



Sprint 2 Planning Document

Team: 4

Project: UniLyfe

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## **Sprint Overview**

During the second sprint, we hope to gain a solid understanding of Cloud Firestore and gain more experience with Flutter. We plan to clean up our posting feature by fixing up how it looks and adding features that we failed to complete during our first sprint (like commenting or liking the post). We plan to finish setting up the user profile so that it displays user-information from the database. Lastly, we hope to finish our COVID-19 tracking feature.

**Scrum Master:** Ramitha Kotarkonda

**Meeting Plan:** Mondays 10pm, Tuesdays 10pm, Thursdays 10pm

## **Risks and Challenges:**

The biggest challenge we anticipate is getting acclimated to Cloud Firestore. Since there are numerous functionalities and different ways to store information in the database, it will take a while to learn how to store data efficiently. Another challenge would be finishing the previous user stories while working on the current user stories. There were many user stories that either need to be completed or need more improvement. We will need to manage our time more efficiently to ensure that we finish everything on time.

## Current Sprint Detail

**User Story #1:** As a user, I would like to earn points by posting on the app and interacting with people on the app.

#	Description	Estimated Time	Owner
1	Create a user's attribute for points in the database that increments every time the user creates a post.	2 hrs	Carolyn
2	Create a section for points in the user profile UI.	2 hrs	Carolyn
3	Increment the number of points on the user profile UI when a user makes a poll/photo/text post.	3 hrs	Carolyn
4	Create an info button detailing the number of points awarded for each post.	2 hrs	Carolyn
5	<a href="#"><u>Test to ensure that the point system works as intended (user's points increment when a post is made) and debug any errors.</u></a>	3 hrs	Carolyn

Acceptance criteria:

- Given that the implementation for the point system functions correctly, the number of points should increment in the database whenever the user makes a certain type of post.
- Given that the implementation for the point system functions correctly, the user should see their points increase on their user profile page after they create a post.

- Given that the implementation for the point system functions correctly, the user should be able to click an info button to see how many points they earn for each post.

**User story #2:** As a user, I would like to input personal information when signing up with a new account on the app.

#	Description	Estimated Time	Owner
1	Users are able to choose a username.	2 hrs	Carolyn
2	Users will be given suggested username if the username they inputted is already existing in the database.	3 hrs	Carolyn
3	Users are able to input a short text biography, display name, their year in school, and profile picture.	2 hrs	Carolyn
4	Users can select whether or not they have COVID-19.	2 hrs	Carolyn

### Testing

Acceptance criteria:

- Given that the implementation for the edit information page functions correctly, the user should be able to see the edit information page when they are signing up for a new account.
- Given that the implementation for the edit information page is functioning correctly, the user should be prompted with similar usernames if they have chosen a username that already exists.
- Given that the implementation for the edit information page functions correctly, the user should see their input changes reflected on the profile page.

**User story #3:** As a user, I would like to redeem points for possible incentives (i.e. coupons)

#	Description	Estimated Time	Owner
1	Add a page in the menu about rules of receiving incentives	2 hrs	Carolyn
2	Add a page in the menu detailing the amount of points given for each post made	2 hrs	Carolyn
3	User's points will be subtracted when they click on an item to redeem	4 hrs	Carolyn
4	<a href="#">Test to make sure that the redeeming feature works as intended and debug any errors.</a>	3 hrs	Carolyn

Acceptance criteria:

- Given that the point system is implemented correctly, the menu should have a page that details the rules of redeeming incentives.
- Given that the point system is implemented correctly, when the user redeems an item, their points should decrease by the amount of the reward.
- Given that the point system is implemented correctly, when the user's points decrease when they redeem a reward, this change should be reflected in the database.

