Apollo 🚀

Sprint 3 Planning Document

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Sprint Overview

This sprint, Team 4 plans to wrap up our project with the addition of a number of social networking features such as friends, direct messages, and notifications. In addition, we will be touching up some of our previously added features such as threads and file uploads. This sprint will be the final sprint for Apollo, and we are super excited to share our work in our final presentations.

Scrum Master: Jacob Beene

Meeting Plan: Tuesdays / Thursdays at 8pm

Risks / Challenges

Sprint 3 will be a hectic sprint as we will be attempting to put on the finishing touches to our semester long project. As mentioned in our retrospective, we had issues last sprint with testing and schedule conflicts. Our group is not very familiar with writing and executing tests so this will be one area of challenge for our team. Additionally, as we near the end of the semester and enter final exam season, team members' work loads will start to increase and we will have less time to spend working on Apollo. Keeping this in mind, we hope to get a good start early on in this sprint to avoid unnecessary scrambling near finals.

Current Sprint Detail

User Story #29

As a user, I want ratings / reviews to contain more specific information such as difficulty, enjoyability, whether or not attendance is required, etc.

Tasks	Status	Estimated Time	Owner
Add UI components	Not started ▾	3 hour	Ali
Update POST payload	Not started ▾	0.5 hour	Ali
Update API (backend)	Not started ▾	2 hour	Daniel
Automatic tests for correctness + debugging	Not started ▾	1 hour	Daniel
Automatic tests for error handling + debugging	Not started ▾	1 hour	Daniel

Acceptance Criteria

1. The rating / review section must include new fields for difficulty, enjoyability, and attendance requirements.
2. Given that a user is creating a review, they can set the difficulty of the course on a scale from 1 to 5.
3. Given that the user is creating a review, the user must be able to indicate whether attendance is required or not by selecting a checkbox.
4. Given that the user is creating a review, if they do not fill all the required fields, they will receive an error message.
5. Given that the user is creating a review, if they fill out all the required fields, they will receive a success message.

User Story #30

As a professor, I want to be able to remove files from the course homepage.

Tasks	Status	Estimated Time	Owner
Add UI component	Not started ▾	1 hour	Edward
Send "remove" request	Not started ▾	0.5 hour	Edward

Tasks	Status	Estimated Time	Owner
Add remove file API request	Not started ▾	2 hours	Jacob
Manual Tests for correctness + debugging	Not started ▾	1 hour	Jacob
Manual Tests for error handling + debugging	Not started ▾	1 hour	Jacob

Acceptance Criteria
1. Given that the UI component is implemented correctly, professors will be able to see the option to remove files from the course homepage
2. Given that the UI component is implemented correctly, the UI component should display a feedback message when the file has been removed.
3. Given that the "remove" request is implemented correctly, the file will be removed from the course homepage.

User Story #34
As a user, I would like to view an interactive map of campus on the map page

Tasks	Status	Estimated Time	Owner
Integrate Map API	Not started ▾	2 hours	Edward
Create Map Overlay	Not started ▾	3 hours	Edward
Collect data	Not started ▾	3 hours	Sai
Backend API	Not started ▾	2 hours	Sai
Manual Tests for correctness + debugging	Not started ▾	1 hour	Sai
Manual Tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria
1. Given that the user navigates to the map page, they will see a map of Purdue with pins for notable locations.
2. Given that a user clicks on a pin, more information about the pinned location will be shown.
3. The user should be able to zoom in and out on the map.

User Story #49

As a user, I want to be able to send direct messages to my friends.

