DevMatch

Team 17 Sprint 3 Planning Document

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Sprint Overview

For this sprint, we hope to complete the remaining features of our application, as well as refine previous features. We will want to develop basic voice chat functionalities as well as integrate real-time updates (using firestore) into more of our app's features. Overall, the goal for this sprint is to fully integrate all remaining UIs to the backend and database, as well as successfully develop the remaining user story features.

Scrum Master: Ling-jet Chee

Meeting Plan: Tuesday/Thursday 6 PM

Frontend: Auden Huang, Ling-jet Chee, Roberto Healy

Backend: Aditya Menon, Brian Qi, Jeff Chen

Risks and Challenges:

As this is the final sprint, there are a lot of functionalities and features to develop to ensure that the application feels completed by the end of the sprint. So the biggest challenge is being efficient with our time management. A risk of this sprint is potentially being too ambitious, and taking on more tasks than we have time for. In addition to the new user stories that we will be addressing this sprint, our team plans on restructuring and cleaning up some of the old features that the application heavily relies on, such as the search user functions. Aside from restructuring features, there were some user stories from previous sprints that we will have to attend to. Another challenge that we might face is allocating more time for feature testing, since during the last sprint we didn't write the tests until the very end.

Current Sprint Detail

User Story #1

As a project owner, I want to be able to remove users from my project if things don't work out

#	Description	Estimated Time	Assigned To
1	Create API for removing user in project	2 Hrs	Brian Qi
2	Create a UI to display users (separate from project overview), with options on the side of each user and connect it to the project index bar	1 Hr	Ling-jet Chee
3	In UI display of users in a project, create UI button to remove users, along with warning message	2 Hrs	Ling-jet Chee
4	Link API to UI	3 Hrs	Jeff Chen
5	Create unit tests to test API	1.5 Hrs	Brian Qi

- Given that the UI is implemented correctly, the project owner should see Manage Member tab in their project's index bar
- Given that the UI is implemented correctly, the project owner should see a list of all members (excluding the owner) in the member management page with an option to remove the user from the project.
- Given that the UI and the API is implemented and integrated correctly, when the
 project owner clicks to remove a member from the project, the member should be
 removed from the project (the removed user should be removed from the project's
 member list and the project should be removed from the removed user's project
 dashboard).

As a user, I want to be able to sort/filter projects by most recently posted, most relevant to me, project owner rating, etc.

#	Description	Estimated Time	Assigned To
1	Update feed API to filter by attribute (most recently posted, most relevant to me, project owner rating)	4 Hrs	Aditya Menon
2	Create UI for selecting attribute to filter by	1 Hrs	Ling-jet Chee
3	Link updated API to UI to automatically update feed order	2 Hrs	Bobby Healy
4	Create unit tests to test filtering projects	1.5 Hrs	Aditya Menon

- Given that the UI is implemented correctly, the user should see a list of attributes to filter by
- Given that the UI is implemented correctly, the user should see a list of projects with the attribute they sorted by
- Given that the UI and API are implemented and integrated correctly, when the user filters projects by an attribute, the projects in the database should be sorted on the feed properly

As a user, I want to be able to report other suspicious/malicious users

#	Description	Estimated Time	Assigned To
1	Create API to flag reported users	2 Hrs	Jeff Chen
2	Add report button UI	1.5 Hrs	Ling-jet Chee
3	Add UI to show project owner who was reported and why	2 Hrs	Ling-jet Chee
4	Link API to UI	2 Hrs	Jeff Chen
5	Create unit tests for UI	1.5 Hrs	Jeff Chen

- Given that the UI is implemented correctly, the user should be able to see a report button next to users
- Given that the UI is implemented correctly, the user should be able to send a report message with specifics about why they are reporting that user
- Given that the UI and API are implemented correctly, the project owner should see who was reported along with the report message

As a project owner and user, I want to be able to leave ratings on team members that I've worked with in the past

