

# DevMatch

## Team 17 Sprint 1 Planning Document

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### Sprint Overview

For this Sprint, we hope to set up a basic framework for our application. We want to set up a backend API for login, account creation, etc. We want a basic frontend UI to be displayed and have it connect with the backend API. We also want to set up our database to store user accounts for example. Once these are done, we also plan to host our web app on a server.

**Scrum Master:** Roberto Healy

**Meeting Plan:** Tuesday/Thursday 6 PM

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

**Backend:** Aditya Menon, Brian Qi, Jeff Chen

#### **Risks and Challenges:**

Since this is our first sprint as a team, and we plan on using many different frameworks that members of the group haven't worked with before, the primary challenge is efficiently learning to utilize unfamiliar tools to create quality software. It is crucial that we get the hang of using Firebase, React, and Golang so that we can meet our time estimates. The other significant challenge we might face is keeping up communication between Frontend and Backend teams to ensure that the entire group stays on the same page.

# Current Sprint Detail

## User Story #1

As a user, I want to create an account (so that I can use the application).

#	Description	Estimated Time	Assigned To
1	Set up a database to store accounts	3 Hrs	Aditya Menon
2	Create account sign-up/login API that creates and stores user or logs in if already exists	10 Hrs	Brian Qi
3	Create UI for sign-up/login page	4 Hrs	Roberto Healy
4	Add unit tests that check if the API is correctly creating and storing user	2 Hrs	Brian Qi

**Total: 19 hours**

### Acceptance Criteria:

- Given that the UI for the sign-up and the login page is implemented correctly, when the user is at the login page, the user should be able to see a login button and a sign-up button
- Given that the UI for the sign-up and the login page is implemented correctly, when the user is at the sign-up page, the user should be able to see a create account button
- Given that the API for sign-up/ login is correct, when the user clicks on the create account button on the sign-up page, the database should store the new account with the information that the user has put in
- Given that the API for sign-up/ login is correct, when the user clicks on the login button on the login page, if the info is correct, the correct account should be retrieved from the database, else if the info isn't correct or the account doesn't exist, then the user should be able to see a warning.

## User Story #2

As a user, I want to add details such as skills and interests to my account.

#	Description	Estimated Time	Assigned To
1	Create API that allows users to add information to their account and stores it in the database (Includes creating SkillList)	4 Hrs	Aditya Menon
2	Create a follow-up UI page to signup that asks the user for more information (Includes using SkillList from database)	3 Hrs	Ling-jet Chee
3	Create a UI account page where users can look at/edit their info (Inclu)	3 Hrs	Auden Huang
4	Creating the SkillList on the database	2 Hrs	Jeff Chen
5	Create unit tests that use the API to update a user and check if the database was updated	2 Hrs	Jeff Chen

**Total: 14 hours**

### Acceptance Criteria:

- Given that the UI for the follow-up page is implemented correctly, when the user is at the follow-up page, a list of skill tabs should be displayed for the user to select.
- Given that the UI for the account page is implemented correctly when the information is too and can't fit into the view, the user will be able to scroll down to access the rest of the information
- Given that the API is implemented correctly when the user makes edits to their account, those changes should be sent to and stored in the database, and display it on their account page accordingly
- Given that the API is implemented correctly after the user selects their skill tabs on the follow-up page, the correct list of skill should be linked to their account in the database, and display it on their account page accordingly

## User Story #3

As a user, I want to create a project (so that I can find other teammates).

#	Description	Estimated Time	Assigned To
1	Create API to create and or update a project and store it in the database	4 Hrs	Brian Qi
2	Create UI for project management page	3 Hrs	Auden Huang
3	Creating project schema	2 Hrs	Roberto Healy
4	Create UI for a project creation form	3 Hrs	Roberto Healy
5	Create unit tests that use API to create a project and check that the project is created on database with the right properties	3 Hrs	Auden Huang

