



Sprint 1 Planning Document

02.05.2018

Team 26

Craig Ruble

William O'Malley

Tanner Ward

Ashwin Gokhale

Jialu Gu

Sprint Overview

During this sprint we aim to get the primary functionality working. The front end will be focused on creating an index page, home page, and user profile pages. They will also be implementing basic listing creating and deleting. The backend will be focusing on providing APIs to create and edit profiles, posts, and messages. They will provide Firebase authentication and create the gateway between the user interface and the data in the database through a Restful API.

Scrum Master: Craig Ruble

Meeting Plan: Tuesday/Thursday 2:30 on Discord voice chat/Wednesday 2:30-3:00 with TA

Risks and Challenges: This sprint consists of the main functionality of the project; because we are implementing mainly core features, if one of these happen to not get completed or behind, it pushes a lot of work off in to other sprints that require the core functionality to be running as described. For the front end, clarity and usability is goal, so extra time and effort will need to be taken to ensure this. For the back end, functionality, security, and ease of use is goal, which requires clear, easily accessible API endpoints to query and manipulate data.

Current Sprint Detail

User Story #1

As a user, I would like to register an account on Bartr using Firebase authentication to be able to create a profile.

#	Description	Time (hours)	Team	Owner
1	Register on Bartr through Firebase	8	Front	Craig
2	Create static top navigation bar	2	Front	Craig
3	Create section for registering	4	Front	Craig
4	Create section for logging in	4	Front	Craig
5	Create a welcome section	2	Front	Craig
6	Unit tests	2	Front	Craig

Acceptance Criteria:

- Given that the index page is implemented correctly, when the user scrolls the welcome/login/register/about us, the navigation bar will stay static on top.
- Given that the pages are created correctly, when the user clicks a link on the top, it will shift pages to the appropriate one.
- Given that Firebase auth is implemented correctly, when the user clicks the register button, the user will be redirected to the home page.

User Story #2

As a developer, I want to ensure that no two users register with the same email, so that the website doesn't have duplicate users.

#	Description	Time (hours)	Team	Owner
1	Check with backend for duplicate email	3	Front	Craig
2	Display error when duplicate/Redirect if not	1	Front	Craig
3	Unit tests	2	Front	Craig

Acceptance Criteria:

- Given that the backend functions work correctly on checking if an email already exists when creating an account, a user shouldn't be able to register with the given information.
- Given that the implementation for checking if an account has already been registered, when the user attempts to register an account with an email already in use, an error message will pop.
- Given that the implementation for checking if an account has already been registered, when the user attempts to register with an email that isn't in use, the user will be redirected to the home page.

User Story #3

As a user, I would like to login in to Bartr to access my profile, manage my listings, and search for goods in my area.

#	Description	Time (hours)	Team	Owner
1	Create top navigation bar	5	Front	William
2	Implement buttons for the navigation bar	6	Front	William/Craig
3	Create filter tools	5	Front	William
4	Create vertical column for listings feed (create stubs for listings until they are implemented)	4	Front	William
5	Create form for creating new listings	3	Front	William
6	Unit tests	2	Front	William

Acceptance Criteria:

- Given that login is implemented correctly, when a user logs in, then the home page with the user's information will display accordingly.
- Given that the top navigation bar is implemented successfully, when a user clicks a button on the navigation bar, it will redirect to the appropriate page.
- Given that the navigation bar is successfully created, when a user interacts with the filter tools and clicks update, the appropriate posts will be displayed.

User Story #4

As a user, I would like to view my own profile, so that I can access my own listings and account information.

#	Description	Time (hours)	Team	Owner
1	Create navigation bar	4	Front	William
2	Create heading of profile photo, name, and contact information	6	Front	William
3	Create a feed to display that user's listings	6	Front	William
4	Create section for reviews of that profile	4	Front	William
5	Black box testing	1	Front	William

Acceptance Criteria:

- Given that the the user profile page is created successfully, when the user clicks on their profile link, then the user's profile page will be displayed.
- Given that the user profile feed information is displayed correctly, when the user is on their own profile page, they will be able to view a feed of their latest listings.
- Given that the user information part of the user page is implemented right, when the user is on their own profile page, they will be able to view their name, contact information, and profile picture.