#	Description	Estimated Time	Assigned To
1	Create an API for storing the ratings and fetching the rating. Includes calculation of average rating	3 Hrs	Brian Qi
2	Create UI for rating other members	2 Hrs	Ling-jet Chee
3	Link API to UI (Displaying rating in profile)	2 Hrs	Jeff Chen
4	Create unit tests to test user rating	1.5 Hrs	Brian Qi

- Given that the UI is implemented correctly, the user should be able to see a button/interactive UI to rate other users, and use it
- Given that the UI is implemented correctly, the user should be able to see other user's rating next to their name/profile
- Given that the UI is implemented correctly, the user should be able to see their own rating in their profile

As a project owner, I want to be able to promote members in my project to have the capabilities of a project owner (transfer ownership, or have co-owners)

#	Description	Estimated Time	Assigned To
1	Create an API for storing the role of each member in the project	2 hrs	Aditya Menon
2	Create an API for fetching the role of each member in the project	2 hrs	Aditya Menon
3	Create API for promoting member roles	2 Hrs	Brian Qi
4	Update user management UI to display the role of each member and be able to promote a member and	1 Hr	Ling-jet Chee
5	Link API to UI	2 Hrs	Jeff Chen
6	Create unit tests for the 3 APIs	3 Hrs	Brian Qi

- Given that the UI is implemented correctly, the project owner should be able to see options to promote users in project overview
- Given that the UI is implemented correctly, users should be able to see their own and other user's role
- Given that the UI is implemented correctly, the promoted user should be able to see that they are now project owner/co-owner
- Given that the UI is implemented correctly, promoted users should be able to see all the relevant UI's and capabilities of a project owner

As a project owner, I want to be able to mark off the project's milestones and approve other members' requests for marking off any of the milestones.

#	Description	Estimated Time	Assigned To
1	Create API for marking milestones as done or not done	3 Hrs	Jeff Chen
2	Update UI to separate completed milestones from not completed ones	2 Hrs	Ling-jet Chee
3	Link API to UI	2 Hrs	Jeff Chen
4	Create unit tests for milestone completion	1.5 Hrs	Jeff Chen

- Given that the UI is implemented correctly, the project owner should be able to see a button for marking off milestones
- Given that the UI is implemented correctly, the project owner should be able to see request to mark of milestones from users
- Given that the UI is implemented correctly, project owner should be able to see completed and in progress milestones separated

As a user, I want to be able to pin & unpin messages in a chat room.

#	Description	Estimated Time	Assigned To
1	Added pin and unpin function to the message	1 Hrs	Auden Huang
2	Change the data structure from an array to collection and adjust the fetch messages function to be able to fetch the collection and display it (for both DM and GC)	2 Hrs	Auden Huang
3	Make two UI for pinned message (one for DM and one for GC) and linked it to the DM UI and the GC UI	2 Hrs	Auden Huang
4	Added backend functionalities to the pinned message section of the updated chat UI to display all the pinned message (for both DM and GC)	4 Hrs	Auden Huang
5	Make some test for the backend functionalities (Jest / Firebase auto-test)	1.5 Hrs	Auden Huang

- Given that the UI and API is implemented correctly, when a user chooses to pin a message, it should be reflected properly across all users that can see that message.
- Given that the UI and API is implemented correctly, when a user chooses to unpin a message, it should be reflected properly across all users that can see that message.
- Given that the UI and API is implemented correctly, messages should be able to be pinned in both DMs and Groupchats

As a user in a project, I want to be able to mark off project milestones, and the owner of the project must approve it so that it'll be marked as accomplished on the tracker

#	Description	Estimated Time	Assigned To
1	Create API to mark off project milestones	2 Hrs	Jeff Chen
2	Create API to Approve project milestones	2 Hrs	Bobby Healy
3	Create approval UI for project owners	3 Hrs	Ling-jet Chee
4	Link updated API to UI	2 Hrs	Bobby Healy
5	Create unit tests for user milestone approval	1.5 Hrs	Jeff Chen

- Given that the UI is implemented correctly, the user should be able to see a button to request marking off milestones
- Given that the UI is implemented correctly, the user should be able to send a request to the project owner to mark off milestones
- Given that the UI is implemented correctly, the user should be able to see completed and in progress milestones separated

As a project owner, I want to be able to set a limit to the number of members I am looking for.