**Total: 15**

### Acceptance Criteria:

- Given that the UI for the project management page is implemented correctly, when the user clicks on the create new project button, the user should be met with a project creation form.
- Given that the UI for the project management page is implemented correctly, when the user clicks on the edit button, the user should be able to change the information of their project and click on a cancel button or a save button.
- Given that the UI for the project creation form is implemented correctly, when the webpage displays the form, the user should be able to fill in the information for their project, and be able to scroll through the form (if needed),
- Given that the API to create and update the project is implemented correctly, when the user clicks on the create button on the creation form, the project should be saved to the database with the information that the user has provided on the form, and displayed on the project management page accordingly.
- Given that the API to create and update the project is implemented correctly, when the user clicks on the save button while editing their project information, the database should update accordingly and display the updated information on the project management page.

## User Story #4

As a project owner, get recommended people who would fit in for the project.

#	Description	Estimated Time	Assigned To
1	Create a search API that searches users in the database based on certain criteria	5 Hrs	Aditya Menon
2	Create UI with a feed of people recommended for the project, including creating the user preview component	4 Hrs	Roberto Healy
3	Create unit tests that use search API and get back the expected results	3 Hrs	Aditya Menon

**Total:12 hours**

### Acceptance Criteria:

- Given that the UI for the specific project's teammates recommendation is implemented correctly, when the project owner(s) is on the search for teammates page, the project owner(s) should be able to see the user preview of the people in their feed.
- Given that the search API is implemented properly, the project owner(s) should see a feed of recommendations when they open the search for teammates page.
- Given that the search API is implemented properly, the feed of recommendations should change over time as specifications change and new users are added and removed from the database.

## User Story #5

As a project owner and user, I want to be able to message other users.

#	Description	Estimated Time	Assigned To
1	Create an API that creates/updates a DirectMessage between two users and adds a message and stores it on the database	5 Hrs	Jeff Chen
2	Create UI for DirectMessage between two users	3 Hrs	Auden Huang
3	Create unit tests that use API and checks the messages are correctly saved on the database	2 Hrs	Jeff Chen

**Total: 10 hours**

### Acceptance Criteria:

- Given that the API for creates/updates a DirectMessage is implemented correctly, after the user sent, edited or removed a message, the correct messages should be displayed on the UI
- Given that the UI for DirectMessage is implemented correctly, when the user goes to their direct message with another user, the user should be able to type in some text and see a send button
- Given that the UI for DirectMessage is implemented correctly, if the message goes beyond the view, the user should be able to scroll up/down to access them

## User Story #6

As a project owner and user, I want to be able to invite other users to join my project.

#	Description	Estimated Time	Assigned To
1	Create UI for project preview component and add a button to invite people with backend functionality	4 Hrs	Roberto Healy
2	UI uses the send message API with a predetermined link that invites people to view the project	3 Hrs	Roberto Healy
3	Create unit test to make sure message is sent correctly	1 Hrs	Roberto Healy

**Total:8 hours**

### Acceptance Criteria:

- Given that the UI for project preview and the backend functionality of the page is implemented correctly, when the user is on the project preview page, a list of recommended users will be displayed with a send invite button, and the user should be able to scroll through the list if the list exceeds the view.
- Given that the invitation API is implemented correctly, when the user taps on the invite button, an invitation to join the team should be sent and received by the targeted user
- Given that the invitation API is implemented correctly, when the targeted user accepts the invitation, the database should update the project information accordingly, and the updated member list for that project should be displayed on all the related UI

## User Story #7

As a user, I want to have projects recommended to me.

#	Description	Estimated Time	Assigned To
1	Update search API to include the ability to recommend projects according to the user's specification	4 Hrs	Aditya Menon
2	Create UI with a feed of recommended projects, using the user preview component (main project feed)	5 Hrs	Ling-jet Chee
3	Create unit tests that search for specific projects and get back correct result	2 Hrs	Aditya Menon

**Total: 11 hours**

### Acceptance Criteria:

- Given that the UI for the project feed is implemented correctly, when the user is at the project feed page, the user should be able to see the preview of each of the projects in their feed.
- Given that the search API is updated correctly, the user should see a feed of recommendations when they open the project feed page.
- Given that the search API is updated correctly, the feed of recommendations should change over time as new projects are created, or as the specifications of a user change.



