics" (opened by robertianClarkson, priority\_1, database). Status: Automated as Done.
  - "Need an SQL script to set an item to approved and available" (opened by robertianClarkson, priority\_1, database). Status: Automated as Done.
  - "New Item Description not showing newline ('\n')" (opened by robertianClarkson, priority\_2, database). Status: Automated as Done.

Header navigation includes: Code, Issues (4), Pull requests, Actions, Projects (11), Wiki, Security, Insights, Settings. Top right: Unwatch (3), Star (0), Fork (0).

## Issues:

	Author ▾	Label ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/> ⓘ 5 Open ✓ 118 Closed						
<input type="checkbox"/> ⓘ M5 Documentation documentation priority_1						
#222 opened 4 days ago by robertianClarkson ➔ Final Deadline						
<input type="checkbox"/> ⓘ Need to fix DB postings and such so we dont have empty images backend database priority_1						
#220 opened 4 days ago by robertianClarkson ➔ Final Deadline						
<input type="checkbox"/> ⓘ Post Item Needs Validation bug						
#218 opened 7 days ago by robertianClarkson ➔ Final Deadline						
<input type="checkbox"/> ⓘ Code Comments backend frontend priority_1						
#195 opened 17 days ago by robertianClarkson ➔ Post Thanksgiving...						
<input type="checkbox"/> ⓘ Need to add headers to files backend priority_1						
#153 opened on Nov 13 by robertianClarkson ➔ Post Thanksgiving...						

### Need to fix DB postings and such so we dont have empty images #220

[Edit](#)[New issue](#)

ⓘ Open robertianClarkson opened this issue 4 days ago · 0 comments



robertianClarkson commented 4 days ago

Right now the frontend is trying to load images that do not exist. This is because of multiple branches making DB calls and not syncing up data such as posted images.

We need to fix this so that the website and DB are in a production state. THIS IS VERY IMPORTANT. otherwise the website will look as though it is having errors and incomplete.

  robertianClarkson added backend database priority\_1 labels 4 days ago

  robertianClarkson added this to the Final Deadline milestone 4 days ago

  robertianClarkson assigned camper4834 4 days ago

Assignees

 camper4834

Labels

backend database priority\_1

Projects

Final Push	<div style="width: 80%; background-color: green;"></div>
To do	<a href="#">To do</a>
Wednesday Night	<div style="width: 90%; background-color: green;"></div>
To do	<a href="#">To do</a>

## Discord:

# general

@everyone can someone send me a message for the bike, guitar, and rc plane? just for a screenshot so no crazyness

**Taylorluke** Today at 6:17 PM  
yes  
will do rn  
done

**Chromatus** Today at 6:30 PM  
@mumbu22 sorry it took a while but my email is out

**camper4834** Today at 6:43 PM  
What's happening? I been working on a robot car all day.

**Chromatus** Today at 6:45 PM  
we are working on the m5 right now

**mumbu22** Today at 6:46 PM  
thanks @Chromatus  
I am doing code comments right now

**Iriya** Today at 6:47 PM  
i have a class starting in 15 min and is over at 10 so i will be mia during that time

**mumbu22** Today at 7:06 PM  
gotit  
@camper4834 I need you to finish comments for routes/ and views/ + each file needs a header  
If code is commented out you can delete. Please do not touch functional code at this point (edited)  
@everyone has that m5 looking?  
@camper4834 I need you email for part 8 of m5. Check your school email (edited)  
@everyone I updated the M5 issue plz view and finish  
<https://github.com/CSC-648-SFSU/csc648-03-fa20-team01/issues/222>  
all we need is the changes to m1 through m4

ONLINE—6

- Chromatus
- Iriya
- mumbu22
- shadow6188
- Simple Poll BOT
- Taylorluke

OFFLINE—1

- camper4834

+ | Message #general

Gift GIF 🎉

# Team member self assessment and contributions:



Kevin Fung

Thu 12/17/2020 4:57 PM

To: Robert Ian Clarkson; Hong Li; Taylor Rane Luke; Cody Camp; Gerardo Ochoa  
 Cc: kevinfung9622@gmail.com



