

Final Project for SW Engineering Class CSC 648-848

Section 01 Spring 2017

Team # 02

Website name: TheGatorBay

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Url: <http://www.sfsuse.com/~sp17g02/>

May 22nd, 2017

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1. Product Summary

The GatorBay is a one stop destination website for all the buying and selling needs of SFSU students. The website is designed specifically for SFSU students and provides an ecommerce platform with a beautiful, modern and responsive interface. Every aspect of the website is designed with a student centric approach. The website is currently accessible at: - <http://sfsuse.com/~sp17g02/>.

Students as consumers are very choosy, difficult to please and characterized to be busy. GatorBay provides a sleek UI with an accurate and fast search functionality to display users the best results. The search functionality is complemented with filters such as category, conditions, and price range filter. The website also provides sorting options. These features combine to give the users an effortless experience to search for the exact item they need. The search bar can be accessed from almost every page of the website. This makes it easy for users to navigate and search throughout the website.

The users are also given an option to view the items in a beautiful quick view so that they never have to leave the search page to see the details of the item. This not only leaves a great impression of the UI but also reduces the number of clicks required to complete the transaction.

Every effort has been made to make GatorBay a good choice to not only buy items but also sell items. Once registered, a user can sell an item with very few clicks, thus opening up a massive community of buyers in no time. The simple and very easy to understand interface requires absolutely no training for posting an item for sale on the website. Being said that, it is important to note that GatorBay requires sellers to mention the location of pickup of the item. This is then in turn shown to the users on Google Maps. But to make this experience seamless, GatorBay also makes use of the Google's Places API to autocomplete the address which also reduces the time required by the seller to enter the address. GatorBay displays an approximate location on map thus making sure that privacy is not breached. It also provides a default location option of SFSU. Many of these features are unique to the GatorBay website.

To create a connection between a buyer and a seller, GatorBay takes a unique private messaging approach. The buyers are given an option to contact the seller and all the messaging is managed right inside the website. This encapsulates the entire process of buying and selling inside the website. Thus the users are never required to share any of their personal contact information. The sellers are shown all the items they are selling on one page. Every item also has a link to all the messages they have received from buyers. Such minute attention to detail makes it easier for sellers to manage the items they are selling. On the other hand, users are also shown messages which they have sent to sellers.

These features will enable GatorBay to become an excellent hotspot for students to reach out to fulfill all of their buying and selling needs.

Name of the website: - TheGatorBay

List of P1 features: -

All users: -

1. All users will be able to sort the listings based on price and date on which the listings were posted on the website.
2. All users will be able to search for listings using keywords.
3. All users will be able to use the QuickView functionality, which enables the user to view a summary of a chosen item. This summary is displayed in a modal on the same page.
4. All users will be able to see the pickup location of the listing in Google Maps on the details page.
5. Any user will be able to filter the listings based on the condition and price of the items.

Registered Users: -

6. Registered users will be able to message the sellers in order to connect with them for further transactions.
7. Only registered users will be allowed to list an item for selling on the website.
8. These users will be able to see all the items they are selling in one page.
9. When registered users are trying to list an item for selling they will be able to provide the pick up location using Google's autocomplete address bar.
10. When listing an item for selling, these users will be able to upload multiple images. These images are then displayed on the details page to all the users.
11. A registered user will also be able to edit the price, description, title and condition of the listing which he/she is selling.

2. Product Screen-Shots

1. Welcome Page

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GatorBay

All Categories search items

Welcome to GatorBay
A place where Gators buy and sell!

San Francisco State University

RECENT ITEMS

 T Category: electronics Condition: fair \$ 2 QUICK VIEW CONTACT SELLER	 SONY HEADPHONES Category: books Condition: fair \$ 25 QUICK VIEW CONTACT SELLER	 OLD CALCULATOR Category: electronics Condition: good \$ 4 QUICK VIEW CONTACT SELLER	 MAC Category: electronics Condition: fair \$ 1300 QUICK VIEW CONTACT SELLER
---	--	--	--

GatorBay

GatorBay is a unique website designed and developed by San Francisco State students to cater their needs for buying and selling items.

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Links

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2. Sign-in Modal

The screenshot shows the GatorBay website with a sign-in modal window centered over the page. The modal has a dark background and contains the text "SIGN IN" at the top. Below it are fields for "Username" and "Password", each with a corresponding input field. Underneath the password field is a link "Forgot password?". At the bottom of the modal is a "SIGN IN" button. Below the modal, a message says "Don't have an account? Register [here!](#)". The background of the website features a landscape image with a search bar and navigation links like "Sell" and "Register/Sign in". Below the sign-in modal, there is a section titled "RECENT ITEMS" displaying four items: a laptop, Sony headphones, an old calculator, and a Mac keyboard.

