



BARTER HUB

Final Project

The BB-Team



Kai
Year: Sophomore
Favorite Quote:
“Do or do not.
There is no try”



Jaskaran
Year: Senior
Favorite Quote:
“Whenever I’m about
to do something, I
think would an idiot
do that? If they would,
I do not do that thing”



John
Year: Senior
Favorite Quote:
“People say
nothing is
impossible, but I
do nothing every
day”



Michelle
Year: Sophomore
Favorite Quote:
“There is no
substitute for hard
work, NONE”



Aren
Year: Junior
Favorite Quote:
“And why do we
fall? So we can
learn to pick
ourselves up”



Christian
Year: Sophomore
Favorite Quote:
“Now you see me,
now you don’t, I’m
the magic man”

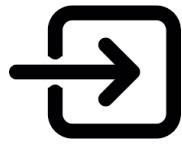
The Project

BarterHub is a digital marketplace where users can arrange to trade items with other people in their local community. Think craigslist without money.

An idea to change the world...



Features



LOGIN & CREATE USER

A user is able to login securely into our application or can sign up to become a part of the community!



SETTINGS

A user can update their personal settings for their profile including their username, password, and location



INVENTORY & STOREFRONT

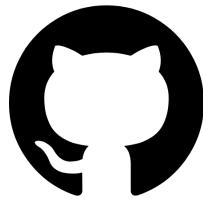
The storefront displays all items currently for sale by every user based on their geolocation



SEARCH ITEM

The search functionality allows users to find items based on criteria they type in our search field

Technology



GitHub
VCS Repository



Firebase
Hosting & Database



Trello
Project Tracker



Atom
Text Editor



Bootstrap
Library



jQuery
Library



Google Drive
Documentation



VS Code
IDE



GitHub
VCS Repository

- Rating: 
- Uses
 - Version Control
 - Collaboration
 - Backup
- Challenges
 - Merging



Firebase Hosting & Database

- Rating: 
- Uses
 - Hosting
 - Database
 - Security
 - Login
- Challenges
 - Pulling from database
 - Poor documentation
 - Beginner mistakes
 - Less customization / ownership



Trello
Project Tracker

- Rating:

- Uses

- Organization
- Scheduling
- Tracking

- Challenges

- Changes too frequent
- Not used effectively



Atom
Text Editor

- Rating: 
- Uses
 - Code
 - Teletype
 - GitHub Integration
- Challenges
 - Issues with pulling from GitHub



Bootstrap
Library

- Rating: 
- Uses
 - Beautify HTML
 - Forms
- Challenges
 - Customization difficulties
 - Copy and paste



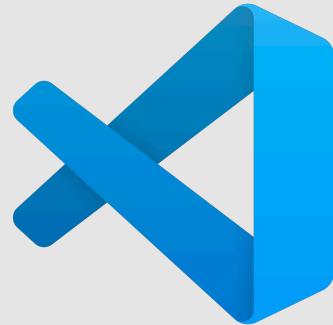
jQuery
Library

- Rating: 
- Uses
 - Write less, do more
 - Ease of use
- Challenges
 - Learning how to use
 - Integration
 - Lack of documentation

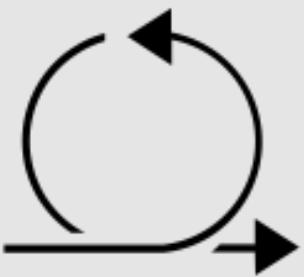


Google Drive
Documentation

- Rating: 
- Uses
 - File storage in the cloud
 - Documentation / Logging
 - Collaboration
- Challenges
 - None, Google is A+



- Rating: 
- Uses
 - Code
 - GitHub Integration
- Challenges
 - Not everyone uses VS