User Story #5

As a developer, I would like to query user posts based on geolocation of each post, so I can display all listings around by a specific radius.

#	Description	Time (hours)	Team	Owner
1	Create an API controller for handling queries of posts	10	Backend	Ashwin
2	Store the query parameters in the redux store and use it to query over HTTP	10	Frontend	Ashwin
3	Handle proper authentication when handling post queries	10	Backend	Ashwin
4	Unit tests	2	Backend	Ashwin

Acceptance Criteria:

- Given that the API endpoint is implemented correctly, when the user requests posts, they should receive the posts in a given radius of their current geolocation
- Given that the header is implemented correctly, when the user selects their geolocation and search radius, the redux store will save the location setting.
- Given that the Firebase user auth is implemented correctly, when the user queries for local posts, the API endpoint will send an error if there is no authentication token.

User Story #6

As a user, I would like to set my viewing radius of other offers, so I can limit how far I am searching from me.

#	Description	Time (hours)	Team	Owner
1	Enable geo-queries library to query posts	10	Backend	Ashwin
2	Create a UI for setting data	10	Frontend	Ashwin
3	Store data both client and server side	10	Back/Front end	Ashwin
4	Unit tests	2	Backend	Ashwin

Acceptance Criteria:

- Given that the API controller for handling queries of posts is implemented correctly, when the user provides parameters for querying posts, the GeoFire should return the posts according to the given parameters.
- Given that the header is implemented correctly, when the user clicks on the location setting, an input box is rendered and the user can select their location and radius.
- Given that the header is implemented correctly, when the user selects their location and radius, the default location and radius are saved in the DB and in the redux store.

User Story #7

As a user, I would like to post a listing on Bartr, so others can see what I have to offer.

#	Description	Time (hours)	Team	Owner
1	Create post page	10	Front	Jialu
2	photo uploading system	8	Front	Jialu
3	Description field	4	Front	Jialu
4	Store data to server side	10	Back/Front	Jialu
5	Unit tests	2	Back/Front	Jialu

Acceptance Criteria:

- Given that the the user profile page is created successfully, when the user go to their profile page, then the use can view their posts.
- Given that the server side is working, when the user create a post, then the post data will be stored to server side.
- Given that the home page is created successfully, before the user click the post button, they can click the cancel button to cancel the post.

User Story #8

As a user, I would like the ability to delete my listings, so that its show the barter has been completed or the offer exists anymore.

#	Description	Time (hours)	Team	Owner
1	Delete data in client	5	Front	Jialu
2	Delete data in server	5	Back/Front	Jialu
3	Create a confirm dialog for deleting	5	Front	Jialu
4	Unit tests	1	Back/Front	Jialu

Acceptance Criteria:

- Given that the server side is working, when the user delete a post, then the corresponding post data in the server side will also be deleted.
- Given that the user profile page is created successfully, when the user go to their profile page, then the user cannot see their deleted posts.
- Given that the user profile page is created successfully, when the user click the delete button, then the user have to confirm the deleting on the confirm dialog.

User Story #9

As a user, I would like to send another users a message, so I can easily communicate with the other person involved in the barter.

#	Description	Time (hours)	Team	Owner
1	Set up Firebase Cloud Messaging (FCM)	5	Backend	Tanner
2	Add message handling	10	Backend	Tanner
3	Build server protocol to handle sending logic	5	Backend	Tanner
4	Unit tests	2	Backend	Tanner

Acceptance Criteria:

- Given that the FCM is set up correctly, when a user sends a message it should be stored in the firebase cloud messaging database.
- Given that the message handling works correctly, each user should receive all messages from other users directed towards them.
- Given that our app server works correctly, users should be able to send and receive multiple messages from other users continuously.