SIGN IN

Username _____

Password _____

[Forgot password?](#)

SIGN IN

Don't have an account? [Register here!](#)

RECENT ITEMS

Category: electronics Condition: fair \$ 2	SONY HEADPHONES Category: books Condition: fair \$ 25	OLD CALCULATOR Category: electronics Condition: good \$ 4	MAC Category: electronics Condition: fair \$ 1300
QUICK VIEW	QUICK VIEW	QUICK VIEW	QUICK VIEW
CONTACT SELLER	CONTACT SELLER	CONTACT SELLER	CONTACT SELLER

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3. Registration Page

The screenshot shows the GatorBay registration process. At the top right, there are links for "Sell" and "Register/Sign in". The main area is titled "REGISTRATION" and contains three input fields: "Email", "Username", and "Password". Below these fields is a link to the "Terms and Conditions". A large "REGISTER" button is centered below the password field. At the bottom, there is a link for users who already have an account to "Log in here!".

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GatorBay

SELL REGISTER/SIGN IN

REGISTRATION

Email _____

Username _____

Password _____

By creating an account, you agree to our [Terms and Conditions](#).

REGISTER

Already have an account? Log in [here!](#)

RECENT ITEMS

	SONY HEADPHONES	OLD CALCULATOR	MAC
T Category: electronics Condition: fair \$ 2 QUICK VIEW CONTACT SELLER	SONY HEADPHONES Category: books Condition: fair \$ 25 QUICK VIEW CONTACT SELLER	OLD CALCULATOR Category: electronics Condition: good \$ 4 QUICK VIEW CONTACT SELLER	MAC Category: electronics Condition: fair \$ 1300 QUICK VIEW CONTACT SELLER

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4. Logged-in page

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GatorBay

Welcome ajinkya! Sell Messages My Items Logout

All Categories search items

Welcome to GatorBay
A place where Gators buy and sell!

San Francisco State University

RECENT ITEMS

 SONY HEADPHONES Category: books Condition: fair \$ 25 QUICK VIEW CONTACT SELLER	 OLD CALCULATOR Category: electronics Condition: good \$ 4 QUICK VIEW CONTACT SELLER	 MAC Category: electronics Condition: fair \$ 1300 QUICK VIEW CONTACT SELLER	 WINDOWS COMPUTER Category: electronics Condition: poor \$ 200 QUICK VIEW CONTACT SELLER
---	---	--	---

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5. Listings Page

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GatorBay

Welcome ajinkya! Sell Messages My Items Logout

All Categories search items

Home > Listings

Showing 5 results from all categories

sort: Newest

CONDITION

- New
- Like New
- Good
- Fair
- Poor

PRICE RANGE

- Any price
- Under \$25
- \$25 - \$49.99
- \$50 - \$74.99
- \$75 - \$99.99
- \$100 or more

APPLY


SONY HEADPHONES
Category: books
Condition: fair
\$ 25
[QUICK VIEW](#) [CONTACT SELLER](#)


OLD CALCULATOR
Category: electronics
Condition: good
\$ 4
[QUICK VIEW](#) [CONTACT SELLER](#)


MAC
Category: electronics
Condition: fair
\$ 1300
[QUICK VIEW](#) [CONTACT SELLER](#)


WINDOWS COMPUTER
Category: electronics
Condition: poor
\$ 200
[QUICK VIEW](#) [CONTACT SELLER](#)


COMPUTER CLUB SHIRT
Category: clothes
Condition: fair
\$ 200
[QUICK VIEW](#) [CONTACT SELLER](#)

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6. Search results

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GatorBay

Welcome ajinkya! Sell Messages My Items Logout

All Categories calculator

Home > Listings

Showing 1 results of "calculator"

sort: Newest ▼

CONDITION

- New
- Like New
- Good
- Fair
- Poor

PRICE RANGE

- Any price
- Under \$25
- \$25 - \$49.99
- \$50 - \$74.99
- \$75 - \$99.99
- \$100 or more

APPLY


OLD CALCULATOR
Category: electronics
Condition: good \$ 4
QUICK VIEW CONTACT SELLER