#	Description	Estimated Time	Assigned To
1	Create API for tracking number of project members	2 Hrs	Jeff Chen
2	Update the project creation form so that the user can specify the maximum number of members they are looking for	1 Hr	Auden Huang
3	Update feed and project overview to show the max number of members, as well as current number of members in each project (This include adjusting the structure of project in the API)	1.5 Hrs	Auden Huang
4	Link API to UI	2 Hrs	Jeff Chen
5	Create unit tests to test API	1 Hr	Auden Huang

- Given that the UI is implemented correctly, when the user is trying to create a project, they should see a section in project creation form for setting the maximum number of members they are looking for.
- Given that the UI is implemented correctly, the user should see a section for displaying the current number and the max number of members of projects in the feed.
- Given that the UI is implemented correctly, the user should see a section for displaying the current number and the max number of members of the project in the project overview.
- Given that the UI and the API is implemented and integrated correctly, after the user sets the max number of users they are looking for for the project the feed and project overview should adjust accordingly.

As a project owner, I want my project to be hidden from other users other than the ones in my team once it has gathered the number of members that I have specified

#	Description	Estimated Time	Assigned To
1	Update the fetch project API to not fetch the project if the project is full	3 Hrs	Aditya Menon
2	Link API to UI	2 Hrs	Jeff Chen
3	Create unit test to test project hiding	1.5 Hrs	Jeff Chen

- Given that the API and UI are implemented correctly, once the maximum number of users has been reached, the UI should no longer display the project to users looking to join
- Given that the API and UI are implemented correctly, if the maximum number of members changes, it should display or not display on the UI accordingly
- Given that the API and UI are implemented correctly, projects should be visible to all users so long as the maximum number of members has not been reached

As a user, I want to be able to decline projects that I am not interested in being a part of

#	Description	Estimated Time	Assigned To
1	Add a button to the project component UI to stop showing specific projects on feed	1 Hrs	Ling-jet Chee
2	Create API to manage invitations	2 Hrs	Brian Qi
3	Link API to UI	2 Hrs	Bobby Healy
4	Make some test to the backend functionalities	1 Hr	Auden Huang

- Given that the UI is implemented correctly, users should be able to click on a button to decline invites to join projects
- Given that the UI and API is implemented correctly, when users decline an invitation the invitation disappears from the list of invitations.
- Given that the UI and API is implemented correctly, the list of invitations should grow when an invitation is received.

As a project owner, I want to be able to review the resumes/ skill of the applicants, so I can reject or accept the application.

#	Description	Estimated Time	Assigned To
1	Create UI for project owners to view potential user resumes	2 Hrs	Ling-jet Chee
2	Create API to retrieve info for user resumes	4 Hrs	Aditya Menon
3	Link API with UI	2 Hrs	Bobby Healy
4	Create unit test to test information retrieval	1.5 Hrs	Aditya Menon

- Given that the UI and API is implemented correctly, project owners should be able to view all of the relevant info (skills/resume) of potential candidates to join projects
- Given that the UI is implemented correctly, project owners should be able to accept or reject applications according to their preference
- Given that the UI is implemented correctly, once user applications are rejected or accepted, they should disappear from the list of applications

As a project owner, I want to be able to mark my project as completed after finishing the project.

#	Description	Estimated Time	Assigned To
1	Update Project API to include a complete attribute for each project	1 Hr	Brian Qi
2	Update the Update Project API to be able to update the complete attribute for the project	2 Hr	Brian Qi
3	Add a button with user restriction in the project space to mark the project as complete with a confirmation message	1 Hr	Ling-jet Chee
4	Integrating the API with the UI	2 Hrs	Auden Huang
5	Make some tests for the backend functionalities	1.5 Hr	Brian Qi

- Given that the UI is implemented correctly, when a project owner clicks on the complete button they should be shown a confirmation message.
- Given that the UI is implemented correctly, the confirmation message should ask the user to type in the word "complete" and the confirm button should be activated once the user key in the word "complete".
- Given that both the UI and the API are implemented correctly, after the project owner key in the word "complete" and click on the confirm button, the project should be shown as complete

As a user, I want the completed project to be in a different section than my ongoing project on the dashboard.