Hello teammate,

My contributions to the team:

- Managing the GitHub
- Working on frontend pages
- Offer help on issues related to GitHub
- Fix issues and bugs related to the frontend
- Offer help to other when needed

Commit count: 43 according to the result of the command <git shortlog -s> result might be inaccurate because we are using squash and merge

Some challenges I faced was learning the new language, format, and looking up GitHub related problem. This project is the first time i have use Pug, even though it is a shorthand version of html, I still took some time to get use to the way it is written and figure out that pug can do with it layout, but after I figure it out everything become quite easy to follow. same with materializecss, this is a predefine CSS, which I was not use to because I have always do my own CSS until i encounter this.

Something I would do better next time is focus on my role a little more, as the git master of the team, I should have more control on the github, and make sure everything is running smoothly, but there were time where branches are getting mess up, and cause error or, some code get messing up during a pull request merge, if I focus and pay attention on those, it should not happen at all.

[Reply](#) | [Reply all](#) | [Forward](#)



Taylor Rane Luke

Thu 12/17/2020 5:35 PM

To: Robert Ian Clarkson; Cody Camp; Hong Li; Kevin Fung; Gerardo Ochoa



Hello Teammates,

My contributions:

- Leading the font-end
- Changing styling of pages
- Designating tasks to front-end members
- Communicating with the team lead
- Creating mockups and wireframes
- Creating multiple pages for the website, account, log in, etc.
- Creating Navbar
- Learning and executing pug
- Altering the colors and format of the website

Number of submissions made to github: 76 commits (This number is not accurate because we used the "squash and merge" functionality when merging branches)

One of the main challenges I faced was towards the beginning of the project. Expectations were a bit different in some eyes and getting on the right track took a bit longer than expected. After a while I navigated how each person communicated and how they liked things to be done and the project was then smooth sailing. Pug was also an issue I came across because the code and format was something I had never worked with before.

Something I would like to improve on next time would more communication in the beginning. I also would like to work on my delegating skills. It was hard for me to ask others to do work, which was fair for me to do being the front end lead. Knowing when to ask for help is also something I would like to work on as well. There's no such thing as too much communication in projects like this, so feeling afraid to bug a teammate is something I need to work on.

**Taylor Luke**  
 ID: 918039140  
 Computer Science Undergrad



Gerardo Ochoa

Thu 12/17/2020 4:47 PM

To: Kevin Fung; Hong Li; Taylor Rane Luke; Cody Camp; Robert Ian Clarkson



Hello Teammates,

My contributions:

- help on both front end and back end
- did the wire frame for admin page and login page
- did the mock up for those pages on Figma too
- help implement the search function on both front-end and back-end
- implemented the feature of filtering search results by date & price
- wrote a good amount of the database query functions
- also handle some of the post and get request on the back-end
- add the change password feature on both fronted and back-end

Number of submissions made to github: 43+ commits (This number is not accurate because we used the "squash and merge" functionality when merging branches)

The main challenge I encountered on this project was learning pug and materialize on the fly. I had already largely forgot HTML so it was a crunch to relearn it and then master pug and materialize.

Next time I will definitely voice opposition to picking up new frameworks that the team is not familiar with, there were a couple of times when materialize did more harm than good



Robert Ian Clarkson

Thu 12/17/2020 3:54 PM

To: Kevin Fung; Gerardo Ochoa; Hong Li; Cody Camp; Taylor Rane Luke



Hello Teammates,

My contributions:

- Leading the entire team
- Choosing frontend & backend leads
- Choosing technologies used
- Creating and managing issues on github
- Keeping an eye on the project as a whole
- Creating example mockups & wireframes
- Drafting backend routes
- Drafting frontend structure
- Drafting DB interface structure
- Debugging issues
- Corresponding with CEO and CTO
- Distributing issues to teammates
- Putting final shine on frontend
- Proof reading and contributing to documentation
- Setting and meeting deadlines

Number of submissions made to github: 75 commits (This number is not accurate because we used the "squash and merge" functionality when merging branches)

The main challenge I faced as team leader was getting my teammates to interact. At the beginning of the semester, it seemed like some members didn't really want to do anything. While the final product is not a refined as I wanted, those members did step up and become better players in the team. Another challenge was keeping branches mergeable. Sometimes a member would do a lot of great work but on a very old branch. This meant a lot of merge conflicts to be sorted out. Finally, all members had a different range of experience. I was under the impression that since this was a senior level course that all members would have a similar knowledge. This proved to be wrong as some members had a greater knowledge in different fields as other members.