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7. Details Page

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GatorBay

Welcome ajinkya! Sell Messages My Items Logout

All Categories search items

< Back to previous page

old calculator



Condition good \$ 4

Description does its job

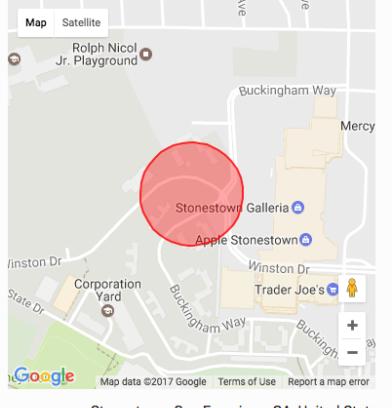
Category electronics

Date Added 05/14/2017

Seller ken

[CONTACT SELLER](#)

PICKUP LOCATION



Stonestown, San Francisco, CA, United States

[Map](#) [Satellite](#)

Rolph Nicol Jr. Playground, Buckingham Way, Mercy, Winston Dr, Trader Joe's, Corporation Yard, State Dr, Apple Stonestown, Stonestown Galleria, Winston Dr, Buckingham Way, Buckingham Way.

Map data ©2017 Google Terms of Use Report a map error

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8. Add Item page

The screenshot shows the GatorBay website's 'Add Item' page. At the top, there is a dark header bar with the text 'GatorBay' on the left and a navigation menu on the right containing 'Welcome ken!', 'Sell', 'Messages', 'My Items', and 'Logout'. Below the header is a search bar with the placeholder 'search items' and a magnifying glass icon. To the left of the search bar is a dropdown menu labeled 'All Categories'. The main content area has a light gray background and features a white 'Add Item' form. The form fields are as follows:

- Title: An input field.
- Price (\$): An input field.
- Description: A text area.
- Location: An input field containing 'SFSU'.
- Category: A dropdown menu currently set to 'books'.
- Condition: A dropdown menu currently set to 'fair'.
- File: A file input field with the placeholder 'Choose File' and the message 'No file chosen'.

At the bottom right of the form is a large, rounded rectangular button labeled 'ADD ITEM'.

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9. My Items Page

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GatorBay

Welcome ken! Sell Messages My Items Logout

All Categories search items Q

My Items

	Price	Description	Actions
	\$200	Computer Club Shirt Computer Shirt	View Messages Edit Remove
	\$4	old calculator does its job	View Messages Edit Remove
	\$25	Sony headphones Still good	View Messages Edit Remove

Page 1 of 1, showing 3 record(s) out of 3 total
< previous next >

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10. Message using modal

The screenshot shows the GatorBay website interface. A modal window is open in the center, titled "CONTACT ken". It contains fields for "Subject" and "Message", with "SEND" and "CANCEL" buttons at the bottom. The background shows a search bar with "sort: Newest" and a grid of item listings. The items include "SONY HEADPHONES" (\$25), "OLD CALCULATOR" (\$4), "MAC" (\$1300), "WINDOWS COMPUTER" (\$200), and "COMPUTER CLUB SHIRT" (\$200). At the bottom, there's a footer with links like "Links", "Company info", "Contact Us", and "Terms and Conditions".

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Welcome ajinkyal Sell Messages My Items Logout

GatorBay

All C

Home > Listings

Showing 5 results from all categories

CONDITION

- New
- Like New
- Good
- Fair
- Poor

PRICE RANGE

- Any price
- Under \$25
- \$25 - \$49.99
- \$50 - \$74.99
- \$75 - \$99.99
- \$100 or more

APPLY

CONTACT ken

for Sony headphones

Subject _____

Message _____

SEND CANCEL

SONY HEADPHONES

Category: books
Condition: fair \$ 25

QUICK VIEW CONTACT SELLER

OLD CALCULATOR

Category: electronics
Condition: good \$ 4

QUICK VIEW CONTACT SELLER

MAC

Category: electronics
Condition: fair \$ 1300

QUICK VIEW CONTACT SELLER

WINDOWS COMPUTER

Category: electronics
Condition: poor \$ 200

QUICK VIEW CONTACT SELLER

COMPUTER CLUB SHIRT

Category: clothes
Condition: fair \$ 200

QUICK VIEW CONTACT SELLER

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11. Reply to Messages Page

The screenshot shows the GatorBay application interface. At the top, there is a dark header bar with the text "GatorBay" on the left and navigation links "Welcome ken!", "Sell", "Messages", "My Items", and "Logout" on the right. Below the header is a search bar with the placeholder "search items" and a magnifying glass icon. A dropdown menu labeled "All Categories" is visible next to the search bar. The main content area has a title "Reply to Message". Below the title is a table with four columns: "Message", "Date Sent", "Buyer", and "Recipient". A single row of data is shown: "from result page modal", "5/20/17, 9:07 PM", "ken", and "ben". Under the "Message" column, there is a text input field with the placeholder "Message" and a "REPLY" button. At the bottom of the page, there is a footer section with the company name "TheGatorBay" and a brief description: "TheGatorBay is a unique website designed and developed by San Francisco State students to cater their needs for buying and selling items." To the right of the description is a "Links" section containing links to "Company info", "Contact Us", and "Terms and Conditions". The footer also includes a copyright notice: "© 2017 GatorBay".

