**Snapshot Week 8 of Group CYCIN11PG**

Project: **Team Pursuit Strategy Tool**

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**Project Backlog and Task Board**

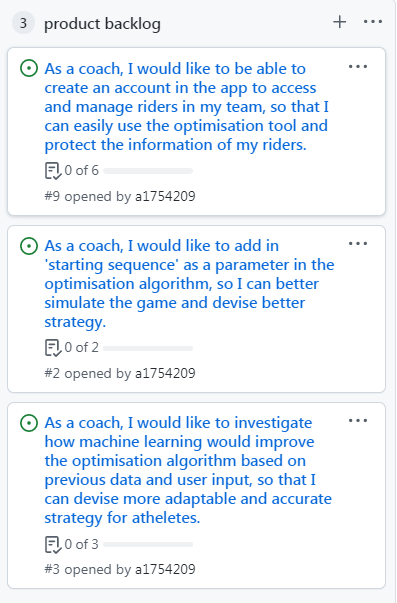


Figure 1. Project Backlog

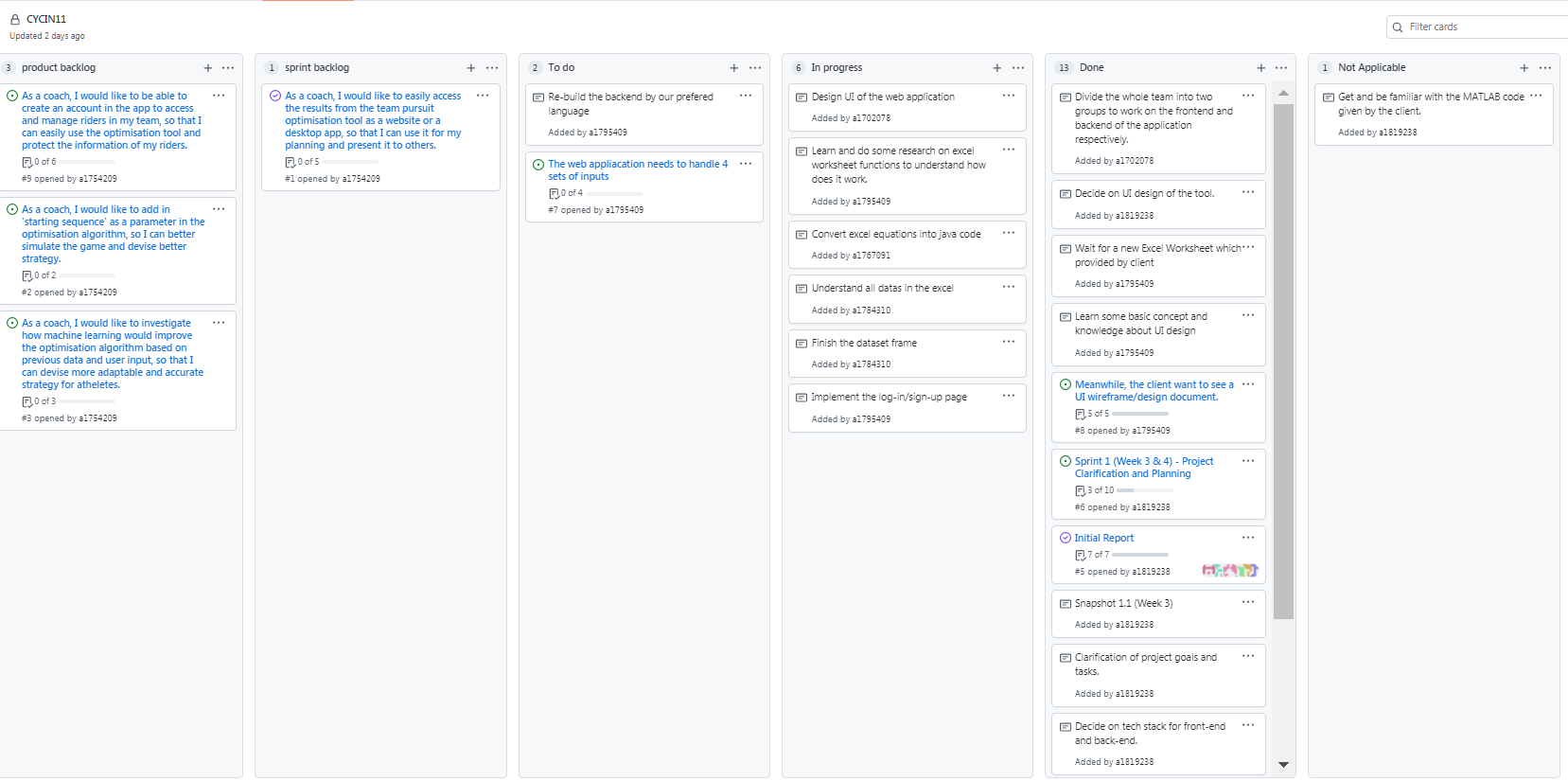


Figure 2. Task Board

**Sprint Backlog and User Stories**

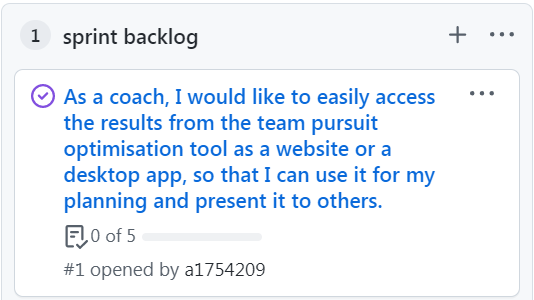


Figure 3. Sprint Backlog

**Current User Story**

As a coach, I would like to easily access the results from the team pursuit optimisation tool as a website or a desktop app, so that I can use it for my planning and present it to others.

*Acceptable Criteria*

* user should be able to access the same result from the MATLAB code on a website / desktop app
* user should be able to load / upload data which the algorithm will use to calculate
* the website / app should give user a list of requirement for data input (e.g. type, column name, etc.)
* instead of hard-coding, user should be able to input variables to be optimised through html form / other means
* user should only be able to run optimisation algorithm once all requied fields are filled with valid input
* once all valid input have been received, the website / app should show the same result as the MATLAB code

**Task Description**

* Build the backend of the application
* The backend of our web application needs to be programmed according to the information provided by the excel files. The program should contain all the functions included in the excel files, which produce the appropriate results with the given inputs. The use on the backend languages is not restricted, but we still need to consider the factors of data processing, visualization, and database to think of the most suitable programming language to be used in the backend.
* Construct the frontend of the application
* The team has created a general design of the UI of the web application, and the frontend needs to be created based on this design. Our team has already created the sign-in & log-in page of the UI, and we need to continue with the other parts of the UI and make sure the UI of the web application meets the requirements of client and is easy for users to use.

**Definition of Done**

The following states the definition of done for the user stories applicable to Sprint 1:

* The sprint and related user stories were planned, notified, and accepted by all team members.
* User stories that have met the acceptance criteria can be moved to the “Done” status.
* Any user story that hasn’t yet met the acceptance criteria in the current sprint is prolonged to the next or future sprint.
* All code has no syntax error and function as expected.
* All code should be commented and formatted in a readable fashion.
* All code should be reviewed by at least 1 team member.
* All code should pass all unit testing (at least 3 tests with edge cases).

**Summary of Changes**

In week 8, the team focused on the study of the excel files provided for the project, to try to understand the procedures of calculations in the excel files, and try to figure out a suitable way to conduct the backend programming based on the data in the excel file. At this stage, we plan to do the programming based on the functions used in the excel data, and try to write them in java codes.