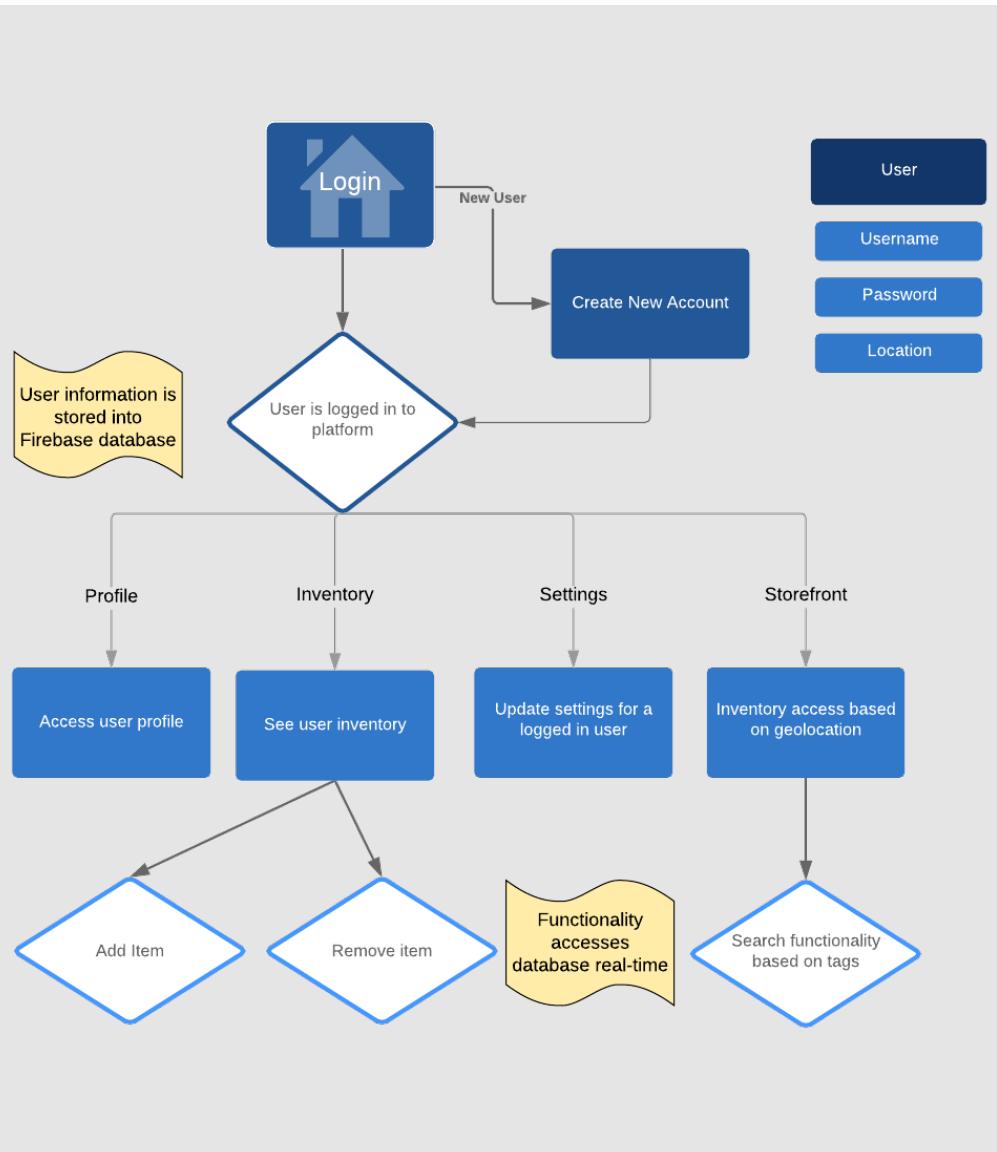
Agile Methodology

- Flexibility
 - Allowed evolution of our project idea
 - Changing requirements based on changing needs/goals
 - Several iterations of our project
- Sprints
 - Aligned with class structure well
- Frequent communication
 - Scrums to discuss progress and challenges / blocks
 - Weekly face-to-face for effective and efficient communication



Challenges

- Tier 1
 - Learning Firebase
 - Login authentication
- Tier 2
 - JavaScript and Firebase conversion
 - Asynchronous / Synchronous calls
 - Time management
 - Overreaching / overzealous ideas
- Tier 3
 - Merging
 - Switching technologies
 - GitHub issues (version control)



Detailed Overview



Logging in / Creating an Account

The user first logs in using their username and password. If they do not have an account, they will be prompted to create a new one. All user's information will then be stored into a secure database.



Inventory & Storefront

The storefront displays all the inventory using the geographic location of the specific user.



Searching

From the storefront, a user can search for items based on the criteria they enter into the search field. The geolocation is automatically used as a criteria as well.



Profile

The profile will display the user's information including recently looked at items, rating, contact info, and more! There is also a work-in-progress messaging service integrated into the profile page.



Settings

A user can update their user settings such as location, username and password from the user settings page.



Stored in Database

The account information for each user, item, and more will be stored in our Firebase database for secure storage and easy access.

Demo of BarterHub!

<https://barterhub-3c37c.firebaseio.com/>