Tasks	Status	Estimated Time	Owner
Create "messages" page	Not started ▾	3 hours	Ali
Create "conversation" UI	Not started ▾	3 hours	Edward
Add search for friends when creating dm	Not started ▾	1 hour	Ali
Send API requests	Not started ▾	1 hour	Jacob
Write backend objects	Not started ▾	3 hours	Jacob
Write API requests	Not started ▾	3 hours	Jacob
Automatic tests for correctness + debugging	Not started ▾	2 hour	Jacob
Automatic tests for error handling + debugging	Not started ▾	1 hour	Jacob

Acceptance Criteria

1. The user must be able to send direct messages to one or multiple friends.
2. The user should be able to view a history of their direct messages, including both sent and received messages
3. The user will send and receive messages in real time
4. Given that a user receives a message, they should receive a notification for it.
5. Given that "search for users" is implemented correctly, the user must be able to select the recipient(s) of their direct message from their list of friends or search for a specific user.

User Story #53

As a user, I want to be able to add / remove other users from my friends list

Tasks	Status	Estimated Time	Owner
Create button to send friend request	Not started ▾	1 hour	Edward
Create UI to a view a list of your friends	Not started ▾	3 hours	Edward
Create notification for	Not started ▾	1 hour	Daniel

Tasks	Status	Estimated Time	Owner
friend requests			
Create UI for accept / reject friend request	Not started ▾	1 hour	Sai
Handle pending friend requests	Not started ▾	2 hours	Brandon
Add backend to store, manage and retrieve friend list.	Not started ▾	2 hour	Daniel
Automatic tests for correctness + debugging	Not started ▾	1 hour	Daniel
Automatic tests for error handling + debugging	Not started ▾	1 hour	Daniel

Acceptance Criteria
1. Given that "create button to add friend" is implemented correctly, users should be able to press add friend button when viewing another user's profile
2. Users should be able to remove someone from their friend's list.
3. Users can accept or decline a friend request.
4. Given that a user accepts a friend request, they will be added to the user's friends list.
5. Given that a user denies a friend request, they will not be added to the user's friends list.
6. Given that a user is friends with someone, those users should be able to DM each other.

User Story #54
As a user, I want to be able to add and remove other users to my block list

Tasks	Status	Estimated Time	Owner
Create UI to add user to your block list	Not started ▾	1 hour	Brandon
Add "blocked" restrictions (frontend)	Not started ▾	2 hour	Brandon
Add "blocked" restrictions (backend)	Not started ▾	2 hours	Jacob
API work (backend)	Not started ▾	1 hour	Jacob

Tasks	Status	Estimated Time	Owner
Manual tests for correctness + debugging	Not started ▾	1 hour	Sai
Manual tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria

1. Given that the UI option to add and remove other users from the block list is implemented correctly, the user will be able to remove or add users from their blocklist.
2. Given that the add "blocked" restriction is implemented correctly, it should prevent any blocked user from contacting the user or seeing their profile.
3. Users should be able to see a confirmation message when a user is added or removed from their block list.

User Story #57

As a user, I want to be able to see a user's recent activity (ex: their threads and comments) on their profile page.

Tasks	Status	Estimated Time	Owner
Create UI on profile to display recent activity	Not started ▾	4 hours	Ali
Modify all back end functions to append to a list of recent activity when a user does something (Comment / create thread / upvote / downvote, etc).	Not started ▾	3 hours	Jacob
Make a button to clear recent activity	Not started ▾	1 hour	Ali
Clear recent activity backend	Not started ▾	1 hour	Brandon
Manual tests for correctness + debugging	Not started ▾	1 hour	Sai
Manual tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria

1. Given that "create UI..." is implemented correctly, a user's recent activity should be displayed on the user's profile page.
2. Given that "create UI..." is implemented correctly, the max amount of recent activity components should be 10.
3. Given that "clear recent activity" is implemented correctly, users can clear their own recent activities by clicking on a button.

User Story #59

As a user, I want to see all of my notifications in one place.