User Story #10

As a user, I would like to view my messages, so that I can read and manage conversation with other users.

#	Description	Time (hours)	Team	Owner
1	View messages on UI	8	Front/Back	Tanner
2	Create message notifications	4	Front/Back	Tanner
3	Delete messages	3	Front/Back	Tanner
4	Unit tests	2	Backend	Tanner

Acceptance Criteria:

- Given that the messaging UI application is set up correctly, when users click on the mail icon, then they can view their messages.
- Given that the FCM is set up correctly, when a users receives a message, then they should be notified.
- Given that the messaging UI is working correctly, when a user deletes a message, then it will be removed from their messages log.

Remaining Backlog

- ~~1. As a user, I would like to register an account on Bartr using Facebook authentication to be able to create a profile.~~
- ~~2. As a developer, I want to ensure that no two users register with the same email, so that the website doesn't have duplicate users.~~
- ~~3. As a user, I would like to login in to Bartr to access my profile, manage my listings, and search for goods in my area.~~
4. As a user, I would like to manage my account information, so that I can have the ability to change my information.
5. As a user, I would like to view other's profiles to view their listings and services they offer.
- ~~6. As a user, I would like to view my own profile, so that I can access my own listings and account information.~~
- ~~7. As a user, I would like to post a listing on Bartr, so others can see what I have to offer.~~

8. As a user, I would like to view a feed of listings in my area to browse services and goods I can exchange for.
9. As a user, I would like to rate my experience with other users, so I can tell if other users offer good services.
10. As a developer, I want to ensure users can't rate another user more than once, so that they don't inflate or deflate another user's rating.
11. As a user, I would like to search for specific goods in my area, so I can easily find what I am looking for.
- ~~12. As a user, I would like to set my viewing radius of other offers, so I can limit how far I am searching from me.~~
- ~~13. As a user, I would like to send another user a direct message, so I can easily communicate with the other person involved in the barter.~~
- ~~14. As a user, I would like to view my messages, so that I can read and manage conversation with other users.~~
- ~~15. As a user, I would like the ability to delete my listings, so that its show the barter has been completed or the offer exists anymore.~~
16. As a user, I would like the ability to edit any of my listings, so that I can correct any information that is wrong or edit any information on the listing.
17. As a user, I shouldn't be able to edit anyone else's listings, so that no one else can edit my listings and vice versa.
18. As a user, I shouldn't be able to remove other's listings, because that is beyond a general users scope on a social media site.
19. As a user, I should be able to report another user so that I can alert of any users or listings that aren't appropriate.
20. As a user, I want to be able to delete my account, so it doesn't exist on the website anymore.
21. As a user, I want the ability to choose what contact information I want to be public so I can protect myself from malicious calls/texts/emails not relevant to my listing.
22. As a user, I want the ability to tag the item/service I list and what I am looking for, so others know briefly what the listing entails to at a quick glance.
23. As a user, I would like to filter items in my listings feed by tag, so I can reduce the clutter of the listings to what I'm looking for specifically.
24. As a user, I would like to be able to send an email for support assistance, so I can obtain help with issues beyond a user's control.
25. As a user, I would like to view a support/troubleshooting page, so I can attempt to solve my problem with the common issues and solutions provided or find contact information for additional help.

26. As a user, I would like to request my password with the paired email when I forget my login, so I can log in to my account again.
- ~~27. As a developer, I would like to query user posts based on geolocation of each post, so I can display all listings around by a specific radius.~~
28. As a user, I would like to see another user's public contact information, so I that I know how to contact them for exchanges (unless hidden by user, must ask via direct message for public contact information).
29. As a user, I would like to apply to be a verified barterer if my trades and rating meet the requirement, so that others can visibly see, as a barterer, I can be highly trusted.
30. As a developer, I want to create a system for managing, tracking, and executing transactions between users so that I can automate the handling of transactions.