#	Description	Estimated Time	Assigned To
1	Create an API to get past projects of current user	3 Hrs	Brian Qi
2	Update the dashboard UI to have 2 section (one for ongoing project one for completed project)	2 Hrs	Ling-jet Chee
3	Link API to UI	2 Hrs	Ling-jet Chee
4	Create unit testing for getting past projects	1.5 Hrs	Brian Qi

- Given that the UI is implemented correctly, completed projects should be displayed in the appropriate section of the dashboard
- Given that the UI and API are implemented correctly, when a project is completed it should be added to the completed projects section of the dashboard
- Given that the UI is implemented correctly, the ongoing projects section of the dashboard should not contain completed projects, and update accordingly

As a project owner, I want to be able to see what projects the user has worked on through this application

#	Description	Estimated Time	Assigned To
1	Create an API that gets the past projects of another member	2 Hrs	Brian Qi
2	Create UI for the project owner to preview the applicant's past projects	2 Hrs	Ling-jet Chee
3	Link API to UI	2 Hrs	Bobby Healy
4	Create unit testing for getting past projects of another member	1 Hr	Brian Qi

- Given that the UI is implemented correctly, project owners should be able to select which user's past projects to preview
- Given that the UI and API are implemented correctly, when a project owner selects a user, the user's past projects should show up
- Given that the UI is implemented correctly, once the project owner no longer wants to view the past projects of a user, they should be able to close the portion of the screen displaying all of the information

As a user, I want to be able to specify how long I'm willing to work on project per week

#	Description	Estimated Time	Assigned To
1	Update the followup UI to include a field for specifying how long the user is willing to work.	1 Hr	Bobby Healy
2	Update the User struct in the API to include an attribute for how long a user is willing to work and update the addUser and getUser API to add and fetch the hour to and from the database	2 Hr	Bobby Healy
3	Integrate the backend with the UI	2 Hrs	Bobby Healy
4	Make some tests for the backend functionalities (Jest / Firebase auto-tests)	1 Hr	Bobby Healy

- Given that the UI is implemented correctly, users should be able to see a field to
 enter how many hours they are willing to dedicate to a project in their profile when
 they create a profile
- Given that the UI is implemented correctly, users should be able to update how many hours they are willing to work whenever they want in their profile
- Given that the UI is implemented correctly, users should be able to see how many hours other users are willing to work on a project

As a user, I want to be able to specify the minimum hour require hour per week for the project I'm creating

#	Description	Estimated Time	Assigned To
1	Update the project creation form to include a field for specifying the minimum hour require per week for the project	1 Hr	Bobby Healy
2	Update the project struct in the API to include an attribute for minimum hour require per week for the project, and update the addProject getProject API to store and fetch the hour in and from the database	2 Hrs	Bobby Healy
3	Integrate the API with the UI	2 Hrs	Bobby Healy
4	Make some tests for the backend functionalities (Jest / Firebase auto-tests)	1 Hrs	Bobby Healy

- Given that the UI is implemented correctly, when creating a project, users should be able to see a field to enter how many hours a project requires a user to dedicate to the project
- Given that the UI is implemented correctly, project owner should be able to update how many hours a project requires a user to dedicate
- Given that the UI is implemented correctly, users should be able to see how many hours a project requires a user to dedicate

As a user and project owner, I want to be able to adjust my preferences for what kind of users/projects are recommended to me. (Preferences such as languages, frameworks, distance from me, time willing to spend, etc.)