## User Story #8

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

#	Description	Estimated Time	Assigned To
1	Update search API to include the ability to search users based on recommendations	4 Hrs	Brian Qi
2	Create UI with a feed of recommended people (main feed)	4 Hrs	Ling-jet Chee
3	Create UI for the search bar and filters that fetch specific users based on criteria	3 Hrs	Roberto Healy
4	Update search API to include the ability to filter users based on the tags/ input that the searcher put down	2 Hrs	Auden Huang
5	Add unit tests for specific search scenarios	1 Hrs	Brain Qi

**Total: 14 hours**

### Acceptance Criteria:

- Given that the UI for user feed is implemented correctly, when the user is on their user feed page, the user should be able to see the preview of each of the users on their feed.
- Given that the UI for the search bar is implemented correctly, when the user is on their user feed page, the user should be able to select some tag or type in some words on the search bar.
- Given that the search API is updated correctly, when the user is on their user feed page, the user should be presented with a list of recommended users with similar user specifications with the user.
- Given that the search API is updated correctly, after the user puts in some information on the search bar, the user's feed should be updated according to the information.
- Given that the search API is updated correctly, the feed of recommendations should change over time as specifications change and new users are added and removed from the database.

## User Story #9

As a user, I want to be able to join projects.

#	Description	Estimated Time	Assigned To
1	Create API that adds a user to a project's members, also create API to remove a given member	4 Hrs	Brian Qi
2	Create UI with buttons on projects to be able to join	2 Hrs	Auden Huang
3	Add unit tests that add and remove a user from a project	2 Hrs	Brian Qi

**Total:8 hours**

### Acceptance Criteria:

- Given that the UI with buttons on projects to be able to join is implemented correctly, when the user is on the browsing page, projects that are open should all be individually displayed with an "apply to join" button
- Given that the API is implemented properly, when the user taps the "apply to join" button, the application of the user should be sent to the project owner.
- Given that the API is implemented properly, when the user successfully joins a project, the database should be updated accordingly

## User Story #10

As a user, I want to be able to go to the correct project space when I click on a project on the dashboard

#	Description	Estimated Time	Assigned To
1	Create API to get a single project and its information	3 Hrs	Jeff Chen
2	Create UI for the project space	2 Hrs	Auden Huang
3	Add unit test for API that gets specific project	1 Hrs	Jeff Chen

**Total:6 hours**

### Acceptance Criteria:

- Given that the UI for the project space is implemented correctly, when the user attempts to view information that is too big for the screen to hold, they should be able to scroll down the page for access.
- Given that the API for getting a single project and its information is implemented correctly, when the user clicks on a project, the user should be led to the correct project space.
- Given that the API for getting a single project and its information is implemented correctly, when the user is in a project space, the correct information should be displayed.

## User Story #11

As a project owner, I want to be able to see who is in my project.

#	Description	Estimated Time	Assigned To
1	Include a user preview tab on the project dashboard	2 Hrs	Auden Huang
2	Implement backend to project dashboard UI	4 Hrs	Auden Huang
3	Add unit tests to make sure users appear correctly in the preview tab	2 Hrs	Auden Huang

**Total: 8 hours**

### Acceptance Criteria:

- Given that the UI is implemented properly, when the project owner(s) is on the project dashboard, the users should be able to see a user preview tab.
- Given that the backend of the project dashboard is implemented correctly, when the project owner(s) expands the preview tab on the project dashboard, other users in their project should be correctly listed on the user preview tab.
- Given that the backend of the project dashboard is imported correctly, when the project owner adds or removes members, the member list on the preview tab should update accordingly

**User Story #12** As a user, I want to be able to set a profile picture

#	Description	Estimated Time	Assigned To
1	Create API to specifically update and upload a user's profile picture	3 Hrs	Jeff Chen
2	Add UI for user profile picture upload to the account page	2 Hrs	Auden Huang
3	Add unit tests to make sure picture is updated on the database	1 Hrs	Jeff Chen

