

# SW Engineering CSC648/848 Section 01 Spring 2017 Student Swap

Group 06

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**[http://sfsuse.com/~sp17g06/student\\_swap/web/](http://sfsuse.com/~sp17g06/student_swap/web/)**

**05/20/2017**

Version 5.0

# Product Summary

Product: Student Swap

Student Swap is a San Francisco State University oriented website dedicated for the mediation of student driven interactions for the sole purpose of creating a community through our application. Student Swap is an application designed to help students become accustomed to college life by bringing them together in search of school related products and services. Student Swap is the application students and faculty will be able to use when searching for anything relating to our school.

Our website is a posting service where users from SFSU wanting to buy and sell to others can do it in relative safety knowing that the receiver or seller is part of the SFSU community. Our focus is to provide a way for users of the SFSU community can efficiently and safely undergo transactions with relative safety.

A few key features of our website:

- Intuitive search
- Keywords and categories
- Hyper-local focus
- For students, by students

In accordance with user safety and California Law, our website policy on information on our database is effectively protected and encrypted to ensure our users do not become the victims of fraud. With our site only being a posting service, our website does not provide facilitating the transactions of the people involved. Our website is dedicated to helping students find one another for their time at SFSU.

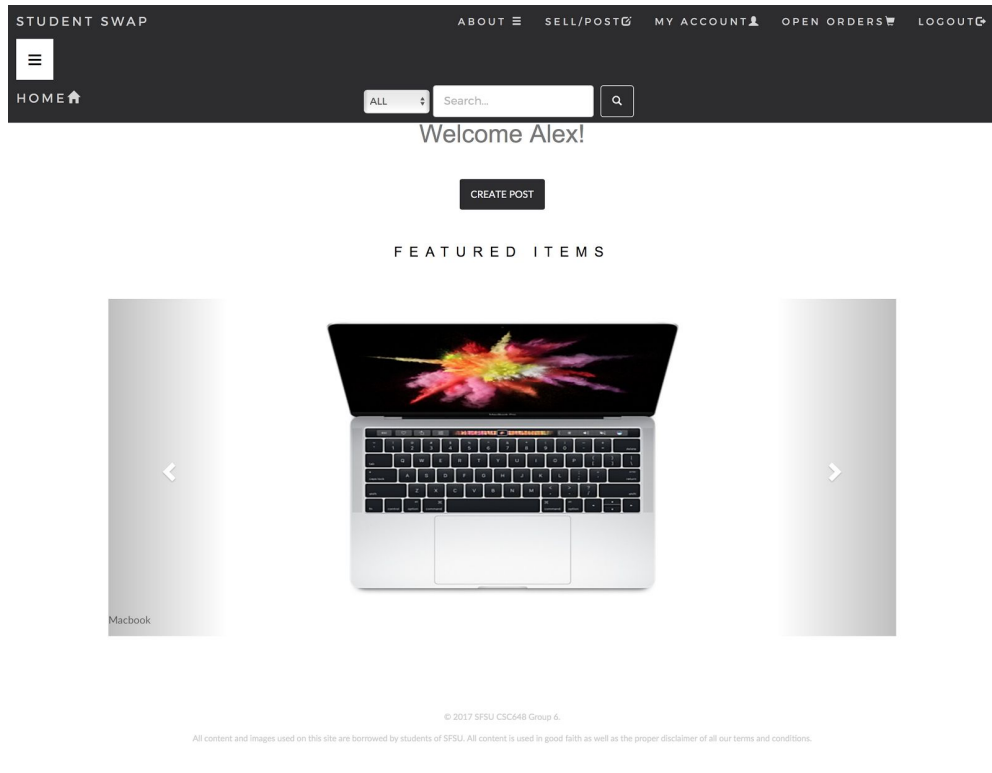
Finally, what is unique to our website is the offerings of student facilitated tutoring as a service provided for the users of Student Swap. Our users will be able to list and offer tutoring to those who need assistance in the courses listed by the user. Tutors will be able to list a set of classes that they have taken or are proficient in and are able to be a source of help for other students in need.

Student Swap Link: [http://sfsuse.com/~sp17g06/student\\_swap/web/](http://sfsuse.com/~sp17g06/student_swap/web/)

# **Milestone Documentation History**

## Product Screenshots

### HomePage:



### Account Creation Page:

The screenshot shows the 'My Account' page. The header is identical to the homepage. The main heading is 'My Account'. Below it, there are several form fields for updating user information:

- Change Name:**
  - First:** A text input field with the placeholder 'Update First Name'.
  - Last:** A text input field with the placeholder 'Update Last Name'.
- Change Phone:** A text input field with the placeholder 'Update Phone # (E.g. 'xxx-xxx-xxxx')'.
- New Password:** A text input field with the placeholder 'Update Password'.
- Repeat New Password:** A text input field with the placeholder 'Repeat New Password'.

At the bottom of the form is a green button labeled 'Update'.