Tasks	Status	Estimated Time	Owner
Create UI pop notification	Not started ▾	2 hours	Ali
Create a switch to toggle between receive and don't receive in app notifications in the edit profile section	Not started ▾	1 hour	Ali
Add general backend function to notify (poke) frontend to send in app notifications	Not started ▾	4 hours	Daniel
Manual tests for correctness + debugging	Not started ▾	1 hour	Brandon
Manual tests for error handling + debugging	Not started ▾	1 hour	Brandon

Acceptance Criteria

1. Given that the UI for the notification is implemented correctly, the user will be able to see in app notifications for threads and reviews that they are subscribed to.
2. Given that the UI for the notification is implemented correctly, the user will be able to toggle in app notifications on / off in the edit profile menu.
3. Given that the UI for the notification is implemented correctly, the notification will link the user to a page related to that notification.
4. The user will receive notifications in real time
5. Given the UI for notification is implemented correctly, the user will see a "badge" representing the number of unread notifications.

User Story #61

As a user, I want to be able to delete things I post such as threads, reviews, and comments.

Tasks	Status	Estimated Time	Owner
Create backend functions to delete threads/reviews/comments from database	Not started ˇ	2 hours	Brandon
Add UI option on thread, review, comment to delete	Not started ˇ	2 hours	Edward
Automatic tests for correctness + debugging	Not started ˇ	1.5 hours	Edward
Automatic tests for error handling + debugging	Not started ˇ	1 hour	Brandon

Acceptance Criteria

1. The user will be able to delete their threads, reviews, and comments after posting them.
2. Given that the delete functionality is implemented correctly, the thread, review, comment that the user deleted will be removed.
3. Given that the delete functionality is implemented correctly, the deletion process will display a confirmation that the thread, review, comment was deleted.
4. Given that a user clicks the "delete" button, they will be prompted with an "are you sure" style confirmation.
5. Given a user is prompted with an "are you sure" style confirmation, they will be able to click either "yes" or "no" and the website will either delete or not delete the content.

User Story #62

As a user, I want to be able to edit things I post such as threads, reviews, comments.

Tasks	Status	Estimated Time	Owner
Add edit UI for threads	Not started ˇ	1.5 hours	Edward
Add edit UI for reviews	Not started ˇ	1.5 hours	Edward
Add edit UI for comments	Not started ˇ	2 hours	Edward

Tasks	Status	Estimated Time	Owner
Write PATCH requests frontend	Not started ▾	2 hours	Sai
Create backend functions for edit	Not started ▾	3 hours	Brandon
Automatic tests for correctness + debugging	Not started ▾	1.5 hour	Sai
Automatic tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria
1. The user should be able to access an "Edit" option for each of their posts.
2. The user should see their changes persist after editing their thread, review, comment.
3. Given that "edit UI" is implemented correctly, the user should be able to confirm or cancel their edit when they are in the process of editing.
4. Given that a user clicks "cancel", their thread, review, comment, will not be deleted.

User Story #63
As a user, I want to be able to mark my notifications as read or unread.

Tasks	Status	Estimated Time	Owner
User Story 59	Not started ▾	See User Story 59	See User Story 59
Add read / unread UI	Not started ▾	2 hours	Brandon
API for read / unread	Not started ▾	2 hours	Daniel
Manual Tests for correctness + debugging	Not started ▾	1 hour	Sai
Manual tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria
1. Given "add read / unread UI" is implemented correctly, the user should be able to access a "Mark as Unread" option for each notification.
2. Given that a user marks a notification read or unread, they should see the update immediately.
3. The user should have an option to "read all" notifications which will mark them all as read.

4. Given that a user clicks on a notification, it should be marked as "read".

User Story #64

As a user, I want to receive notifications when a professor posts an announcement to a course that I have added to my "favorite courses".

Tasks	Status	Estimated Time	Owner
Merge "favorite courses" and "my courses"	Not started ▾	3 hours	Jacob
Add notification support to create thread API	Not started ▾	2 hours	Brandon
Automatic tests for correctness + debugging	Not started ▾	1 hour	Sai
Automatic tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria
1. Users should receive a notification when a professor posts to a courses' professor thread.
2. Given that the user does not have notifications turned on or the course isn't in their favorites, they should not receive a notification.
3. Given that the user has altered the original notification settings (email on, in-app on), notifications should abide by these changes.

