



## Team 12 - CS 307 Sprint Overview

Project Name: Capsule

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### Sprint Overview

Our goal during this sprint is to set up a skeleton of the app where users can create/login to their account. They will also be able to add and remove friends, and view their friends in the friends tab. Users will also be able to set up the links to external services (spotify and instagram) for capsule generation later. Finally, Users will be able to navigate to the history and storyboard pages (functionality within these pages to be implemented in later sprints).

**Scrum Master:** Nathan Schneider

**Meeting Schedule:** Thursday @ 11:30 am / Saturday @ 3:00 pm

### Overview of Risks and Challenges

The challenge of this sprint will be figuring out how our system is going to work together. As we lay the base of our project, we will figure out how our client, server, and database all work together. Additionally, we will navigate the challenges of using three external APIs to provide login features and gather information. Laying the foundation of our application poses many challenges and risks that we must carefully navigate to ensure that future sprints and our project as a whole will be successful.

## User Stories

### User Story #1

**(1)** As a user, I would like to be able to log in/sign up via my Google account, so that the log in/sign up process goes faster.

#	Description	Estimated Time	Owner
1	Create a login screen in React Native and add a sign in with google button	2 Hrs	Kevin
2	Figure out API calls with Google Authenticator to allow users to sign in with google	4 Hrs	Evan
3	Sync email from Google Authenticator with our database	3 Hrs	Nathan
4	Check if user exists and continue to registration or main page	4 Hrs	Kevin
5	Debug and complete unit test for signing in with Google Authenticator	3 Hrs	Nathan
6	Format UI on profile page to look like the UI mockup	2 Hrs	Kevin

#### Acceptance Criteria

- Given that the UI is correctly implemented, when the user presses the login with google button, they will be directed to Google's authentication page.
- Given that our login system is set up correctly, when the user opens the app after initially registering, they should be taken straight to the main page.
- Given that the navigation is correctly implemented, when the user logs in with Google Authenticator the user will be directed to the registration page.

### User Story #2

**(2)** As a user, I would like to be able to create a username during registration, so that I can identify myself on the platform.

#	Description	Estimated Time	Owner
1	Create a functional "create username" box in React Native	1 Hr	Evan
2	Figure out how to store the username in the database (linked with google account info)	4 Hrs	Evan
3	Implement create username into profile display and other areas of the app where it will be seen.	4 Hrs	Evan
4	Complete unit testing of application to verify that the username is functional for all implemented aspects of the app	2.5 Hrs	Evan
5	Format UI on profile page to look like the UI mockup	2 Hrs	Evan

#### Acceptance Criteria

- Given that the create username option is correctly implemented, the username will be stored in the database alongside their login info and they will be able to fetch it to see their username when they log back in.
- Given that the username is correctly implemented, users will see their username as the display name on their profile
- Given that the username is correctly implemented, users will see their friend's usernames when viewing their profiles.

#### User Story #3

**(4)** As a user, I would like to be able to have the option to link/not link my spotify account during registration, so that music can be part of my capsule account.

#	Description	Estimated Time	Owner
1	Create a link Spotify screen in React Native with a button to link Spotify and to skip linking for now	2 Hrs	Kevin
2	Figure out API calls to spotify to allow the	4 Hrs	Kevin

	user to login with Spotify		
3	Store all relevant information necessary to retrieve future Spotify information from the Spotify API in the database	4 Hrs	Kevin
4	Navigate to the link Instagram screen after linking Spotify or skipping for now	1 Hr	Kevin
5	Format UI on profile page to look like the UI mockup	2 Hrs	Kevin
6	Test linking, skipping, and navigation features	2 Hrs	Kevin

#### Acceptance Criteria

- Given that the UI is correctly implemented, when the user presses the link Spotify button they will be redirected to log in with Spotify.
- Given that the UI is correctly implemented, when the user presses skip for now they will be taken to the next page.
- Given that the navigation is correctly implemented, when the user is done logging into Spotify they will be directed to the link Instagram page.

#### User Story #4

**(5)** As a user, I would like to be able to have the option to link/not link my instagram account during registration, so that recent instagram photos can be part of my capsule account.

#	Description	Estimated Time	Owner
1	Create a link Instagram screen in React Native with a button to link Instagram and to skip linking for now	2 Hrs	Kevin
2	Figure out API calls to spotify to allow the user to login with Instagram	4 Hrs	Kevin
3	Store all relevant information necessary to retrieve future Instagram information from the Instagram API in the database	4 Hrs	Kevin

4	Navigate to the main page screen after linking Instagram or skipping for now	1 Hr	Kevin
5	Format UI on profile page to look like the UI mockup	2 Hrs	Kevin
6	Test linking, skipping, and navigation features	2 Hrs	Kevin

#### Acceptance Criteria

- Given that the UI is correctly implemented, when the user presses the link Instagram button they will be redirected to log in with Instagram .
- Given that the UI is correctly implemented, when the user presses skip for now they will be taken to the main page.
- Given that the navigation is correctly implemented, when the user is finished logging in with Instagram they will be directed to the main page.