3. Workbench Screen-Shots

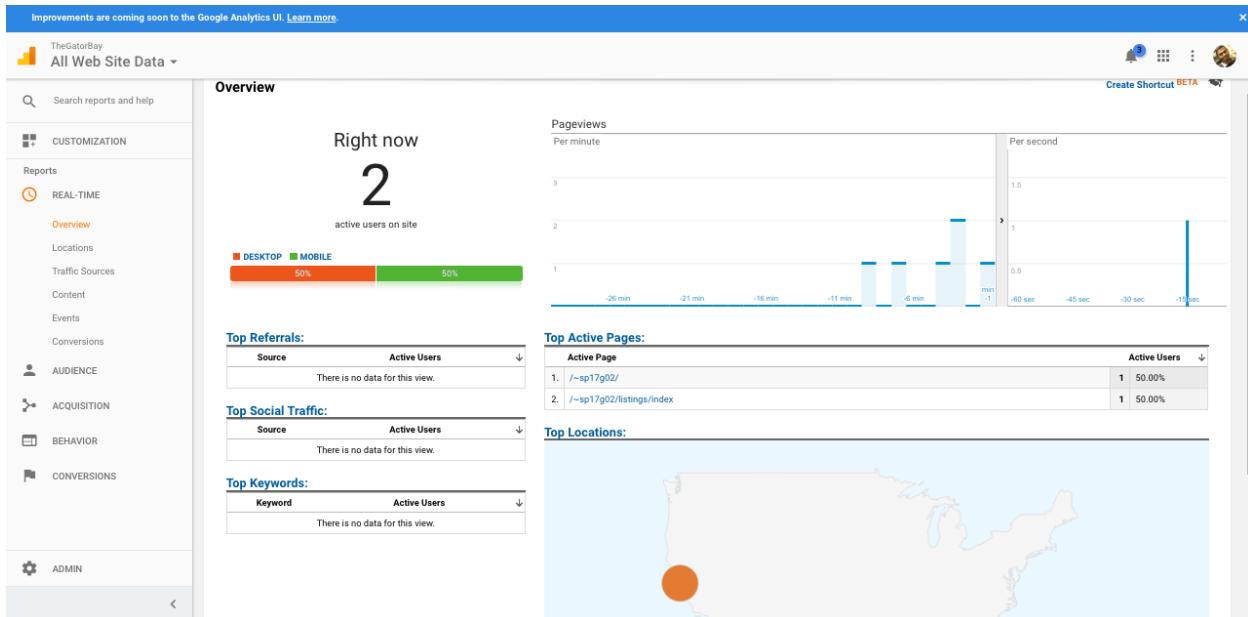
The screenshot shows the MySQL Workbench interface. On the left, there's a sidebar with sections for MANAGEMENT (Server Status, Client Connect, Users and Privileges, Status and Sync, Data Export, Data Import/Export), INSTANCE (Startup / Shutdown, Server Logs, Options File), PERFORMANCE (Dashboard, Performance, Performance), and SCHEMAS (Tables, registered_users). The main area has tabs for Query 1 through SQL File 11. A query window is open with the following SQL:

```
select * from registered_users;
```

The results grid displays the following data:

username	password	is_admin	is_active	email	date_created
admin	\$2y\$10\$Jzm6Wu7KN9mW71fAFBBhHeGJUXd...	0	1	idd@mail.sfsu.edu	2017-05-21 01:24:47
ajinkya	\$2y\$10\$KgsGhAGeok5PlNc2FileYupstmSYEgy...	0	1	ajinkya@sfsu.edu	2017-05-21 01:26:13
ben	\$2y\$10\$57AenT78faNxGTndz6DuaZbIJK...	0	1	ben@mail.sfsu.edu	2017-05-21 01:36:59
jerry	\$2y\$10\$uA2wZspN4wyXbPUJlVldOIJORSE...	0	1	jerry@mail.sfsu.edu	2017-05-21 01:51:14
ken	\$2y\$10\$Av7bR29h028Ehky5o5aChesvQ14zdl...	0	1	ken@mail.sfsu.edu	2017-05-21 01:53:39
kevin2	\$2y\$10\$syuEZt20.YVFN/IS2R8fJfItz.741kWa...	0	1	kevin2@mail.sfsu.edu	2017-05-21 03:24:47
yello	\$2y\$10\$Jh8R7qN4ytdvnlRwDv2iJyXR0x4As...	0	1	yello@sfsu.edu	2017-05-21 05:25:52