**User story #4:** As a user, I would like to see how many people have tested positive for COVID-19.

#	Description	Estimated Time	Owner
1	Add a section where the user can view the number	1 hour	Ramitha
2	Create a counter which increments when the user changes their covid information to yes. Get the information from Cloud Firestore.	5 hours	Ramitha
3	Display the counter in the appropriate section	2 hours	Ramitha
4	<a href="#"><u>To test: Test and debug the counter functionality to ensure that the number of covid cases increase when the user changes their covid information to positive with covid.</u></a>	5 hours	Ramitha

Acceptance criteria:

- Given that the COVID-19 counter is implemented correctly, the number of covid cases should be displayed.
- Given that the COVID-19 counter is implemented correctly, the number of covid cases should increase when the user updates their covid information.
- Given that the COVID-19 counter is implemented correctly, this information should be stored successfully into the database.

**User story #5:** As a user, I would like to be able to report posts for inappropriate content (racism/ hate speech)

#	Description	Estimated Time	Owner
1	Add a button to the posts so that the user can click on the button	1 hour	Ramitha
2	Create a series of survey questions to know more about the user's feedback	1.5 hours	Ramitha
3	Add the users feedback into firebase and sort the posts based on feedback	4 hours	Ramitha
4	<a href="#">To test: Test and debug the survey functionality to ensure that the users are able to access the survey</a>	5 hours	Ramitha

Acceptance criteria:

- Given that the review survey is implemented correctly, the posts should have a button which leads the user to the survey.
- Given that the review survey is implemented correctly, the user should be able to answer the questions on the survey.
- Given that the review survey is implemented correctly, user feedback from the reviews should be stored successfully into the database.



**User story #6:** I would like to indicate whether or not I thought a review was helpful by liking the post.

#	Description	Estimated Time	Owner
1	Add/improve the button which would increment the count	2 hours	Ramitha
2	Connect the button to firebase	3 hours	Ramitha
3	Ensure all the posts have an increment button	1 hour	Ramitha
4	<a href="#">To test: Test and debug the counter functionality to ensure that number of likes increments</a>	5 hours	Ramitha

Acceptance criteria:

- Given that the like feature is implemented correctly, a button should be visible to all the posts.
- Given that the like feature is implemented correctly, the number of likes should increment when the button is pressed.
- Given that the like feature is implemented correctly, the likes should be stored successfully into the database.

**User story #7:** As a user, I would like to be able to search for keywords across all posts on the app.

#	Description	Estimated Time	Owner
1	Read through and understand search tutorial here: <a href="https://blog.smartnsoft.com/an-automatic-search-bar-in-flutter-flappy-search-bar-a470bc67fa1f">https://blog.smartnsoft.com/an-automatic-search-bar-in-flutter-flappy-search-bar-a470bc67fa1f</a>	2 hours	Unnati
2	Implement the search UI on the search page	1 hour	Unnati
3	Make sure the search functionality looks for the keyword in the post (if it's hard to search throughout all the keywords, maybe just search for post name)	4 hours	Unnati
4	<a href="#">Testing functionalities and debugging: see if the search functionality works when I type a keyword and press a button</a>	3 hours	Unnati

Acceptance criteria:

- Given that the search feature is implemented correctly, suggestions pop up as you are typing in your keyword.
- Given that the search feature is implemented correctly, the search page should display the correct posts after a keyword is typed in and a button is pressed.
- Given that the search feature is implemented correctly, the posts should change/refresh when the keyword changes and the button is pressed again.

**User story #8:** As a developer, I would like to access the data inputted by the user to display it properly

#	Description	Estimated Time	Owner
1	Access data that has already been inputted in Firestore and find a way to retrieve it	2 hours	Unnati
2	Display the data changes on the profile page after it has been retrieved	3 hours	Unnati
4	<a href="#"><u>Testing functionalities and debugging: make sure correct information is displayed on the appropriate pages after a user makes changes</u></a>	3 hours	Unnati

Acceptance criteria:

- Given that the displaying data feature is implemented correctly, once the “submit” button on the edit profile pull-up feature has been pressed, the pull up should disappear
- Given that the displaying data feature is implemented correctly, once the “submit” button on the edit profile pull-up feature has been pressed, changes should be reflected on the profile page.
- Given that the displaying data feature is implemented correctly, once the app has been refreshed or closed and opened again, the changes should persist.

