Team 12 - CS 307 Sprint 3 Overview

Project Name: Capsule

Nathan Schneider, Kevin Jones, Evan Zimmerman, Peter Henwood

Sprint Overview

Our goal during this sprint is to add some additional features and functionality for the user. We would like to allow the user to have editing options if they are not fully satisfied with their capsule. Additionally, we will add a feature to allow them to enter memories and view them later. We will also be fine tuning our user interface to allow for a more complete user experience. Finally, we will work on a custom machine learning algorithm to analyze and choose the images for the capsule.

Scrum Master: Nathan Schneider

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

Overview of Risks and Challenges

The risks of this sprint are lower than other sprints because we have already implemented much of the tricky functionality. One problem could arise as we try to play the user's chosen song out loud for them. This involves a complex API request to spotify that we must figure out how to handle. Furthermore, problems could arise while allowing users to edit the capsule. This will involve several steps that we must figure out how to navigate.

User Stories

User Story #1

(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.

#	Description	Estimated Time	Owner
1	Add Share Button to Enlarged Capsule	1 hr	Peter
2	Find Share package	3 hr	Peter
3	Implement Share package	3 hr	Peter
4	Create Export	3 hr	Peter
5	Debug and Unit Test	3 hr	Peter

Acceptance Criteria

- Given that UI is implemented correctly, when the user is on the the history page, there will be a pressable share button
- Given that Share Button is implemented correctly, when you press the share button, a popup appears and the user is able to send the capsule to another person.
- Given that the Share Button is implemented correctly, when a capsule is shared to another user, the share popup disappears and the capsule is sent to the specified person.

User Story #2

(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.

#	Description	Estimated Time	Owner
1	Add Edit Button to Enlarged Capsule	1 hr	Peter
2	Add Edit Implementation	7 hr	Peter
3	Save Edit in MongoDB	2 hr	Peter

5	Debug and Unit Test	2 hr	Peter

Acceptance Criteria

- Given that UI is implemented correctly, when you are on the enlarge page, there will be a pressable edit button.
- Given that edit button is implemented correctly, once you save the edits, you will be able to see the new edited capsule instead of the old unedited one on the history page
- Given that edit button is implemented correctly, once you save the edits, you will be able to see the new edited capsule instead of the old unedited one on the storyboard page if the capsule edited was your most recent capsule

User Story #3

(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.

#	Description	Estimated Time	Owner
1	Implement countdown ticker on the main page	3 hour	Evan
2	Generate the capsule once countdown hits zero	4 hour	Evan
3	Add Loading Screen while capsule generation is occuring	2 hrs	Evan
4	Debug and complete unit testing for the countdown. (Might Break Capsule Pipeline)	3 hours	Evan

Acceptance Criteria

- Given that the UI is correctly implemented, when you are on the main page, there will be a countdown ticking downwards on the main page.

- Given that the UI is correctly implemented, when on the main page, the countdown will be styled nicely and centered on the main page so it is clear to see for the user.
- Given that the UI is correctly implemented, when the countdown hits 0, the snapshot will be generated.

User Story #4

(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

#	Description	Estimated Time	Owner
1	Set up new server functions to to manage information from client	1 hour	Evan
2	Set up the server to use the Spotify API to play a given song.	5 hours	Evan
3	Debug and complete unit testing for playing the Spotify song	3 hours	Evan

Acceptance Criteria

- Given the user doesn't have a linked Spotify account, when on a capsule enlarged screen, the app will not play a song.
- Given the user doesn't have a linked Spotify Premium account, when on a capsule enlarged screen, the app will not play a song.
- Given the user has a linked Spotify Premium account, when viewing a capsule on the history page, their most played song will play

User Story #5

(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.

#	Description	Estimated Time	Owner

1	Create the edit page which can be navigated to from the history page by selecting a photo from a user's history of capsules.	4 hrs	Nathan
2	Display the selected capsule with good styling.	2 hrs	Nathan
3	Redesign Edit/History/StoryBoard styling to fit edit page styling	4 hrs	Peter
3	Add a back button to return to the history page.	1 hr	Nathan
4	Debug and complete unit testing for history page capsules	2 hrs	Nathan

Acceptance Criteria

- Given that the UI is correctly implemented, when the user enlarges a photo on the history page, there will be an "edit" button that appears and navigates to an edit page.
- Given that the UI is correctly implemented, when the user clicks the back arrow on the edit page, they will be sent back to the previous page.
- Given that the edit page is correctly implemented, when the user navigates to the edit page, they will see the photo they selected to edit.

User Story #6

(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.

#	Description	Estimated Time	Owner
1	Apply a second layer of 6 buttons that will be placed on top of each photo in the capsule.	2 hrs	Nathan
2	Open up the user's camera roll when the user attempts to change a photo	1 hrs	Nathan

#		Estimated Time	Owner
3	Replace the photo in the capsule with the photo that the user selected and rerender the snapshot.	2 hrs	Nathan
4	Update all capsule data in the mongoDB and S3 database when the user replaces a photo.	2 hrs	Nathan
5	Debug and complete unit testing for photo replacement.	2 hrs	Nathan

Acceptance Criteria

- Given that mongoDB requests are properly implemented, when the user replaces a photo on the capsule, the photo on screen will change.
- Given that the UI is correctly implemented, when the user selects a photo from their capsule, their camera library is opened allowing them to select a new photo.
- Given that the UI is correctly implemented, when the user cancels the selection of a new photo, the capsule remains unchanged.

