



Sprint 2 Planning Document

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Sprint Overview

Scrum Master: Nathan Stern

Meeting Plan: Tuesday/Sunday @ 10:30pm

Risks and Challenges:

One challenge that we ran into that we hope to fix was choosing tasks that ended up blocking other group members from completing their tasks. In this sprint, we need to choose tasks that will not block other members, such as people working on a front end task that requires an endpoint that has not been made yet. We will remedy this by assigning related tasks to the same group member. There is some risk that we will take longer than we predict to complete tasks, so there will be some that end up unfinished. There is risk that we will run into unpredictable bugs that we will then need to address.

Current Sprint Detail

User Story #8 (From Sprint 1)

As a user, I need to be able to register an account

#	Description	Estimated Time	Owner
1	Add password hashing to the register functionality on the web app	1 hour	Adil

Acceptance Criteria:

- Given we have a register account page, when a user attempts to register an account, a request is made to the add user endpoint
- Given we have a register account page, when a user successfully registers an account, they are redirected to the home page
- Given we have a register account page, when a user fails to register an account, an error message is displayed

User Story #9 (From Sprint 1)

As a user, I need to be able to log into my account

#	Description	Time Estimate	Owner
1	Add login with tokens	1hr	Adil

Acceptance Criteria:

- Given we have a login page, when a user attempts to log into an account, a request is made to the login endpoint
- Given we have a login page, when a user successfully logs into an account, they are redirected to the home page
- Given we have a login page, when a user fails to log into an account, an error message is displayed

User Story #10 (From Sprint 1)

As a user, I need to be able to view my profile

#	Description	Estimated Time	Owner
1	Create a profile page on the mobile app populated with user data	5hrs	Brian
2	Get the user's profile picture from S3 on the mobile app	3hrs	Ryan
6	Get the user's profile picture from S3 on the web app	3hrs	Ryan

Acceptance Criteria:

- Given we have setup the profile page, we should be able to reach the profile page from the homepage
- Given we have setup the profile page, we should be able to see user details on the profile page
- Given we have setup the profile page, we should be able to reach the homepage from the profile page

User Story #11 (From Sprint 1)

As a user, I need to be able to edit my profile

#	Description	Time Estimate	Owner
2	Add the ability to edit fields of the profile with error and success handling on the mobile app	6hrs	Brian

Acceptance Criteria:

- Given that we have a profile page, we should be able to hit an edit button and see editable fields
- Given that we have a profile page, we should be able to submit changed fields and see them get updated
- Given that we have a profile page, if we upload a new profile picture the old one should get deleted

User Story #14 (From Sprint 1)

I need to be able to edit the posts that I make on a mobile app

#	Description	Time Estimate	Owner
1	Add an edit button to a user's posts and let the user edit the post when it is clicked on the mobile app	3hrs	Izzy
2	Add a save button that saves changes made on the mobile app	3hrs	Izzy

Acceptance Criteria:

- Given that we have implemented the post edit page correctly, submitting the edits should update the entry in the database.
- Given that we have implemented the save changes button correctly, the post should be updated with changed fields
- Given that we have implemented the edit post button correctly, the post should have fields that are able to be edited

User Story #15 (From Sprint 1)

I need to be able to delete my own posts

#	Description	Estimated Time	Owner
1	Add a delete button for the user's posts that deletes that post and ensure error/success is handled on the mobile app	3hrs	Ryan

Acceptance Criteria:

- Given we can delete posts, when the delete button is clicked, a request is made to the delete post endpoint
- Given we can delete posts, when a delete request is successful, the post is removed from the interface
- Given we can delete posts, when a delete request fails, an error message is displayed

User Story #18

As a user, I need to be able to view other people's profiles from 'view all posts'

#	Description	Estimated Time	Owner
1	Create an endpoint for getting profile page data which takes an array of user ids that you want profile data for	4hrs	Brian
2	Posts should have a link to their author's profile on the web app	2hrs	Adil
3	Posts should have a link to their author's profile on the mobile app	2hrs	Brian

Acceptance Criteria:

- Given we have an endpoint for getting profile page data, when a valid request is made to the endpoint, a list of limited profile data is returned
- Given we only get necessary profile data from the backend, when another user's profile page is viewed on the mobile app, we can see that user's profile page
- Given we only get necessary profile data from the backend, when another user's profile page is viewed on the web app, we can see that user's profile page

