

FYP

PROJECT

ITERATION 3-

Gymbud

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1. Executive Summary

This report details the user stories I undertook as part of this iteration and to date, what they involved and how they were implemented. I attempted 3 user stories in this two-week timeframe and aimed to successfully complete and add them to my project. Report details failing issues and risks but ultimately progression and the completion of these attempted user stories.

2. Product Backlog List

ID	As a...	I want to be able to...	So that...	Priority	Sprint	Status
1	Developer	Be connected to the DB	Users don't have to register every time they open their app	Must	1	Done
2	Developer	Read from the DB	Users have the ability to view all their information and other users' information they have entered.	Must	1	Done
3	Developer	Write to the DB	Users can invariably enter their information so that they can get the best out of the app	Must	1	Done
4	Developer	Update records in the DB	Users can keep other users informed of the changes in my fitness levels/ intensity of my training	Must	2	Done

5	Developer	Delete records in the DB	Users can invariably delete their account if needs be or if admin needs to delete accounts for some reason	Must	2	Done
6	User	Log In / Sign Up	I can use the app to its fullest / maximum potential	Must	2	Done
7	Developer	Upload user photos to be stored	Users can have a profile pic to give other users an indication as to who they're actually communicating with on the app	Should	3	Done
8	User	Upload profile pic	People can have a fairly decent picture of who they're dealing or meeting up with, somewhat preventing malicious behavior on the app	Should	3	Done

9	User	Decide whether I prefer a video/ in-person session	I can tailor my schedule around the session	Should	3	Done
10	User	Decide upon my preferred age/location range	I am setting up a session with an individual around my age bracket or near at hand if I'm participating in an in-person session	Should	3	Done
11	User	Tailor my session preferences/ settings to my own levels/ needs	I can get the best out of the app and participate in sessions where I'm not out of my depth	Should	3	Done
12	User	Update my profile	I can keep my details up to scratch	Should	4	Not Started
13	User	Update my session preferences/ settings	I can keep other users informed of the changes in my fitness levels/ intensity of my training	Should	4	Not Started

14	User	Get an overview of my planned sessions	I have a good indication of when the next session is taking place and the details surrounding the session	Should	4	Not Started
15	User	Make another user a "Gymbud"	I can set recurring sessions with a user who has the same preferences as me or just to communicate with	Should	4	Not Started
16	User	Match with users of similar session or fitness preferences	I can participate in the session and not feel overwhelmed as my partner is at a different level physically	Should	4	Not Started
17	User	View a members profile	Again, I know who I'm dealing with while communicating on the app but also to decide whether I would like to set up a session	Should	4	Not Started

18	User	Plan a session	I can use the app to its fullest / maximum potential	Should	4	Not Started
19	Developer	Refuse entry for users who are under the minimum age of 18	I can avoid potential legal issues down the line.	Should	6	Not Started
20	User	Message users	I can arrange any last-minute changes / agree on details surrounding our session	Could	5	Not Started
21	User	Video call	I am able to participate in the virtual session and also because it should be available as an option	Could	5	Not Started
22	User	Join a link for a video session	I am able to participate in the virtual session	Could	5	Not Started
23	User	Report users for not showing up to sessions either virtually or in-person	Other users don't waste their time and effort setting up a session with a person who's unreliable	Could	6	Not Started

24	Developer	Suspend users for not showing up	Other users don't waste their time and effort setting up a session with a person who's unreliable	Could	6	Not Started
25	User	Make goals	I can have some sort of extra motivational factor to keep me on track to complete sessions	Could	6	Not Started
26	User	Login with Facebook	I can sign up/login in the most efficient manner possible	Could	5	Not Started
27	User	Have an overview page of everything I can achieve within the app	I can have easy access to my buds, calendar, and my profile settings	Must	1	Done

3. User Stories Delivered

ID	As a...	I want to be able to...	So that...	Priority	Sprint	Status
7	Developer	Upload user photos to be stored	Users can have a profile pic to give other users an indication as to who they're actually communicating with on the app	Should	3	Done
8	User	Upload profile pic	People can have a fairly decent picture of who they're dealing or meeting up with, somewhat preventing malicious behavior on the app	Should	3	Done
9	User	Decide whether I prefer a video/ in-person session	I can tailor my schedule around the session	Should	3	Done
10	User	Decide upon my preferred age/location range	I am setting up a session with an individual around my age bracket or near at hand if I'm participating in an in-person session	Should	3	Done
11	User	Tailor my session preferences/ settings to my own levels/ needs	I can get the best out of the app and participate in sessions where I'm not out of my depth	Should	3	Done

7. Developer

This user story involved setting up Firebase within my project to be able to use Firebase Storage with IOS and Android. This was tricky at first but I had done it before just not for IOS which proved to be the difficult part. As it wouldn't stop giving me configuration errors to do with IOS' dependency manager Carthage and Ruby, I had to make a minor adjustment and after a while debugging I then tried to set up a user through the Postman app with an image url and all was good with the app, and managed to store user's profile pic within the storage bucket on Firebase.