User Story #7

(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.

#	Description	Estimated Time	Owner
1	Apply a button on top of the song section of the capsule, with good styling, that can trigger a function which selected.	1 hr	Nathan
2	Write mongoDB requests to replace the selected song with the user inputted song.	2 hrs	Nathan
3	Rerender the capsule with the new song that was inputted.	2 hrs	Nathan
4	Debug and complete unit testing for the spotify song replacement.	2 hrs	Nathan

Acceptance Criteria

- Given that the UI is correctly implemented, when the user clicks on the spotify song in their capsule, a text input box will appear allowing them to replace the content in the capsule.
- Given that the mongoDB requests are properly implemented, when the user submits a new song name for their capsule, the screen will show the new song name and the photo will be rerendered.
- Given that the UI is properly implemented, when the user cancels the submission of a new song name, the capsule will remain unchanged.

User Story #8

(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

#	Description	Estimated Time	Owner
1	Add a save button to the edit page with implemented functionality to send information to the server.	3 hours	Evan
2	Write mongoDB requests to replace the current snapshot with the edited snapshot.	2 hours	Evan
3	Debug and complete unit testing for saving/updating snapshot.	3 hours	Evan

Acceptance Criteria

- Given that the UI is implemented correctly, when the user is done editing their snapshot, they can click the save button and it saves / exits the edit page.
- Given that the UI is implemented correctly, when the user saves the edited snapshot, the story board page will be automatically updated.
- Given that the UI is implemented correctly, when the user saves the edited snapshot, the history page will be automatically updated.

User Story #9

(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.

#	Description	Estimated Time	Owner
1	Create a text box to allow the user to enter the moment	1 hr	Nathan
2	Create requests to send the moments to the database through the backend	3 hrs	Nathan
3	Neatly style the text box to match with the rest of the UI	2 hrs	Nathan
4	Debug and complete unit testing	2 hr	Nathan

Acceptance Criteria
- Given that the UI has been created correctly, when the user navigates to the main page there will be a place to enter a moment.
- Given that the enter box has been correctly implemented, when the user presses 'done', there will be no text in the enter box.
- Given that the requests have been set up correctly, when the user views their moments, they should see the moments they entered.

User Story #10

(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.

#	Description	Estimated Time	Owner
1	Create a counter that can be displayed in	1 hr	Kevin

#	Description	Estimated Time	Owner
	the UI		
2	Set up requests to the database to get the user's total number of moments for the year	3 hr	Kevin
3	Increase the counter after each new moment	1 hr	Kevin
4	Style the counter to look similar to the rest of the UI	1 hr	Kevin
5	Debug and complete unit testing	2 hr	Kevin

Acceptance Criteria

- Given that the counter is correctly implemented, when the user navigates to the main page, there will be a counter displaying the number of moments a user has typed in.
- Given that the counter updates properly, when the user types in a new moment the counter will increase.
- Given that the counter is correctly implemented, when the user first creates an account and has not entered any moments, the counter will be initialized at 0.

User Story #11

(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.

#	Description	Estimated Time	Owner
1	Create a page to display the moments	2 hrs	Kevin
2	Create a temporary button to simulate the end of the year and create the page	1 hr	Kevin
3	Send requests to the backend to get all the moments	2 hrs	Kevin

#	Description		Owner
4	Display all the moments in a scrollable list	2 hrs	Kevin
5	Style the list to fit with the rest of application	2 hrs	Kevin
6	Debug and complete unit testing	2 hr	Kevin

Acceptance Criteria

- Given that the temporary button is correctly implemented, when it is pressed the user will be taken to a moments page.
- Given that the UI is correctly implemented, when the user views the moments page, the user will be able to scroll through all of their moments from the year.
- Given that the scrollable list is correctly implemented, when the user views the moments page, longer moments should not be cut off by the screen.

User Story #12

(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.

#	Description	Estimated Time	Owner
1	Find a way to capture the day and time the moment was written	3 hrs	Kevin
2	Create place to store the day and time in the database	3 hrs	Kevin
3	Add the day and time to the request to send it to the backend	3 hrs	Kevin
4	Figure out how to display the day and time in the moments page	2 hrs	Kevin
4	Debug and complete unit testing	2 hr	Kevin

Acceptance Criteria

- Given that the timestamps have been correctly implemented, when moments are displayed, their timestamp will also be displayed.

- Given that the timestamps have been correctly implemented, when the moments are displayed, both the date and the exact time of the moment should be saved.
- Given that the timestamps have been correctly implemented, when they are displayed with the moment, they should be clearly distinguishable from the moment itself and neatly styled.

Time Breakdown

	Kevin	Nathan	Evan	Peter
User Story 1	0	0	0	13
User Story 2	0	0	0	12
User Story 3	0	0	12	0
User Story 4	0	0	9	0
User Story 5	0	9	0	4
User Story 6	0	9	0	0
User Story 7	0	7	0	0
User Story 8	0	0	8	0
User Story 9	0	8	0	0
User Story 10	8	0	0	0
User Story 11	11	0	0	0
User Story 12	13	0	0	0
Total Hours	**32**	**33**	**29**	**29**

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