4. Google Analytics Plot



5. Team Member Contributions

Team member contributions in the form of emails can be found below: -



Ajinkya Sanjay Chalke

Mon 5/22/2017 2:01 PM



Reply all | ▾

To: Ivan Wesley Yu; Thao Luu; Bradley Kwan Ng; Jerry Jia Au-Yeung;
David Edgardo Rodriguez ↗

Hey Guys,

I have been responsible for the following contributions to the project.

Held the role of Team lead.

Implementing Google Maps

Implementing Google Places API for autocomplete address bar.

Implementing Google analytics.

Helped in fixing bugs.

Responsible for Milestone documents.

I have at least 23 commits on GitHub.

Regards,

Ajinkya Chalke

+1 (415) 966-5759

<https://ajinkyachalke.xyz>

CSC 648-848 Team Members Contributions List Group 2



Ivan Wesley Yu

Mon 5/22/2017 12:35 PM



Reply all | ▾

To: Ajinkya Sanjay Chalke; Thao Luu; Bradley Kwan Ng; Jerry Jia Au-Yeung;

David Edgardo Rodriguez ↗

For the project, I was responsible for implementing/helping implement:

- messaging through the quickviews and on conversations page

- inbox of the user

- displaying most recent items on homepage

- dashboard functionalities such as providing links to messages associated with the item, removing the item from the dashboard, editing the item.

- initial layout of dashboard with images

- thumbnails

- category dropdown for category filters

- adding images in item upload, setting maximum file size for images

- helped with placement of cards for the items in results page.

- search bar functionalities such as saving the result keyword after searching, searching through titles and descriptions.

- some login functionalities such as making logged-in user's username accessible in all pages.

- back to search button

- helped plan and update database design

- helped in documenting all milestones

CSC 648-848 Team members contribution for group 02



JA

Jerry Auyeung <jeerraay@gmail.com>

Sun 5/21/2017 5:58 AM



| v

I'm just going to reply here.

I created the skeleton of the homepage and registration. Fixed some of the smaller UI issues. Edited the M1 document.



BN

Bradley Ng <bradley.kwan.ng@gmail.com>

Sun 5/21/2017 5:43 AM



Reply all | v

To: Thao Luu; Ivan Wesley Yu; Jerry Jia Au-Yeung; Ajinkya Sanjay Chalke



I created the pages linked in the footer, helped with the back to search, and edited the layout of the sell page, also checked for bugs and documented them.



TL

Thao Luu

Sat 5/20/2017 11:53 AM



Reply all | v

To: Ajinkya Sanjay Chalke; Ivan Wesley Yu; Jerry Jia Au-Yeung; Bradley Kwan Ng; David Edgardo Rodriguez



I was responsible for the design and front-end aspects of the project. I designed the mockups of the website and modified it when there was an issue. I implemented most of the front-end codes on all the pages and made 26 commits on the team's GitHub.

-Thao

David Rodriguez's contribution: -

- 1.Implemented the initial website structure.
- 2.Implemented the Search and filtering functionalities.
- 3.Helped in Login and Registration functionalities.
- 4.Has at least 126 commits on GitHub.
- 5.Was responsible for QA.

6. Major Challenges

There were many challenges faced by the team. Ranging from managing time to understanding the completely new framework of CakePHP. Some of the major challenges which the team faced are listed below.

A. Framework issues: -

The CakePHP framework is an excellent framework having many pre-built functions thus reducing the efforts required to code these from scratch but at the same time the documentation present online for this framework isn't comprehensive enough. Furthermore, the shared knowledge present on stack overflow pertaining to CakePHP is also very old and hard to find. To handle this problem, the team had to put in extra effort in figuring out the know how of CakePHP, mainly by experimentation and following the tutorials given in the official CakePHP documentation, before implementing its functionalities.

B. Blob decision: -

Although using the file system to save the listings images was an easy option, the team wanted to learn and implement the concept of storing Binary Large Objects in database. This is why, the team went ahead and made the decision of using Blobs. The team's Tech Lead put in efforts in understanding and implementing Blobs in the website. This was then implemented all over the website, including but not restricting to the QuickView modal.

Most of the challenges faced by the team were handled with collaborative team effort.