User Story #19

As a user, I need to be able to create trips

#	Description	Estimated Time	Owner
1	Add an endpoint for getting by id, getting all, getting by criteria, and creating trips including minimal testing	6hrs	Izzy
2	Make a recent trip page on the mobile app	3hrs	Izzy
3	Make a page showing the logged in user's posts on the mobile app	3hrs	Izzy
4	Make a recent trip page on the web app	3hrs	Izzy
5	Make a page showing the logged in user's posts on the web app	3hrs	Izzy
6	Add a button to make a trip on the mobile app	5hrs	Izzy
7	Add a button to make a trip on the web app	5hrs	Izzy

Acceptance Criteria:

- Given we have an endpoint for creating a trip, when a valid request is made to the endpoint, we get back the trip data
- Given we receive trip data from a create trip request, when we receive that data, the apps local trip data is updated
- Given a user creates a trip, when the request returns, the user is redirected to the trip page

User Story #20

As a user, I need to be notified of pending requests

#	Description	Estimated Time	Owner
1	Add a notification page that is populated with data on the mobile app	4hrs	Brian
2	Add a notification page that is populated with data on the web app	4hrs	Adil
3	Be able to accept a request from the notification page on the mobile app	4hrs	Brian
4	Be able to accept a request from the notification page on the web app	4hrs	Adil

Acceptance Criteria:

- Given we have a notification page, when a user goes to that page, they can see any pending requests on it
- Given a user has notifications, when they view them on the notification page, they can accept or deny the request
- Given a user accepts or denies a request, when they accept or deny it, the notification is removed from the notification page

User Story #21

As a user, I need to be able to join trips

#	Description	Estimated Time	Owner
1	Update the trip model to have a list of requests	1hr	Ryan
2	Add an endpoint for joining a trip with minimal tests	3hrs	Ryan
3	Add a button to a trip display that lets a user request to join a trip on the mobile app	3hrs	Justin
4	Add a button to a trip display that lets a user request to join a trip on the web app	3hrs	Ryan

Acceptance Criteria:

- Given we have an endpoint for joining a trip, when a valid request is made to the endpoint, the trip is updated with the user id of the requesting user in the requests list
- Given we have a button to request to join a trip, when a user clicks that button, a request should be made to the join trip endpoint
- Given there are values in the requests list of a trip, when the creator of a trip opens/refreshes their app, they should see the request in their notification page

User Story #22

As a user, I need to be able to leave a trip

#	Description	Estimated Time	Owner
1	Add an endpoint to remove a user from a trip including minimal test	3hrs	Ryan
2	Add a button in the mobile application to leave a trip	3hrs	Justin
3	Add a button in the web application to leave a trip	3hrs	Ryan

Acceptance Criteria:

- Given that we have an endpoint for removing users from a trip, when a valid request is made, the requested user should be removed from the indicated trip
- Given that the remove request was successful, when a user views the information page about a trip on the mobile app, the user should be removed from the list
- Given that the remove request was successful, when a user views the information page about a trip on the web app, the user should be removed from the list

User Story #23

As a user, I need to be able to add other people as friends

#	Description	Estimated Time	Owner
1	Update the user model to include a list of friend requests	1hr	Brian
2	Add an endpoint to make a friend request	3hrs	Brian
3	Add a button that sends a friend request on the web app	3hrs	Adil
4	Add a button that sends a friend request on the mobile app	3hrs	Brian
5	Add a list of friends on the web app	3hrs	Adil
6	Add a list of friends on the mobile app	3hrs	Brian

Acceptance Criteria:

- Given that we have an updated user model, when the user accesses the applications, there should be a list of friend requests available.
- Given that we have a button that sends a friend request, when the button is pressed, it should send a signal to the other user that a request to be a friend has been sent.
- Given that we have a button that accepts an incoming friend request, when that button is pressed, the incoming friend is added to the user's list of friends.
- Given that we have a button that declines an incoming friend request, when that button is pressed, the incoming friend is not added to the user's list of friends and is deleted on the request list.