8. User

This user story was basically a follow on and seeing the User Story 7 from the user's perspective. I just had to try and basically sign up to my app and register a new user like I would do with any other application and hope that the same process would be followed behind the scenes and I would be taken through the process error free and would end up with a profile picture at the end attached to my new registered user profile.

9. User

This user story was more or less in the same process I needed a way to distinguish which users have signed up to be recommended with sessions that are performed in house or in person as I don't want to foresee a situation where one user wants to complete the session in person and the other user may not want to and may feel uncomfortable doing so. The completion of this step allows this situation to never develop

10. User

This user story was again more or less in the same process as user stories above, I needed a way to distinguish ultimately which users need to be shown to prospective users of the app based on their age. Ultimately I didn't want to have a situation within the app where a user wants to get involved with an activity but simply can't as the age range of the users already in the session is uncomfortable for them.

11. User

Finally, the last user story basically encompasses all of the user stories above, I needed a method by which users in my app could tailor their session preferences to suit their needs. Through the registration process, I have thus allowed this situation to develop and ultimately this will be the pinnacle of whether the app will be a success or not, whether or not users can tailor their preferences and their sessions/ activities to their liking so that they would only be recommended ones which they invariably also deem suitable to those aforementioned preferences. With this knowledge, other users also see that user's preferences and know whether they would be suitable person to ask to join in their session / activity.

4. Test Plan

Test Case ID	User Story	Description	Test Step	Expected Results	Actual Results	Comments
8	7	Testing making a POST request to the DB to register a User with a Profile Pic	Testing posting a profile pic to the DB through Postman	New User should have a profile picture	New User had a profile picture when outputted to the screen	Now my DB is fully able to create users data with a profile picture
9	8	Signing up as a user on the frontend to see if a profile pic would be attached to the user	Testing signing up as a user on the frontend to see if a profile pic would be attached to the user	A user to be set up and have a profile picture attached to them when they login to the app	A user was outputted to the frontend screen with an attached profile pic	Now my users have profile pictures attached to them and should be able to distinguish each other by their pictures
10	9	User decides whether they prefer a video/ in person session	Registering to my app and picking an option from the video/ in person	The new registered user will have a video/ in person session preference attached to them based on their selection	The new user was outputted to the screen with their respective selected choice of video/ in person	Now Users can then indicate whether they want to be matched with in person sessions or video

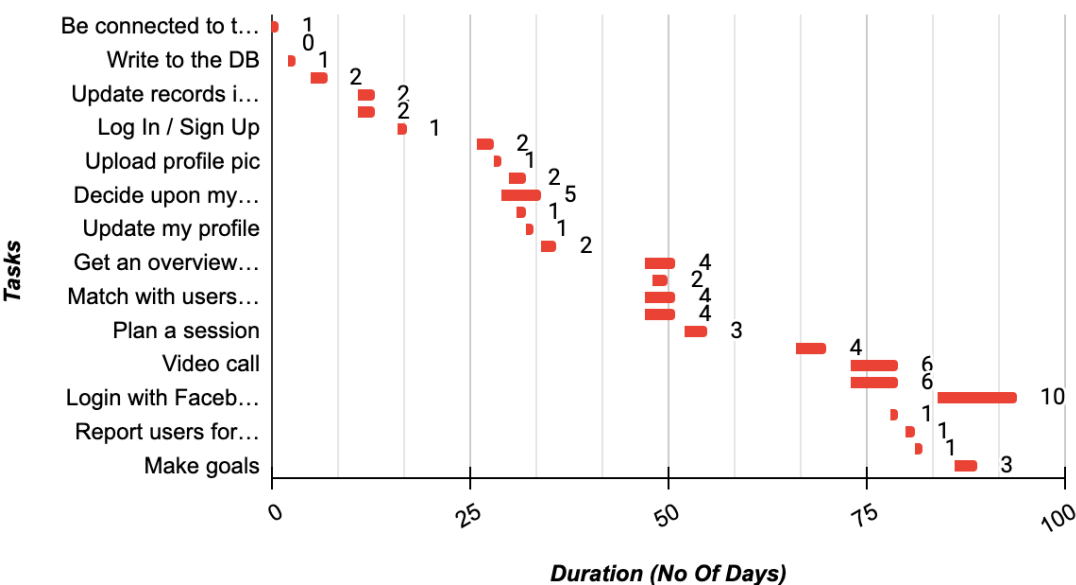
11	10	User decides their preferred age range	Registering to my app and selecting my preferred age range	The new registered user will have a age range session preference attached to them based on their selection	The new user was outputted to the screen with their respective selected choice of age range	Now Users can select their preferred comfortable age range that they would like to do a session with
12	11	User tailors their preferences to their own needs	Registering to my app and selecting my session preferences	The new registered user will have session preferences attached to them based on their selection	The new user was outputted to the screen with their respective selected session preferences / choices	Now I have attributes to work with that are attached to users so that I can make some sort of algorithm mashup and make a recommendation

5. Development Kanban

User Story No.	Product Backlog	Iteration Backlog	Development Doing Done	Testing Doing Done	Implemented	Issues/Risks
7	7	N/a	Done	Done	Done	N/a
8	8	N/a	Done	Done	Done	N/a
9	9	N/a	Done	Done	Done	N/a
10	10	N/a	Done	Done	Done	N/a
11	11	N/a	Done	Done	Done	N/a