#### User Story #5

**(7)** As a user, I would like there to be a profile page unique to my account, so that I have a central hub for all account information

#	Description	Estimated Time	Owner
1	Add button, with good styling, to main page to access profile page	1 Hr	Nathan
2	Implement navigation to the new screen (research navigation and passing states)	3 Hrs	Nathan
3	Format UI on profile page to look like the UI mockup	4 Hrs	Nathan
4	Test application so that navigation and profile page acts as expected for each user	2 Hrs	Nathan

#### Acceptance Criteria

- Given that the navigation is correctly implemented, when the user presses their profile picture on the main page, then the user's unique profile page will appear on the screen.

- Given that the profile page data is correctly displayed, when the user views their profile page, they will see their unique username and profile picture on the screen.
- Given that the UI is correctly implemented, when the user views their profile page, they should be able to see all settings related to their profile.

## User Story #6

**(10)** As a user, I would like there to be a friends page with all information relevant to friends quickly accessible, so that I can complete any actions related to friends.

#	Description	Estimated Time	Owner
1	Add button on profile page to navigate to friend page	30 Min	Nathan
2	Implement navigation to friend screen	30 Min	Nathan
3	Format UI on friend page to look like the UI mockup	3 Hrs	Nathan
4	Show current friends and friend requests of the current user (Research MongoDB)	5 Hrs	Nathan
5	Test application so that navigation and friend page acts as expected for each user	2 Hrs	Nathan

## Acceptance Criteria

- Given that the navigation is correctly implemented, when the user presses the friends button on the profile page, then the user's friend page will appear on the screen.
- Given that the MongoDB data is correctly retrieved, when the user views their friend page, they will see all of their friends and friend requests.
- Given that the UI is correctly implemented, when the user views the friend page screen, they should be able to scroll through all friends and friend requests.

## User Story #7

**(11)** As a user, I would like to be able to invite friends by username, so that we can see each other's capsules.

#	Description	Estimated Time	Owner
1	On the friend page, add a text input box and button to type in a friend username and then send the request	1 Hr	Nathan
2	When sending a friend request, add the friend request to the appropriate user object in MongoDB(research MongoDB)	6 Hrs	Nathan
3	Error checking for when the mongoDB request fails	2 Hrs	Nathan
4	Test application and ensure that data is properly stored when sending a friend request	2 Hrs	Nathan

#### Acceptance Criteria

- Given that MongoDB requests are correctly implemented, when the user sends a friend request to another user, the other user will see the request on their friend page.
- Given that error handling is properly implemented, when a user sends a friend request to a nonexistent user, the user will receive an error message.
- Given that the UI is correctly implemented, when the user successfully sends a friend request, a 'success' message will be shown to the user.
- Given that the UI textbox is correctly implemented, when the user sends the friend request to the username typed into the text box, the text box will be cleared to a blank text box.

#### User Story #8

**(12)** As a user, I would like to be able to view who has requested me as a friend in the friends page, so that I can visualize who wants to be my friend.

#	Description	Estimated Time	Owner
1	On the friend page, add a section for	2 Hrs	Evan

	incoming friend requests		
2	In the friend requests section, implement a skeleton functionality for accepting/rejecting the request and make the styling look good.	4 Hrs	Evan
3	When the friend request array is updated in the MongoDB, update the user's UI to display the new request	4 Hrs	Evan
4	Test application to ensure that the client displays the information from the database properly	2 Hrs	Evan

#### Acceptance Criteria

- Given that the UI is correctly implemented, when the user receives a friend request it will appear on the friend requests list.
- Given that the UI is fully implemented, the user will be able to see their friend requests displayed in a readable and good-looking manner.
- Given that the friend request array is properly updated when receiving a request, the UI will show a new request from that friend.

#### User Story #9

**(13)** As a user, I would like to be able to accept or reject a friend request in the friends page, so that I can manage who can view my capsule.

#	Description	Estimated Time	Owner
1	When accepting the friend request, update the database for the user's current friend list	3 Hrs	Evan
2	When accepting the friend request, update the database for the friend's current friend list	3 Hrs	Evan
3	Error checking for when the mongoDB request fails	2 Hrs	Evan



4	Test application and ensure that data is properly stored when accepting a friend request	2 Hrs	Evan
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#### Acceptance Criteria

- Given that the UI is implemented correctly, when the user clicks to accept/reject the friend request, it will no longer appear on the list of requests.
- Given that calls to MongoDB work correctly, the user that was added after accepting a request will be stored in the friend's list of the user and the friend
- Given that calls to MongoDB work correctly, the user can reject a request and the friend request will be removed from that user's data.