**User story #9:** As a user, I would like to view all the posts I have ever liked

#	Description	Estimated Time	Owner
1	Understand Isha's code and the way she is storing posts for each of the channels on the home page	2 hours	Unnati
2	Find a way to retrieve the 'like' boolean for each user	1 hour	Unnati
3	Add a list data structure to the user class for liked posts	1 hour	Unnati
4	Try to replicate a similar post channel for each individual's liked posts	4 hours	Unnati
5	<a href="#">Testing functionalities and debugging: make sure all the user's liked posts appear in their liked posts section.</a>	3 hours	Unnati

Acceptance criteria:

- Given that the viewing liked posts feature is implemented correctly, when I go to the "liked posts" section on my profile, I should be able to see all the posts I have liked in the past.
- Given that the viewing liked posts feature is implemented correctly, if I go to the home page, like a post, and come back to the liked posts page, it should be updated with the newly liked post.
- Given that the viewing liked posts feature is implemented correctly, if I unlike a post, it should no longer appear in the "liked posts" section on my profile.

**User story #10:** As a user, I would like to reset my password if I forget it so that I can continue using my account.

#	Description	Estimated Time	Owner
1	Create a password recovery option on the login page.	1 hr	Isha
2	Create a UI with an input text field for users to insert their email address.	3 hrs	Isha
3	Send the password recovery email.	2 hrs	Isha
4	Update user's password on Firebase.	3 hrs	Isha
5	<a href="#"><u>Test to verify that a user who is resetting their password receives an email with a recovery link and is able to reset their password.</u></a>	1 hr	Isha

Acceptance criteria:

- Given that the password recovery email works as intended, when the user attempts to reset their password, they will receive an email within 10 minutes to do so.
- Given that the password recovery email was successfully sent, when the user clicks on the recovery link, they should be redirected to a page where they can set their new password.
- Given that the password is successfully updated, when the user changes their password, this password will be updated on Firebase and they can login with their new password.

**User story #11:** As a developer, I would like to filter out possibly harmful words in the comments/posts.

#	Description	Estimated Time	Owner
1	Create an algorithm to detect harmful words on comments/posts.	3 hrs	Isha
2	Add warning messages that will display if a user tries to submit a post/comment with hurtful words.	3 hrs	Isha
3	Create an algorithm to censor harmful words in comments/posts.	2 hrs	Isha
4	<a href="#"><u>Test to ensure that the user is receiving warning messages if they are about to post/comment something with hurtful words.</u></a>	1 hr	Isha
5	<a href="#"><u>Test to make sure that harmful words are censored in posts/comments containing them.</u></a>	1 hr	Isha

Acceptance criteria:

- Given that the warning messages work as intended, if a user tries to submit a post/comment with hurtful words, a warning message will pop up indicating that they are about to post something with harmful language.
- Given that the censoring algorithm works as intended, if a user proceeds to submit their post/comment after receiving the warning message, all the hurtful words in the post/comment will be censored.
- Given that the algorithm to detect all harmful words works correctly, all the hurtful words should be mentioned in the warning message, and should be censored in the post/comment if submitted.

**User story #12:** As a user, I would like to view my comment history.

#	Description	Estimated Time	Owner
1	Create a page where the user can view their comment history.	1 hr	Isha
2	Create a button/tab on the user page that links to the page to view comment history.	1 hr	Isha
3	Add a collection on Cloud Firestore to store the specific user's comments.	3 hrs	Isha
4	Retrieve the user's comments from Cloud Firestore and display them on the comment history page.	4 hrs	Isha
5	<a href="#">Test to make sure all the user's comments appear in their comment history page.</a>	1 hr	Isha

Acceptance criteria:

- Given that the button/tab is implemented correctly, the app should navigate the user to the page where they can view their comment history.
- Given that the collection on Cloud Firestore is implemented correctly, whenever the user makes a new comment, that comment should appear in the section of the database representing the comments made by that user.
- Given that the comment page is implemented correctly, all comments made by the user (from the database) should appear on this page.
- Given that the comment page is implemented correctly, all comments should be ordered from most recently made to least recently made.