## Search Results Page

ALL

phone


Listings (5 items found)

red  
iPhone




Category: tech  
Description: special edition, 256g,  
verizon  
Price: 800.00  
[BUY form](#)

iPhone  
6



Category: tech  
Description: black, new in box,  
sprint  
Price: 675.00  
[BUY form](#)

Beats  
headphones










Category: tech  
Description: Beats by Dre,

## Open Orders (Mobile)

iPhone SE iPhone 6s iPhone 6s Plus iPad mini 4 iPad Air 2 iPad Pro 800 x 600 1366 x 768 1920 x 1080

STUDENT SWAP

Open Orders

Service	Image	Name	Posted Date	Price
Selling		Small desk	05-22-2017	50.00
Selling		Normal Hat	05-22-2017	120.00
Selling		Math tutoring	05-22-2017	25.00
Selling		Painter	05-22-2017	100.00
Selling		Jar of grapes	05-22-2017	10.00
Selling		Airplane	05-22-2017	25999.00
Selling		space heater	05-22-2017	50.00

# Workbench Screenshots

## Users / Passwords

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: images item **user**

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

sp17g06

- Tables
- displays
- images
- item
- user**

Information

Table: displays

Columns:

- id: int(11) AI PK
- postid: int(11)
- itemid: int(11)
- serviceid: int(11)

SQL Editor

```
SELECT * FROM sp17g06.user;
```

Results

#	Time	Action	Message	Duration / Fetch
1	12:33:15	SELECT * FROM sp17g06.displays LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec
2	12:33:28	SELECT * FROM sp17g06.images LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
3	12:33:30	SELECT * FROM sp17g06.item LIMIT 0, 1000	2 row(s) returned	0.015 sec / 0.000 sec
4	12:33:32	SELECT * FROM sp17g06.user LIMIT 0, 1000	9 row(s) returned	0.015 sec / 0.000 sec
5	12:33:38	SELECT * FROM sp17g06.displays LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec

## Items

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: images **item** user

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

sp17g06

- Tables
- displays
- images
- item**
- user

Information

Table: displays

Columns:

- id: int(11) AI PK
- postid: int(11)
- itemid: int(11)
- serviceid: int(11)

SQL Editor

```
SELECT * FROM sp17g06.item;
```

Results

#	Time	Action	Message	Duration / Fetch
1	12:33:15	SELECT * FROM sp17g06.displays LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec
2	12:33:28	SELECT * FROM sp17g06.images LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
3	12:33:30	SELECT * FROM sp17g06.item LIMIT 0, 1000	2 row(s) returned	0.015 sec / 0.000 sec
4	12:33:32	SELECT * FROM sp17g06.user LIMIT 0, 1000	9 row(s) returned	0.015 sec / 0.000 sec
5	12:33:38	SELECT * FROM sp17g06.displays LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec

# Images

MySQL Workbench interface showing the 'Images' table in the 'sp17g06' database. The query editor displays the query: `SELECT * FROM sp17g06.images;`. The result grid shows the following data:

id	image_name	post_id	updated_at
1	591e17336e341.png	1	2017-05-18 21:50:43
2	591e1e67a3972.png	2	2017-05-18 22:21:27

The left sidebar shows the database structure with 'images' selected. The bottom pane shows the 'Table: displays' information:

**Table: displays**

**Columns:**

- id: int(11) AI PK
- postid: int(11)
- itemid: int(11)
- serviceid: int(11)