#### User Story #10

**(14)** As a user, I would like to be able to remove a friend that I previously accepted, so that I can choose to no longer see another person's capsule.

#	Description	Estimated Time	Owner
1	On the friend page, add a remove friend button	1 Hr	Peter
2	Remove friend in friend list on MongoDB via request to server	2 Hrs	Peter
3	Error checking for when the MongoDB request fails (User account no longer active, User unfriended you first)	4 Hrs	Peter
4	Update client to show new friends list	1 Hr	Peter
5	Test and Debug MongoDB correctly stores information, and client accurately displays information	1 Hr	Peter

#### Acceptance Criteria

- Given that UI is correctly implemented, when user presses remove friend button, that friend will no longer appear on friends list
- Given that the calls to MongoDB work and UI works correctly, when a user that was removed from your friends list checks their capsules your capsule will no longer appear for them

- Given that the calls to MongoDB work when the user goes back to the capsule screen the friend that was removed will no longer have their capsules displayed

### User Story #11

**(15)** As a user, I would like there to be a history page containing a scrollable list of past capsules, so that I can be reminded of past months.

#	Description	Estimated Time	Owner
1	Add button on profile page to navigate to history page	2 Hrs	Peter
2	Request MongoDB for past capsules	3 Hrs	Peter
3	Error checking for edge cases (No past capsules, user does not exist)	1 Hr	Peter
4	Display past Capsules	3 Hrs	Peter
5	Format UI on profile page to look like the UI mockup	3 Hrs	Peter
6	Debug and Testing	2 Hrs	Peter

### Acceptance Criteria

- Given that UI is correctly implemented, when user presses the history button on the profile page they will navigate to the history page
- Given that calls to MongoDB work correctly the past capsules will be displayed on the screen
- Given that error handling works correctly, if the user has no past capsules a message saying no past capsules will be displayed

### User Story #12

**(20)** As a user, I would like to have a Story Board page, so that I can see my friend's snapshots.

#	Description	Estimated Time	Owner
1	Use React Native to create the Story Board button on the main page	3 Hrs	Peter
2	Create Story Board page	4 Hrs	Peter
3	Create all server/database interactions to get friends snapshots	3 Hrs	Peter
4	Use React Native to display snapshots, and match UI formatting	2 Hrs	Peter
5	Testing and Debugging	2 Hrs	Peter

#### Acceptance Criteria

- Given that UI is correctly implemented, when user presses the Story Board button on the main page they will navigate to the Story Board page
- Given that the UI is correctly implemented the Story Board page will contain friends capsules, and navigation back to the main page
- Given that calls to MongoDB work correctly, your friends most recent capsules will be displayed on the screen

#### Time Breakdown

	Kevin	Nathan	Evan	Peter
User Story 1	8	6	4	0
User Story 2	0	0	13.5	0
User Story 3	15	0	0	0
User Story 4	15	0	0	0
User Story 5	0	10	0	0
User Story 6	0	11	0	0
User Story 7	0	11	0	0
User Story 8	0	0	12	0
User Story 9	0	0	10	0

User Story 10	0	0	0	9
User Story 11	0	0	0	14
User Story 12	0	0	0	14
Total Hours	<b>38</b>	<b>38</b>	<b>39.5</b>	<b>37</b>

## Sprint Backlog

### Functional Requirements

#### Login/Sign up

- ~~1. As a user, I would like to be able to log in/sign up via my Google account, so that the log in/sign up process goes faster.~~
- ~~2. As a user, I would like to be able to create a username during registration, so that I can identify myself on the platform.~~
3. As a user, I would like to be able to pick a profile picture during registration, so that I can better identify myself on the platform.
- ~~4. As a user, I would like to be able to have the option to link/not link my spotify account during registration, so that music can be part of my capsule account.~~
- ~~5. As a user, I would like to be able to have the option to link/not link my instagram account during registration, so that recent instagram photos can be part of my capsule account.~~
6. As a user, I would like to be able to delete my account, so that I can remove my information from the platform.