User Story #65

As a user, I want to be able to add a "tag / topic" to the thread I create.

Tasks	Status	Estimated Time	Owner
Add UI for tags on threads	Not started ▾	3 hours	Edward
Add UI for filtering by tag	Not started ▾	3 hours	Edward
Update create thread API	Not started ▾	2 hours	Ali
Automatic tests for correctness + debugging	Not started ▾	1 hour	Sai
Automatic tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria

1. Given that "add UI for tags" is implemented correctly, the user will be able to select a tag / topic for threads that they create.
2. Given that "filtering by tag" is implemented correctly, the user will be able to filter threads by common tags such as "lecture", "coursework", etc.
3. Given that a user does not add a tag to their thread, they will be notified that they must include a tag and will not be able to create the thread until they do.

User Story #66

As a user, I want to be able to see a user's profile picture beside their username in threads, reviews, comments.

Tasks	Status	Estimated Time	Owner
Add UI to display the profile picture	In progress ▾	2 hours	Brandon
Profile picture links to user's profile	In progress ▾	1 hours	Ali
Manual tests for correctness + debugging	Not started ▾	1 hour	Sai
Manual tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria

1. Given that a user clicks on someone's profile picture in a thread, review, comment, they should be navigated to the user's profile.
2. Given that a user adds a profile picture to their account, it should be displayed beside their username in threads, reviews, comments.
3. Given that a user does not add a profile picture, the default profile picture should be shown.

User Story #67

As a group chat creator, I want to be able to edit my group chat (chat name and who is in it).

Tasks	Status	Estimated Time	Owner
User Story 49	Not started ▾	See User Story 49	See User Story 49
Add edit name UI	Not started ▾	2 hours	Ali

Tasks	Status	Estimated Time	Owner
Add UI for adding / removing users	Not started ▾	2 hours	Ali
Write PATCH request for chat name	Not started ▾	0.5 hours	Edward
Handle PATCH chat name	Not started ▾	1.5 hours	Jacob
Write PATCH request for adding / removing members	Not started ▾	2 hours	Edward
Handle PATCH add / remove members	Not started ▾	1.5 hours	Jacob
Automatic tests for correctness + debugging	Not started ▾	1 hour	Brandon
Automatic tests for error handling + debugging	Not started ▾	1 hour	Brandon

Acceptance Criteria

1. Given that a user is the group chat creator they will see an option to edit the group chat.
2. Given that a user is not the group chat creator, they will not see an option to edit the group chat
3. Given that a group chat owner adds a user to the group chat, other users will be able to see this addition.
4. Given that a group chat owner removes a user from the group chat, that user will no longer see that group chat in their list of chats.

User Story #68

As a user, I want to receive email notifications about direct messages every 5 unread messages.

Tasks	Status	Estimated Time	Owner
Create email notification api in the backend	Not started ▾	2 hours	Brandon
Integrate with external email API	Not started ▾	2 hours	Ali
Automatic tests for	Not started ▾	1.5 hour	Sai

Tasks	Status	Estimated Time	Owner
correctness + debugging			
Automatic tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria

1. Given that the directed messaging implementation is correct, the user will receive email notifications on direct messages from other users if enabled if there are 5 unread messages.
2. Given that the email notification is implemented correctly, the user will not be able to spam other users' inboxes with multiple direct messages—the email notifications will be every time the user has 5 unread messages.
3. Given that the email is sent to the user, the user will be linked to the direct message in the email.

User Story #69

As a user, I want to see a more exciting login page about things at Purdue (slideshow)

Tasks	Status	Estimated Time	Owner
Collect some images, Purdue related	Not started ▾	1 hour	Sai
Store images in backend	Not started ▾	1 hour	Daniel
Add Images to login page in a slideshow	Not started ▾	2 hours	Brandon
Manual Tests for correctness + debugging	Not started ▾	1 hour	Brandon
Manual Tests for error handling + debugging	Not started ▾	1 hour	Jacob

Acceptance Criteria

1. Given that the slideshow is implemented correctly, the user will be able to see the slideshow on the login page
2. Each image in the slideshow should have a caption or description that provides the user with relevant information about the image.
3. The slideshow should contain at least 5 photos related to Purdue.