Something I would do better next time would be to take the project less serious. I think me trying to make as good of a project as possible spooked some members and affected their moral. Maybe members didn't want to freak me out or look inexperienced. If I could do it again I would be a little more light hearted. Also I would have used bootstrap or react as a frontend framework. So many jobs require experience in both so using react or bootstrap would have been a better option to give experience in a skill that will better help them in the future.

**Robert Clarkson**

ID: 915433914

Computer Science Undergrad

## CSC648- Team01 - Self Assessment and Contribution

Hong Li  
Thu 12/17/2020 6:29 PM  
To: Robert Ian Clarkson; Cody Camp; Kevin Fung; Taylor Rane Luke; Gerardo Ochoa

Hello teammates,

My contributions:

- Following the lead's assigned tasks and suggestions.
- Work on frontend pages.
- Mock-up and wireframe for register and item pages.
- Main focus were the register and post item front side functions.
- Implement a simple footer in the beginning.
- Image upload to folder using multer.
- Communication with team members on issues.

Number of contributions made on github is: 82 commits. (This number is not accurate because we used the "squash and merge" functionality when merging branches)

Throughout the project there were a few challenges I had to face. One was being in zoom sessions and not saying much. Normally I am focusing and listening until I really have something to say or the issue is directly connected to me. During zoom calls I also didn't have a camera on so it could seem like I am not participating. The second issue was learning to use pug which was something I have not done before. It took a bit of time for me to learn it and use the things the lead wanted. The third one was communication, which as a member I tried to communicate with leads on issues. Each of us had different schedules and other things to deal with so sometimes it took some time to get the member's opinions.

Something I would like to improve next time is communication. I should try to put in my voice more during meetings so it wouldn't look like I am not focused or make it hard for the lead. I would also put more time into learning and adapting the languages we are using so I can make my coding more organized and function better.

[Reply](#) | [Reply all](#) | [Forward](#)

## CSC 648 Self Assessment

Cody Camp  
Thu 17/12/2020 21:45  
To: Hong Li; Robert Ian Clarkson; Kevin Fung; Taylor Rane Luke; Gerardo Ochoa

Hello Teammates,

My contributions:

- Working with the database
  - Designing and creating the tables and entities
  - Filling the database with dummy data
  - Using MySQL Workbench to edit and troubleshoot the database
  - Connecting the database to the server
  - Creating many of the SQL queries that the website used
  - Making sure the queries were parameterized for safety
- Backend work
  - Code and debug photo upload functionality (90% me)
  - Code and debug search functionality (60% me)
  - Functionality for creating new items and adding to database

Number of contributions made on GitHub is: 86 commits. (This number is not accurate because we used the "squash and merge" functionality when merging branches)

One of the more difficult challenges was having to learn new technologies quickly. I learned how to use pug (the html template engine) and materialize (like bootstrap) in a week. I was responsible for everything involving the database, so I needed to nail down things like "best practices when working with databases" and knowing what to look for when things go wrong as I had to do a lot of debugging here. Debugging was another challenge since there are too many facets to web development. No two issues were alike since we were working with NodeJS, a database, a Linux server, and a lot of Express middleware that can have varied issues since each one was written by a different person. I enjoyed debugging even though it was difficult because I got to research and learn about many different technologies and frameworks. One could say it never became boring.

To do better for next time I would have liked to write cleaner code from the beginning. I would have liked to write tests instead of adding print statements everywhere. I would have liked to write better comments and documentation. I'm sure that the fast-paced learning made it difficult to write clean code right away but having clean, documented, testable code would have made things much easier in the end of development. As we learned, maintaining code is most of the work, so setting ourselves up for success in the beginning is critical.