**Total: 6 hours**

**Acceptance Criteria:**

- Given that the UI is implemented properly, when the user is on their account page, the user should see an image space for a profile picture and an upload button under the image space.
- Given that the UI is implemented properly, after the user clicks on the upload button, the button label should be changed to save.
- Given that the API for updating and uploading works correctly, after the user clicks on the upload button under their profile picture, the user should be able to access their local disk to select an image to upload.
- Given that the API for updating and uploading works correctly, after the user selects an image to upload, the correct picture should be presenting the image space as a preview.
- Given that the API for updating and uploading works correctly, after the user selects an image to upload and clicks the save button, the correct image should be stored in the database and attached to their account, and the photo on their account page should be updated permanently on their account page

## User Story #13

As a user, I want to be able to deactivate my account

#	Description	Estimated Time	Assigned To
1	Create API that eliminates account and eliminates and updates projects the user is included in when removed, it would also remove any messages	10 Hrs	Jeff Chen and Roberto Healy
2	Add to the user UI a button to deactivate the account and add a protection layer on the frontend (writing the name of the user or safety questions)	3 Hrs	Ling-jet Chee
3	Add unit testing to make sure accounts are removed correctly and make sure member is removed from projects	3 Hrs	Jeff Chen

**Total: 16 hours**

### Acceptance Criteria:

- Given that the API is implemented properly, when the user taps the delete account button, all of the user data should be deleted and all the projects the user is in should be updated accordingly from the database
- Given that the delete account button is implemented correctly on the UI, when the user is on their account page, the user should be able to see the delete button, and a cell for the safety question
- Given that the API is implemented properly, after a user has deleted their account, the user's past message will be removed from all the chat history, and the direct message chats they have with other users will be removed as well.

### User Story #14

As a project owner, I want to be able to customize my project's dashboard (Project profile photo, project banner)

#	Description	Estimated Time	Assigned To
1	Create API to upload/update project profile	2 Hrs	Aditya Menon
2	Create API to upload/update project banner	2 Hrs	Aditya Menon
3	Create UI components to show project profile and banner and edit section for project owners	4 Hrs	Ling-jet Chee
4	Create simple unit tests to make sure change is reflected on database	1 Hrs	Aditya Menon

**Total: 9 hours**

#### Acceptance Criteria:

- Given that the project profile API is implemented properly, the project owner should be able to upload/update project profiles and/ or banners and have them stored in the database
- Given that the project profile API is implemented properly, after the project owner changes the project profiles and/ or banners, the project information should be updated on all the pages related to it.
- Given that the UI is implemented properly, users should be able to view and click an edit button opening a form to submit changes to their project profile and banner

## User Story #15

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).

#	Description	Estimated Time	Assigned To
1	Create API to update the project details including things like project requirements	2 Hrs	Brian Qi
2	Create UI to edit project details, similar to the creation form	2 Hrs	Ling-jet Chee
3	Add unit tests to check if changes are reflected on the database	1 Hrs	Brian Qi

**Total: 5 hours**

### Acceptance Criteria:

- Given that the API is implemented properly, users should be able to submit changes to their project and have them stored in the database
- Given that the API is implemented properly, changes made to a project should be visible to other users searching for a project
- Given that the UI is implemented correctly, users should be able to click on an edit button opening a form to update details related to the project.



## User Story #16

As a user, I want to be able to see the projects I'm in.

#	Description	Estimated Time	Assigned To
1	Add a filter to the search API that allows filtering by the user for the project they are in	4 Hrs	Aditya Menon
2	Create a UI dashboard to see all the projects a user is in	5 Hrs	Ling-jet Chee

**Total: 9 hours**

### Acceptance Criteria:

- Given that the filter is implemented correctly, when the user attempt to filter the projects they are in, the correct list of projects should be displayed on their dashboard
- Given that the UI for dashboards is implemented correctly, when the user attempts to view information that is too big for the dashboard to hold, the user should be able to scroll down/sideway on the dashboard for access
- Given that the API is implemented properly, the user's project list should be updated when the user finishes a project they are in or when they exit/delete a project.