User Story #70

As a user, I want to be able to see the timeline of my friends' activity.

Tasks	Status	Estimated Time	Owner
Store users' recent activity	Not started ▾	3 hours	Daniel
Write necessary backend for users to view their friends' recent activities	Not started ▾	3 hours	Jacob
Write POST request to store recent activity	Not started ▾	0.5 hours	Daniel
Write GET request to get friends' recent activity	Not started ▾	0.5 hours	Sai
Display recent activity of friends on the UI	Not started ▾	3 hours	Edward
Manual tests for correctness + debugging	Not started ▾	2 hours	Sai
Manual tests for error handling + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria
1. Given that a user navigates to their timeline, they will be able to see their friends' recent activity.
2. Given that a user has no friends in their friends list, the page will prompt them to add friends.
3. Given that a user clicks on their friend's username, they will be redirected to that user's profile page.

User Story #71
As a user, I want to be able to create a "club / group" on the clubs / groups page.

Tasks	Status	Estimated Time	Owner
GET requests	Not started ▾	0.5 hour	Daniel
Make UI display to show all pages that are created	Not started ▾	4 hour	Ali
POST requests	Not started ▾	0.5 hour	Brandon

Tasks	Status	Estimated Time	Owner
PATCH requests	Not started ▾	0.5 hours	Brandon
Make UI to create a new page with all information	Not started ▾	3 hours	Edward
Manual tests for correctness + debugging	Not started ▾	1 hour	Sai
Manual tests for error + debugging	Not started ▾	1 hour	Sai

Acceptance Criteria

1. Users can only create one club / group.
2. Given a user creates a club, other users will be able to join it.
3. Given a user joins a club, they will be able to start threads and create comments within that club.
4. Only the club owner can edit the club settings / information.

Remaining Backlog

Functional

User

1. ~~As a user, I want to be able to create an account.~~
2. ~~As a user, I want to be able to set my role (student vs prof).~~
3. ~~As a user, I want to be able to add my major (students) / area of practice (professors) to my profile.~~
4. ~~As a user, I want to be able to link my social media accounts (Facebook, Twitter, Instagram) onto my Apollo profile.~~
5. ~~As a user, I want to be able to add my class to my profile.~~
6. ~~As a user, I want to add my current courses to my profile.~~
7. ~~As a user, I want to be able to add a profile picture to my profile.~~
8. ~~As a user, I want the ability to make my personal information secure (public vs. private profiles).~~
9. ~~As a user, I want to be able to reset my password and username.~~
10. ~~As a user, I want to add an "about me" section on my account.~~
11. ~~As a developer, I want to verify that new users are students / professors at Purdue.~~

Class Homepage

12. ~~As a user, I want to be able to go to a class' homepage when I click on a class.~~
13. ~~As a user, I want to see a description of the class on its homepage.~~
14. ~~As a professor, I want to be able to add my own description of the class on its homepage.~~
15. ~~As a professor, I want to be able to upload new information or correct misinformation provided about the course I am teaching.~~
16. ~~As a professor, I want to link an up to date PDF of various class resources such as syllabi from previous semesters.~~
17. ~~As a user, I want to be able to see the professor(s) for a class on its respective homepage.~~
18. ~~As a user, I want to see the grade distributions of previous semesters in an elegant pie chart showing the percentages of different grades obtained in the class.~~
19. ~~As a user, I want to be able to see what semesters a class is being / has been offered in recent years.~~

20. ~~As a user, I want to be able to see what times a class is being offered during the current (or upcoming) semester.~~

21. ~~As a user, I want to see the ratings / reviews for the class.~~

22. ~~As a user, I want to be able to leave a detailed rating / review for the class.~~

23. ~~As a user, I want to be able to upvote / downvote reviews or questions that users post.~~