User Story #24

As a user, I need a message page with a summary of all my conversations

#	Description	Estimated Time	Owner
1	Create an endpoint to make a message board with minimal tests	4hrs	Nathan
2	Create a message page that shows a summary of all message boards on the mobile app	9hrs	Nathan
3	Create a message page that shows a summary of all message boards on the web app	9hrs	Adil
4	Add a button to create a message board on the mobile app	3hrs	Nathan
5	Add a button to create a message board on the web app	3hrs	Adil

Acceptance Criteria:

- Given that we have an endpoint for creating a message board, when a valid request is made to that endpoint, we receive back message board data
- Given that we have a message page, when a user goes to the page, they see a summary of all the message boards they are associated with
- Given that a request is made to the create message board endpoint, when the request is processed, each user associated with the message board is updated to include the message board id

User Story #25

As a user, I need to be able to have conversations

#	Description	Estimated Time	Owner
1	When a user clicks one of the message summaries in the message page, they are brought to that message board's page on the mobile app	3hrs	Nathan
2	When a user clicks one of the message summaries in the message page, they are brought to that message board's page on the web app	3hrs	Ryan
3	Add a text input for sending messages that updates the display on the mobile app	7hrs	Nathan
4	Add a text input for sending messages that updates the display on the web app	7hrs	Ryan
5	Add the username that sent the message above the message on the mobile app	2hrs	Nathan
6	Add the username that sent the message above the message on the web app	2hrs	Ryan

Acceptance Criteria:

- Given that a user can see all their message boards on a message page, when a user clicks on one of the message boards, they are redirected to a view of that message board
- Given that a user sends a message, when they hit send, the message is added to the message board display
- Given a message board contains messages, when there is a message, it is accompanied by the username of that user who sent it

User Story #26

As a user, I need to be able to add specific people to a group

#	Description	Estimated Time	Owner
1	Update the user model to have a list of trip join requests	1hr	Justin
2	Add an endpoint to invite a user to a trip	3hrs	Justin
3	Add a button to a trip view that lets you request a person to join that trip on the mobile app	3hrs	Justin
4	Add a button to a trip view that lets you request a person to join that trip on the web app	3hrs	Justin

Acceptance Criteria:

- Given that we have an endpoint for inviting users to a trip, when a valid request is made to that endpoint, we receive back success/error of the request
- Given we have a button for inviting a user from a trip, when a user presses that button, a request is made to invite user to a trip endpoint
- Given we have a button for inviting a user to a trip, only the owner of that trip can send the invite request to the trip endpoint

User Story #27

As a user, I need to be able to remove people from a group

#	Description	Estimated Time	Owner
1	Add an endpoint to remove a user from a group	3hrs	Justin
2	Add a button to the owner of the group's trip page to remove users on the mobile app	3hrs	Justin
3	Add a button to the owner of the group's trip page to remove users on the web app	3hrs	Justin

Acceptance Criteria:

- Given we have an endpoint for removing a user from a trip, when a valid request is made to that endpoint, the user is removed from that trip
- Given we have a button for removing a user from a trip, when a user presses that button, a request is made to the remove user from a trip endpoint
- Given we have a button for removing a user from a trip, when a user goes to a trip page, only the owner of that trip can see the remove user button

User Story #28

As a user, I need to be able to update sensitive fields in my profile like email and password

#	Description	Estimated Time	Owner
1	Add an endpoint to update sensitive user information	3hrs	Justin
2	When a user attempts to update password or email we prompt them for their old password on the mobile app	2hrs	Justin
3	When a user attempts to update password or email we prompt them for their old password on the web app	2hrs	Justin
4	When a password is updated the new password is hashed before sending an update request on the mobile app	1hr	Justin
5	When a password is updated the new password is hashed before sending an update request on the web app	1hr	Justin

Acceptance Criteria:

- Given we have an endpoint for updating sensitive fields, when a request is made to that endpoint, the user's password is verified
- Given a valid password is provided to the update sensitive field endpoint, when the request is processed, sensitive fields are updated
- Given an invalid password is provided to the update sensitive field endpoint, when the request is processed, sensitive fields are not updated

User Story #29

As a user, I need all my data to be loaded at app start

#	Description	Estimated Time	Owner
1	Load all data that is linked to the user when the app is started and refreshed on the mobile app	6hrs	Nathan
2	Load all data that is linked to the user when the app is started and refreshed on the web app userInfo, user messageBoards, user posts, user trips	6hrs	Adil

Acceptance Criteria:

- Given that we have endpoints for user linked data (trips, posts, etc.), when the app starts, those endpoints are called
- Given that we have endpoints for user linked data (trips, posts, etc.), when the app refreshes, those endpoints are called
- Given that requests are made to the user linked data endpoints, when the requests are completed, data is loaded into the app data classes