**User story #13:** As a user, I would like to view the profile of the post creator or the comment creator.

#	Description	Estimated Time	Owner
1	Add the post creator's username to the post that they create	2 hours	Gayathri
2	Add the post creator's username to the comments that they create	2 hours	Gayathri
3	Link the username that is displayed in the comments/ posts to that specific user's profile	3 hours	Gayathri
5	<a href="#">Test and debug the functionality that ensures the user profile is successfully loaded after clicking the username</a>	3 hours	Gayathri

Acceptance criteria:

- Given that a post is displayed on the homepage, when looking at the bottom left corner of the post, the viewer should be able to see the post creator's username.
- Given that the post creator's username is displayed on the post that they create, when the username is clicked, the user should be taken to the post creator's user profile.
- Given that a user A's username is displayed on the comment that they create, when that username is clicked by user B, user B should be taken to User A's user profile.



User story #14: As a user, I would like to gain a comprehensive understanding about the app and its developers.

#	Description	Estimated Time	Owner
1	Create a page that links to “About the app” and fill it with information about the backstory of the app	2 hours	Gayathri
2	Create a page that links to “About the creators” and fill it with biographies about each developer	2 hours	Gayathri
3	Create a page that links to “Help” and fill it with how the app works	3 hours	Gayathri
4	Create a “FAQ” button and create a page that links to it and fill it with commonly asked questions about the app	2 hours	Gayathri
5	<a href="#">Test and Debug functionality that allows users to view information about the app</a>	2 hours	Gayathri

Acceptance criteria:

- Given that the ‘About the app’ button is implemented correctly, if the user clicks on the button, they are directed to a page filled with the purpose of the app.
- Given that the ‘About the creators’ button is implemented correctly, if the user clicks on the button, they are directed to a page filled with each developer’s biography
- Given that ‘Help’ button is implemented correctly, if the user clicks on the button, they are directed to a page that is filled with a basic guide of each feature of the app.

- Given that the 'FAQ' button is implemented correctly, if the user clicks on the button, they are directed to a page that is filled with commonly asked questions about the app.

**User story #15:** As a user, I would like to see a completely randomized post/event/comment/location.

#	Description	Estimated Time	Owner
1	Create a pressable button that says 'randomize page' and add it to each subpage of the UI	3 hours	Gayathri
3	Create a pressable button that says 'revert' and add it to each subpage of the UI	2 hours	Gayathri
4	Implement functionality so that the order of the page isn't determined by time posted	3 hours	Gayathri
5	<a href="#"><u>Test and debug functionality so that posts displayed in randomized fashion.</u></a>	3 hours	Gayathri

Acceptance criteria:

- Given that the 'randomize page' button functions properly, when the user clicks on the button, all the posts on the feed should be displayed in a random order.
- Given that the 'revert button' button functions properly, when the user clicks on the button, all the posts on the feed go back to chronological order.
- Given that there are multiple subsections of the app, the 'randomize' page and the 'revert' page work accordingly for each subsection - by randomizing and reverting each post in that subpage.