#	Description	Estimated Time	Assigned To
1	update search API to accepts preferences such as time willing to spend for user, and project type, require hours and/or language.	6 Hr	Aditya Menon
2	Create UI to select preferences	2 Hrs	Ling-jet Chee
3	Link API to UI	2 Hrs	Bobby Healy
4	Create unit testing for searching with preferences	1.5 Hrs	Aditya Menon

- Given that the UI is implemented correctly, users should be able to see a list of recommended preference
- Given that the UI is implemented correctly, users should be able to select a preference from the list
- Given that the UI and API are implemented correctly, when a user selects
 preferences, their recommendations should show up on the dashboard adhering to
 their preferences

As a project owner, I want to be able to demote members and take away certain capabilities

#	Description	Estimated Time	Assigned To
1	Create an API for demoting roles of member in projects and take away capabilities	2 Hrs	Brian Qi
2	Update user management UI to be able to demote a member	1 Hr	Ling-jet Chee
3	Link API to UI	2 Hrs	Bobby Healy
4	Create unit tests to check the API	1.5 Hr	Brian Qi

- Given that the UI is implemented correctly, project owners should be able to see options to demote users and take away certain capabilities
- Given that the UI is implemented correctly, when a project owner demotes a user or removes certain capabilities from them, the user should lose access to project owner permissions and those capabilities
- Given that both the UI and the API are implemented correctly, users should be able to see the updated user roles associated with themselves and other users if a demotion were to happen

As a project owner and user, I want to be able to see a list of users that I have worked with in the past

#	Description	Estimated Time	Assigned To
1	Create new collaboration UI page to display past users	2 Hrs	Ling-jet Chee
2	Create API to fetch and store users that have been worked with	3 Hrs	Aditya Menon
3	Link API to UI	2 Hrs	Bobby Healy
4	Create unit tests to check API	1.5 Hrs	Aditya Menon

- Given that the UI is implemented correctly, users should be able to see a tab linked to the collaboration UI
- Given that the UI is implemented correctly, users should be able to see a list of users in the collaboration page
- Given that the UI and API are implemented correctly, when the users are on the collaboration page, they should be able to see a list of all the users they've worked with

As a project owner and user, I want to be able to set up voice calls with my team (like voice channel in Discord)

#	Description	Estimated Time	Assigned To
1	Update group chat UI allowing the project owner to added (at least 1) voice channel	1 Hr	Auden Huang
2	Making UI for a voice chat room	1 Hr	Auden Huang
3	Add backend functionality to create a new voice channel (storing voice chatroom to the firebase when the project owner create a new voice channel)	1 Hr	Auden Huang
4	Add backend functionality to joining a voice channel(fetching the correct channel), connecting the voice input, syncing the members in the channel, muting and unmuting their mic, and displaying the user info with Agora. (This will take slightly longer since none of us has done work with Agora before and we also need to set up Agora)	7 Hrs	Auden Huang
4	Make some tests for the backend functionalities (Jest / Firebase auto-tests for the posting and fetching of the database with manual tests for the parts that are not related to database, which includes voice input, mute and unmute, and UI related things)	3 Hrs	Auden Huang

- Given that the UI is implemented correctly, the user should be able to see some name display in the chatroom with a mute button
- Given that the UI is implemented correctly, the project owner should be able to see an add button for creating a new voice channel next to the "VOICE CHANNELS" tag on the Groupchat's sidebar

- Given that the UI and backend functionalities are implemented correctly, the voice chatroom should display the user that's in the chatroom.
- Given that the UI and backend functionalities are implemented correctly, after the project owner creates a voice channel a voice channel should appear on the grouchat's side bar.
- Given that the UI and backend functionalities are implemented correctly, the user mic should be able to mute and unmute themself by clicking on the mute button