## User Story #17

As a user, I want to be able to adjust the order of the projects shown on my dashboard.

#	Description	Estimated Time	Assigned To
1	Update the UI to allow drag and drop	2 Hrs	Auden Huang
2	Add the functionality of adjusting the order of the projects on the dashboard	3 Hrs	Jeff Chen

**Total: 5 hours**

### Acceptance Criteria:

- Given that the UI is implemented correctly, when the user is on the dashboard, the user should be able to drag and drop the project title
- Given that the functionality of adjusting order is implemented correctly, when the user attempts to adjust the order of the projects displaying on the dashboard, the project should move to the correct position

- Given that the functionality of adjusting project position on the dashboard is implemented correctly, changes to the order should be sent to and correctly stored in the database

## User Story #18

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).

#	Description	Estimated Time	Assigned To
1	Add a group chat API that creates/updates group chats by adding messages	6 Hrs	Roberto Healy
2	Implement a group chat into the project dashboard	5 Hrs	Ling-jet Chee
3	Add units tests for the group chat API, make sure messages are saved correctly on the database	3 Hrs	Auden Huang

**Total: 14 hours**

### Acceptance Criteria:

- Given that the API for group chat is implemented correctly, after a user in a project sent, edited or removed a message, the correct messages should be displayed on the UI of all the members in the project.
- Given that the UI for group chat is implemented correctly, when the user goes to their group chat for one of their projects, the user should be able to type in some text and see a send button.
- Given that the UI for group chat is implemented correctly, if the message goes beyond the view, the user should be able to scroll up/down to access them.

## 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 in a project, 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 user, I want to be able to see the past project I've completed.
18. 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).
- ~~19. 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).~~
20. 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.
- ~~21. As a project owner, I want to be able to see who is in my project.~~
22. As a user, I want to be able to go between different chats with potential teammates or project owners
23. As a project owner and user, I want to be able to log in and log out of my account
24. As a user in a project, I want to be able to create tasks that can be marked as completed (like Trello)
25. As a project owner, I want to be able to remove users from my project if things don't work out
26. As a project owner, I want to be able to see what projects the user has worked on through this application
27. 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.)
- ~~28. As a user, I want to be able to set a profile picture~~
- ~~29. As a user, I want to be able to deactivate my account~~
30. As a user, I want to be able to submit ratings for other users I have worked with
31. As a project owner, I want to be able to create collaborative text documents to share with users who I have added to my project
32. As a project owner, I want to be able to set a limit to the number of members I am looking for.

33. 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
34. As a user, I want to be able to update the information on my profile whenever I want
35. As a user, I want to be able to decline projects that I am not interested in being a part of
36. As a user, I want to be able to sort/filter projects by most recently posted, most relevant to me, project owner rating, etc.
37. As a user, I want to be able to customize the UI (dark mode, light mode)
38. As a user, I want to be able to report other suspicious/malicious users
39. As a project owner, I want to be able to leave ratings on team members that I've worked with in the past
- ~~40. As a project owner, I want to be able to customize my project's dashboard (Project profile photo, project banner)~~
41. 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)
42. As a project owner, I want to be able to demote members and take away certain capabilities
- ~~43. As a user, I want to be able to go to the correct project space when I click on a project on the dashboard~~
44. 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
45. As a project owner and user, I want to be able to set up voice calls with my team (if time allows)
46. As a user in a project, I want to be able to set & remove team reminders.
47. As a user in a project, I want to be able to keep track of the project's milestones.
48. 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)
49. As a user, I want to be able to pin & unpin messages in a chat room.
50. As a project owner, I want to be able to change the project name that'll be display on the dashboard of all members
51. As a project owner, I want to be able to create different channels for different tasks.
52. As a project owner, I want to be able to set the project's milestones
53. 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.
54. As a user, I want to be able to write on a blackboard/ whiteboard while in a call. (If time allows)
55. As a user, I want to be able to set a recurring call. (If time allows)
56. As a user, I want to be able to cancel a recurring call. (If time allows)
57. 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)