#### Profile, Friends, and History

- ~~7. As a user, I would like there to be a profile page unique to my account, so that I have a central hub for all account information.~~
8. As a user, I would like to be able to toggle between light and dark mode so that I can view the app differently depending on my preference.
9. As a user, I would like to be able to link my spotify, link my instagram, and change my profile picture, on the 'my profile' page, so that I can update any information linked to my account.
- ~~10. As a user, I would like there to be a friends page with all information relevant to friends quickly accessible, so that I can complete any actions related to friends.~~
- ~~11. As a user, I would like to be able to invite friends by username, so that we can see each other's capsules.~~

- ~~12. As a user, I would like to be able to view who has requested me as a friend in the friends page, so that I can visualize who wants to be my friend.~~
- ~~13. As a user, I would like to be able to accept or reject a friend request in the friends page, so that I can manage who can view my capsule.~~
- ~~14. As a user, I would like to be able to remove a friend that I previously accepted, so that I can choose to no longer see another person's capsule.~~
- ~~15. As a user, I would like there to be a history page containing a scrollable list of past capsules, so that I can be reminded of past months.~~
16. As a user, I would like to have a history page where I am able to see previous capsules, so that I can reflect on previous months.
17. As a user, I would like to be able to click on a snapshot to enlarge it, so that I can view more options regarding the snapshot.
18. As a user, I would like to be able to share my snapshot as an image to another app, so that I can easily send my snapshot to other people.
19. As a user, I would like to be able to edit my snapshot (options for edit page described later), so that I can further customize my snapshot.

### **Story Board (sharing snapshots)**

- ~~20. As a user, I would like to have a Story Board page, so that I can see my friend's snapshots.~~
21. As a user, I would like to be able to comment on my friend's snapshot after I enlarge it, so that I can leave my opinion about their snapshot.
22. As a user, I would like to be able to react to my friend's snapshot after I enlarge it, so that I can emotionally connect with my friend.
23. As a user, I would like the Story Board to be reset every month, so that I can only view the most recent capsules.

### **Main Page**

24. As a user, I would like to be able to see a countdown until I get my monthly snapshot if it is not time for it to be displayed, so that I know when to expect my new capsule.
25. As a user, I would like to be able to view my snapshot at the end of the month, so that I can reminisce on the past month.
26. As a user, I would like my snapshot to have my most played song of the month, so that I have another reminder of the month.
27. As a user, I would like a portion of the snapshot's song to play out loud anytime I am looking at a snapshot so that I can audibly connect with the capsule
28. As a user, I would like Time Capsule to intelligently choose photos for my snapshot, such as landscapes and people smiling, so that I have quality photos for my capsule.

- 29. As a user, I would like my snapshot to use my Instagram photos, if I posted that month, so that I can relive the experiences in my capsule.
- 30. As a user, I would like my snapshot to not contain identical pictures, so that I have a variety of photos on my snapshot.
- 31. As a user, I would like my snapshot to pick default photos / songs if I have not taken enough pictures / linked my spotify account , so that I always have enough information for the capsule.
- 32. As a user, I would like my snapshot to contain a variable amount of photos, so that it allows more flexibility in the photo picking process.
- 33. As a user, I would like my snapshot to contain a quote from my song of the month, so that I am reminded of the lyrics.
- 34. As a user, I would like to be able to share my snapshot to the Story Board, so that my friends can see it.

### **Editing**

- 35. As a user, I would like to be able to view an edit page where I can access all features regarding the editing of a snapshot, so that I can have all editing features in one spot.
- 36. As a user, I would like to be able to click on a photo to change the photo in the edit page, so that I can replace the photo if I do not like it.
- 37. As a user, I would like to be able to click on the song to change my song in the edit page, so that I can choose another song I would rather have in the snapshot.
- 38. As a user, I would like to be able to edit the quote on the snapshot, so that I can add my own thoughts to the snapshot.
- 39. As a user, I would like to be able to change the number of photos used in the snapshot, so that I can have greater control over the photos shown in the snapshot.
- 40. As a user, I would like to be able to save my edited snapshot, so that it automatically updates my Story Board and history

### **Yearly Recap (Moments)**

- 41. As a user, I would like to be able to insert brief descriptions of moments that occur throughout the year, so that I can remember them later on.
- 42. As a user, I would like to be able to see how many moments I have entered throughout the year, so that I have a visual reminder of how many moments I have already entered.
- 43. As a user, I would like to receive all the moments I sent at the end of the year, so that I can have a recap of all my favorite memories from the year.

44. As a user, I would like all user moments to have a timestamp of when they were submitted, so that I can better picture what was happening at that time.

### **Notifications**

45. As a user, I would like to receive a notification when my monthly snapshot is released so that I know when it has become available

46. As a user I would like to receive a notification when someone accepts my friend request or invites me to be their friend so that I am up-to-date with friend requests

47. As a user I would like to receive a notification when someone reacts or comments on my snapshot so that I am aware of the reactions / comments

48. As a user I would like to receive a notification when a friend shares their snapshot to the Story Board so that I know and can go look at it