## Remaining Backlog

### Functional Requirements:

1. As a user, I would like to create a new account with a username and password
2. ~~As a user, I would like to log in using my college email account through Google or Email/Password.~~
3. ~~As a user, I would like to reset my password if I forget it so that I can continue using my account.~~
4. As a user, I would like to log in using my Purdue Career Account (if time allows)
5. ~~As a user, I would like to be able to edit certain elements of my profile.~~
6. ~~As a user, I would like an information button or tutorial with explanation of each feature in the app~~
7. ~~As a user, I would like to easily access the different subsections of the application making the app user friendly.~~
8. ~~As a user, I would like to post reviews highlighting my experience in locations near Purdue University.~~
9. As a user, I would like to see all recent posts on my home feed.
10. ~~As a user, I would like to read reviews posted by others regarding their experiences in locations near Purdue University.~~
11. ~~As a user, I would like to add pictures of/information about myself so I can easily get matched to people.~~
12. ~~As a user, I would like to view the profile of the post creator or the comment creator.~~
13. As a user, I would like to make friends with those who have similar interests, taking the same/similar classes, and those who are in the same/similar clubs/extracurricular activities as me.
14. ~~As a user, I would like to know where COVID hotspots are located graphically on a map.~~

15. As a user, I would like to avoid COVID hotspots on/near campus which are displayed by red dots on the map by seeing a list of these locations.
- ~~16. As a user, I would like to anonymously log the places I have visited recently on the app if I have tested positive for COVID.~~
- ~~17. As a user, I would like to see how many people who have tested positive for COVID~~
18. As a user, I would like to see how many people with COVID have been in a certain building recently.
- ~~19. As a user, I would like to create polls to gather feedback on popular locations.~~
20. As a user, I would like to try to find quiet, empty places to study.
21. As a user, I would like to read the opinions of my peers to know what food is good at the dining courts.
22. As a user, I would like to rate specific foods served at the dining courts (i.e. what sauces are best at the stir fry place in Earhart)
23. As a user, I would like to add specific foods served at the dining courts (i.e. Earhart is now serving X weird ice cream flavor)
24. As a user, I would like to be notified whenever someone makes a post about a certain topic (i.e. free food on campus, dining court reviews, photos from a certain location).
- ~~25. As a user, I would like to add topics I am interested in to my wishlist which can be used to get notifications or/and make new friends (i.e. Ramitha and you like to study at Lawson)~~
- ~~26. As a user, I would like to rate places based on my personal experience.~~
- ~~27. As a user, I would like to be able to search for keywords across all posts on the app.~~
28. As a user, I would like to filter locations based on how high their ratings are.
- ~~29. As a user, I would like to filter posts on my home feed by reviews, ratings, or polls.~~
30. As a user, I would like to explore places which only Purdue students know (ex: top of Lawson).

31. As a user, I would like to add more places which not many students know about.
- ~~32. As a user, I would like to upload photos so that my peers will have an idea of what the place is like.~~
- ~~33. As a user, I would like to add comments regarding my experiences at certain places.~~
34. As a user, I would like to read reviews on residence halls so that I know the most popular places to live (if time allows).
35. As a user, I would like to add information about events happening on campus.
36. As a user, I would like to read/write reviews on residence halls and nearby apartments (if time allows).
- ~~37. As a user, I would like to earn points by posting on the app and interacting with people on the app.~~
- ~~38. As a user, I would like to redeem points for possible incentives (i.e. coupons)~~
39. As a user, I would like to be able to report users for inappropriate content (racism/hate speech)
- ~~40. As a user, I would like to be able to report posts for inappropriate content (racism/hate speech)~~
- ~~41. As a user, I would like to see a completely randomized post/event/comment/location (if time allows)~~
- ~~42. As a user, I would like to indicate whether or not I thought a review was helpful by implementing a like button.~~
- ~~43. As a user, I would like to view my comment history.~~
- ~~44. As a user, I would like to view all the posts I have ever liked.~~
- ~~45. As a developer, I would like to access and store the username and password data for each user.~~
- ~~46. As a developer, I would like to access the data inputted by the user to display it properly~~
47. As a developer, I would like to access and analyze information that users upload about themselves for their profile.



~~48. As a developer, I would like to filter out possibly harmful words in the comments/posts.~~

49. As a developer, I would like to filter out inappropriate photos users have posted.

50. As a user, I would like to input personal information when signing up with a new account on the app.