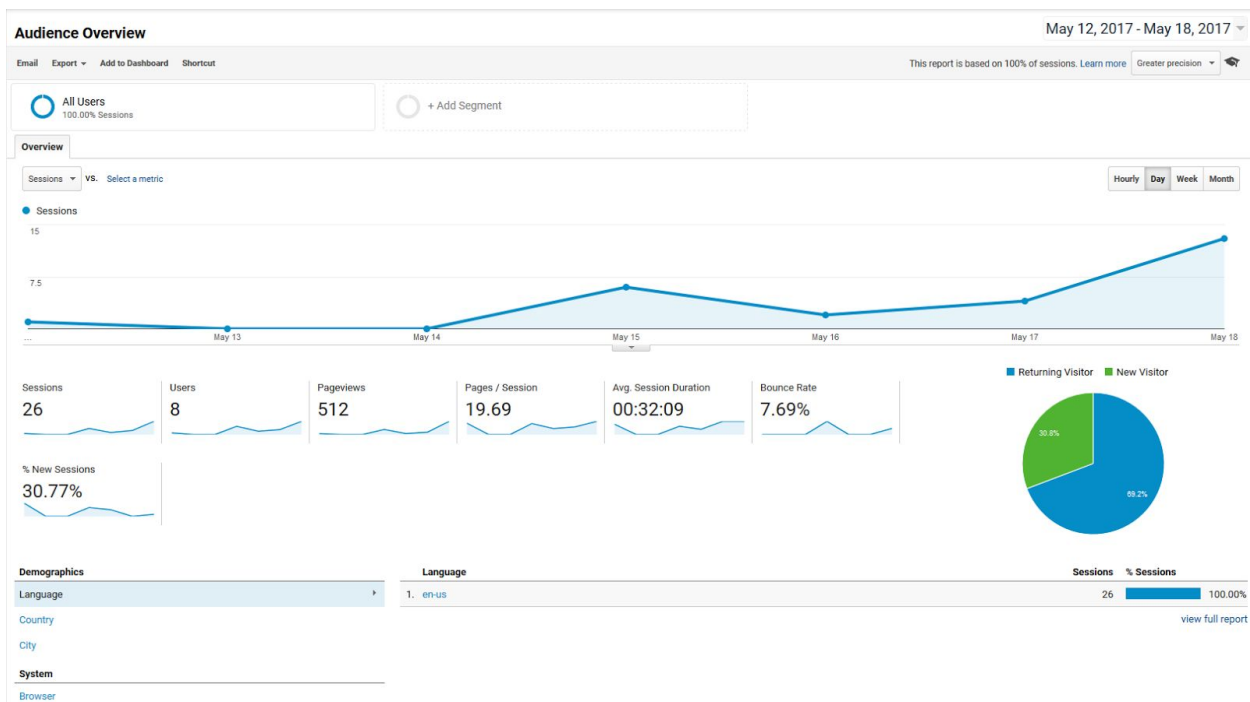
# Displays

MySQL Workbench interface showing the 'Displays' table in the 'sp17g06' database. The query editor displays the query: `SELECT * FROM sp17g06.displays;`. The result grid shows the following data:

id	postid	itemid	serviceid
1	1	1	1
2	1	2	1
3	1	3	1
4	1	4	1
5	1	5	1
6	1	6	1
7	1	7	1

The left sidebar shows the database structure with 'displays' selected. The bottom pane shows the 'Schema: sp17g06' information.

# Google Analytics:





# Team Member Contributions

**Alex Gaesser:** [agaesser@gmail.com](mailto:agaesser@gmail.com) 26 commits

As team lead, I oversaw teamwork and worked with team members on both front and back end tasks, as well as performed code reviews and generated documentation.

**Avery Chua:** [Achua@mail.sfsu.edu](mailto:Achua@mail.sfsu.edu) 5 commits

Focused on complete documentation and note taking on all aspects of StudentSwap. Was the record keeper of all Milestones and kept track of all suggestions given to us by our project manager and lead tech advisor. Avery kept all records as well as maintained the focus of the group where understanding the overlying structure of the project was found. Handled all documentation for group 6.

**Leanna Pangan:** [lpangan@mail.sfsu.edu](mailto:lpangan@mail.sfsu.edu) 21 commits

I was responsible for most of the front-end tasks. This includes: setting up the layout for most pages, making css changes, and ensuring there was a general flow between clicking through each page.

**Anthony Ma:** [anma14@mail.sfsu.edu](mailto:anma14@mail.sfsu.edu) 11 commits

I did some of the front end and emphasized on css changes. Also kept an eye on some of the github management for maintaining current issues.

**Robin Ma:** [rma1@mail.sfsu.edu](mailto:rma1@mail.sfsu.edu) 1 commit

I worked on the initial design of the database and checked the implementation of the database. Partially worked on openOrder and searchAction, but both didn't work out very well as I couldn't figure out the problem I was encountering. I will be doing the presentation as part of my senior oral presentation and I'm working out my thought now.

**Elric Dang** [elricd12@gmail.com](mailto:elricd12@gmail.com) 19 commits

Researched and developed the messaging integration for the site. Twilio offloaded messaging to texts using an API. I also implemented the image upload service, as well as was critical to the success of debugging some tough issues with the database and search functions.

**Greg Ruffin:** [gruffin@mail.sfsu.edu](mailto:gruffin@mail.sfsu.edu) 133 commits

I was CTO. I was responsible for technical decisions and some of the backend including users and items.

**In two-three paragraphs, max ½ page outline**

Most of the challenges were either of a technical nature or experience-based. This is the first time that most of the team worked on a project in a distributed format, and this was the largest group I think any of us have worked in. We adopted tool -Slack- used industry-wide, to communicate. This made keeping track of documents, keeping up to date with code changes, and communicating easy and centralized. We established early that all critical communications are to be held there, and each team member needed to check in often and stay up to date with the group progress.

Another challenge was difficulty in getting the symfony framework consistently working. Everyone on the team has some experience with web development, but Symfony introduced some quirks that had many researching more often than coding. To be certain - the framework did make a lot of things easier (like with templating), but when that templating broke down, or we encountered unexpected behavior, it took a while to research the solution.

In the future, I would spend more time investigating the frameworks and any other technology before adopting it. I would also increase the frequency at which the team meets by at least double. The nature of this project caused a lot of things to be held up until the end, and we could have avoided some last-minute issues if we had a little more focus at the beginning.