Remaining Backlog User Stories

- 1. As a user, I want to create an account (so that I can use the application).
- 2. As a user, I want to add details such as skills and interests to my account.
- 3. As a user, I want to create a project (so that I can find other teammates).
- 4. As a project owner, I want to edit the project (so that I can add details such as what it is and what I am looking for).
- 5. As a project owner, get recommended people who would fit in for the project.
- 6. As a project owner and user, I want to be able to message other users.
- 7. As a project owner and user, I want to be able to invite other users to join my project.
- 8. As a user, I want to have projects recommended to me.
- 9. As a user, I want to be able to search for other users.
- 10. As a user, I want to be able to join projects.
- 11. As a user, I want to have a text editor that I can use to drop down notes.
- 12. As a user, I want to be able to connect to other users.
- 13. As a user, I want to be able to see the projects I'm in.
- 14. As a user, I want to be able to be in a chat room with all the members within the same project (so that I can discuss the project with my teammates as a group).
- 15. As a user, I want to be able to look for a specific type of project: a project for a school module, a project for research, or a project for fun.
- 16. As a user, I want to be able to specify the type of project I'm posting. Either it is for my research, one of my modules, or just for fun.
- 17. As a project owner, I want to be able to mark my project as completed after finishing the project.
- 18. As a user, I want to be able to see the past project I've completed.
- 19. As a user, I want the completed project to be in a different section than my ongoing project on the dashboard (Like in two different drop-down lists, similar to those on Wikipedia).
- 20. As a user, I want to be able to adjust the order of the projects shown on my dashboard. (Like on Discord u can tap and drag on the server icon to change the order your servers display on the side bar).
- 21. As a project owner, I want to be able to review the resumes/ skill of the applicants, so I can reject or accept the application.
- 22. As a project owner, I want to be able to see who is in my project.
- 23. As a user, I want to be able to go between different chats with potential teammates or project owners
- 24. As a project owner and user, I want to be able to log in and log out of my account
- 25. As a user in a project, I want to be able to create tasks that can be marked as completed (like Trello)
- 26. As a project owner, I want to be able to remove users from my project if things don't work out
- 27. As a project owner, I want to be able to see what projects the user has worked on through this application
- 28. As a user and project owner, I want to be able to adjust my preferences for what kind of users/projects are recommended to me. (Preferences such as languages, frameworks, distance from me, time willing to spend, etc.)

- 29. As a user, I want to be able to set a profile picture
- 30. As a user, I want to be able to deactivate my account
- 31. As a user, I want to be able to submit ratings for other users I have worked with
- 32. As a project owner and user, I want to be able to create collaborative text documents to share with users within the same project
- 33. As a project owner, I want to be able to set a limit to the number of members I am looking for.
- 34. As a project owner, I want my project to be hidden from other users other than the ones in my team once it has gathered the number of members that I have specified
- 35. As a user, I want to be able to update the information on my profile whenever I want
- 36. As a user, I want to be able to decline projects that I am not interested in being a part of
- 37. As a user, I want to be able to sort/filter projects by most recently posted, most relevant to me, project owner rating, etc.
- 38. As a user, I want to be able to customize the UI (dark mode, light mode)
- 39. As a user, I want to be able to report other suspicious/malicious users
- 40. As a project owner, I want to be able to leave ratings on team members that I've worked with in the past
- 41. As a project owner, I want to be able to customize my project's dashboard (Project profile photo, project banner)
- 42. As a project owner, I want to be able to promote members in my project to have the capabilities of a project owner (transfer ownership, or have co-owners)
- 43. As a project owner, I want to be able to demote members and take away certain capabilities
- 44. As a user, I want to be able to go to the correct project space when I click on a project on the dashboard
- 45. As a project owner and user, I want to be able to see a list of users that I have worked with in the past
- 46. As a project owner and user, I want to be able to set up voice calls with my team (if time allows)
- 47. As a user in a project, I want to be able to set & remove team reminders.
- 48. As a user in a project, I want to be able to keep track of the project's milestones.
- 49. As a user in a project, I want to be able to mark off project milestones, and the owner of the project must approve it, so that it'll be mark as accomplished on the tracker)
- 50. As a user, I want to be able to pin & unpin messages in a chat room.
- 51. As a project owner, I want to be able to change the project name that'll be display on the dashboard of all members
- 52. As a project owner, I want to be able to create different channels for different tasks.
- 53. As a project owner, I want to be able to set the project's milestones
- 54. As a project owner, I want to be able to mark off the project's milestones, and approve other members' requests for marking off any of the milestones.
- 55. As a user, I want to be able to write on a blackboard/ whiteboard while in a call. (If time allows)
- 56. As a user, I want to be able to set a recurring call. (If time allows)
- 57. As a user, I want to be able to cancel a recurring call. (If time allows)
- 58. As a user in a project, I want to be able to share my screen while in a call with my teammates. (If time allows)