24. ~~As a user, I want to be able to star / pin / favorite classes that I have interest in.~~

25. ~~As a user, I want course content to be consistent with the current semester.~~

26. ~~As a user, I want to see the difficulty level (based on their ratings) of pairing this course with a course I choose.~~

27. ~~As a user, I want to see a leaderboard of the highest ranked classes at Purdue.~~

28. ~~As a user, I want to be able to post questions and receive answers from other users.~~

29. ~~As a user, I want ratings / reviews to contain more specific information such as difficulty, enjoyability, whether or not attendance is required, etc.~~

30. ~~As a professor, I want to be able to remove files from the course homepage.~~

Dining Court Homepage

31. ~~As a user, I want to be able to view a dining court's homepage when I click on it.~~

32. ~~As a user, I want to be able to view the menu for a specified dining court.~~

33. ~~As a user, I want to be able to view the hours for a specified dining court.~~

Map

34. ~~As a user, I would like to view an interactive map of campus on the map page~~

35. As a user, I would like search for buildings on the map

36. As a user, I would like to filter map pinpoints by libraries, restrooms, dorms, dining halls, etc.

37. As a user, I would like to get a brief blurb about the history of various locations across campus.

Other

38. ~~As a user, I want to be able to switch between light and dark mode~~

39. As a user, I want to be able to see information about Purdue buildings and history.

40. As a user, I want to be able to view the schedules for Purdue athletics

Search

41. ~~As a user, I want to be able to search for classes~~

42. As a user, I want to be able to search for other users on Apollo

43. As a user, I want to be able to search the Purdue directory

44. As a user, I want to be able to search for dining courts

45. As a user, I want to be able to search for buildings on campus

46. As a user, I want to be able to search for events.

47. As a user, I want to be able to search up study groups.

48. As a user, I want to be able to search for clubs.

49. As a user, I want to be able to search for study spaces.

Social Network Interactions

50. As a user, I want to be able to view other users' profile pages when I click on their name

51. As a user, I want to be able to send direct messages to one or multiple users.

52. As a user, I want the class group chat to be specifically for the current semester.

53. As a student, I want to be able to organize or attend study sessions / groups

54. As a student, I want to be able to see a ranking of all the different study spaces students use.

55. As a user, I want to be able to add / remove other users from my friends list

56. As a user, I want to be able to add / remove other users to my block list

57. As a user, I want to be able to receive email notifications for certain responses and posts

58. As a student, I want to see other people's plan of study in terms of future classes they would like to take or are looking to take.

59. As a user, I want to be able to see a user's recent activity (ex: their threads and comments) on their profile page.

60. As a user, I want to receive in-app notifications for threads and when people add me as a friend.

61. As a user, I want to be able to delete things I post such as threads, reviews, comments, direct messages.

62. As a user, I want to be able to edit things I post such as threads, reviews, comments.

63. As a user, I want to be able to mark notifications as read or unread.

64. As a user, I want to receive notifications when a professor posts an announcement to a course that I have added to my "favorite courses".

65. As a user, I want to be able to add a "tag" to the thread I create.

66. As a user, I want to be able to see a user's profile picture beside their username in threads, reviews, comments.

67. As a user, I want to be able to change the name of a group chat.

68. As a user, I want to receive occasional email notifications about direct messages.

69. As a user, I want to see a more exciting login page about things at Purdue (interactive slideshow)

70. As a user, I want to be able to see the timeline of my friends' activity.

71. As a user, I want to make organization/club pages that will be viewable to all other users. These pages will include: Common meeting time and space, description of the organization/club, and contact information.

Non-Functional

Scalability

1. As a user, I do not want to experience degradation in performance under load.

2. As a user, I do not want to lose data.

3. As a user, I want a reasonable response rate.

Usability / Clarity

4. As a user, I want an easy to understand user interface.

5. As a user, I want to navigate pages within the site without any issues.

Security

6. As a user, I want my account to be secure.

7. As a user, I want my private information to be kept private.