Remaining Backlog

Functional

1. User Account

As a user,

- ~~a. I need to be able to register an account~~
- ~~b. I need to be able to log into my account~~
- ~~c. I need to be able to view my profile~~
- ~~d. I need to be able to sign out of my account~~
- e. I need to be able to reset my password
- ~~f. I need to be able to edit my profile~~
- g. I would like to be able to login using third party authenticators like Google
- h. I would like to connect social media accounts to the profile
- i. I need to be able to verify my profile
- ~~j. I need to be able to update sensitive fields in my profile like email and password~~

2. System Features

As a user,

- a. I would like to be able to block an unwanted user from viewing my profile
- b. I would like to be able to report a user for inappropriate behavior
- ~~c. I need to be able to view other people's profiles from 'view all posts'~~
- d. I would like to get emails about special offers
- e. I would like to get reminders to my personal email
- f. I would like to get reminders to my personal phone number
- ~~g. I need to be notified of pending requests~~
- ~~h. As a user, I need to be able to add other people as friends~~
- ~~i. I need all my data to be loaded at app start~~

3. Posts

As a User,

- ~~a. I need to be able to post that I am looking to go on a trip to a location~~
- ~~b. I need to be able to view others' posts~~
- ~~c. I need to be able to edit the posts that I make~~
- ~~d. I need to be able to delete my own posts~~

4. Trips

As a user,

- ~~a. I need to be able to create trips~~
- ~~b. I need to be able to join trips~~
- ~~c. I need to be able to leave a trip~~
- ~~d. I need to be able to add specific people to a group~~
- ~~e. I need to be able to remove people from a group~~
- f. I need to be able to mute notifications from a specific group
- g. I would like to be able to see the total amount and my share of group costs
- h. I would like to be able to search for trips with filters for location and planned budget
- i. I would like to be able to have the trip budget broken down into categories
- j. I would like to get a trip summary with highlights of the trip
- k. I would like to share a trip summary on social media

5. Messaging

As a user,

- ~~a. I need a message page with a summary of all my conversations~~
- ~~b. I need to be able to have conversations~~

6. Multimedia Handling

As a user,

- a. I would like to be able to share photos/videos with my group
- b. I would like to be able to share particular photos/videos on social media
- c. I would like to be able to download uploaded photos

7. Meeting up with Users

As a user,

- a. I need to be able to share my location
- b. I would like to be able to see people in my area that I can meet up with
- c. I would like to be able to quickly get emergency contact information for local authorities
- d. I would like to have suggestions for safe meeting spots

8. Premium Users

As a premium user,

- a. I would like to be able to upload more photos than a standard user
- b. I would like to be able to control who sees me when searching
- c. I would like to be able to change the theme of the chat

9. Admin Features

As an admin,

- a. I need to be able to edit any user's posts
- b. I need to be able to delete any user's posts
- c. I need to be able to ban any user
- d. I need to be able to see user's posts
- e. I need there to be admin accounts to maintain a good environment

10. Core Infrastructure

As a user,

- ~~a. I need a running database for data to be stored in~~
- ~~b. I need a performant database schema so that requests are quick~~
- ~~c. I need a barebones web application~~
- ~~d. I need a barebones mobile application~~
- ~~e. I need a running RESTful API to service requests from the front end~~
- ~~f. I need API endpoints to service the frontend~~
- g. I need profiles and posts to be automatically verified by a bot to maintain a good environment
- ~~h. I need to have a way to store users' photos and videos~~

Non-Functional

1. Performance
 - a. I would like the application to run smoothly without crashing or lagging
 - b. I would like backend requests to be serviced in less than 1 second
 - c. I would like the backend to be able to handle at least 1000 concurrent requests
 - d. I would like the automated moderation bot to verify images and text in less than 3 seconds
2. Frontend Applications
 - a. I would like a web application built in ReactJS
 - b. I would like Android and iOS applications built from Flutter
3. Backend API
 - a. I would like an API built in NodeJS that follows RESTful principles
4. Database
 - a. I would like to be able to store user data in a MongoDB database
5. Security
 - a. I would like the API to restrict users from accessing data they don't have the right to access
 - b. I would like the database to be encrypted
 - c. I would like a compromised frontend application to not be able to expose user data
 - d. (If time allows) I would like the API to use tokens for user authentication
 - e. (If time allows) I would like the API to use HTTPS for all requests
6. Usability
 - a. I would like the application to be easy to understand/easy to find what you're looking for
 - b. I would like menus to not be overly nested
7. Appearance
 - a. I would like a clean aesthetically pleasing design that is attractive to young adults