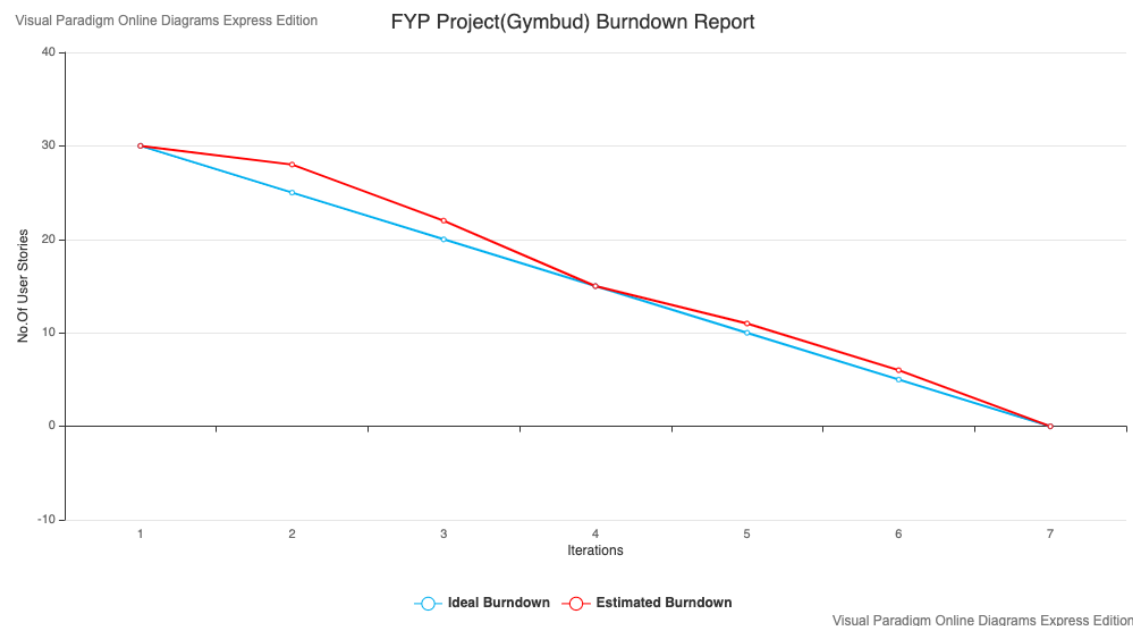
6. Updated Gantt Chart

FYP Gymbud Gantt Chart



As is depicted above, the breakdown of how long (days-wise) I'm going to spend on each user story.

7. Burndown Report



8. Issues, Risks, and Learning Points

Over the course of this iteration, numerous issues, risks, and learning points were observed by myself. This was especially true when it came to programming with Flutter and developing the front end. I had a bit of experience with Flutter before this project as I tried a few examples of applications of using this language over the summer but not to the extent that I had to do for this project. My lack of knowledge is undoubtedly consequently a massive risk and as such, I faced a lot of issues while utilizing this programming framework. The issues I faced were concerned with passing the data through the respective pages and using state management within my application and being able to present the retrieved data accordingly inside in my app. The other issue I was having was that to build a list in Flutter, this causes a Render overflow error and trying to sort this error out was a lot of trial and error. Learning points from implementing an IOS integration with Firebase were observed most definitely and the use of IOS target version 9 is deprecated and is no longer in use thus I must change to IOS target version 10 as I discovered through trial and error is one bug I will most doubtedly not forget.

9. Summary Of Progress, Next Steps, and Development Plan

In summary, I actually more or less redesigned the application to suit my previous depiction of how it would look like on my first Iteration. The previous iterations were about getting the functionality working first off to tick off the product backlog list. For this iteration I took the tasks a little more seriously and grafted on the actual application and ended up redoing most of it , design wise but also purpose wise. As is, the app was structured to enable me to match with users and then set up the sessions, but after some friend's and families' input and my own thought process I have thus decided it best to be able to match with prospective sessions/ activities taking place and if needs be, you would be able to follow the user setting out the activity and thus be able to message him/ her if for any reason the situation dictates. I am more comfortable with this position now, and going forward as I now have a definitive plan of action for upcoming iterations where I need to get the ability for users to make a session and also make a "bud" out of some other user. But more importantly, this enables me to use all the default session preferences users have inputted at the start of the application and mash them up into a sort of algorithm to decide the best most suitable recommended activity I envisage suits their preferences / needs. They also will have the ability to tailor this if needs must inside in their Matching functionality screen which I know will look to implement for the next iteration.

10. Conclusion

Overall, this has been a very good starting point and I'm pleased at how my application is looking and functioning at the moment. The most pleasing element of all is that I successfully managed to implement and complete all my 5 user stories that I set out to do. I will take on board a lot of feedback and adjust the design and functionality accordingly and with a fairly decent plan in place in regards to when I'm going to put different aspects/ user stories into effect in my application, I'm looking forward to working on the next steps for my application, Gymbud.