UFCFTR-30-3 Distribute & Enterprise Software Development

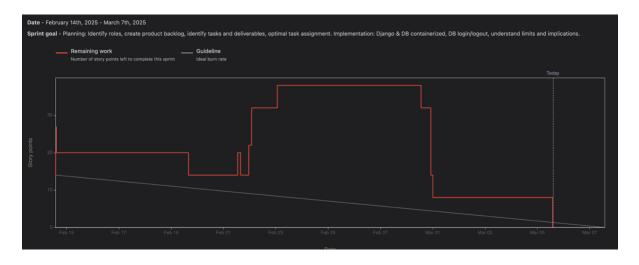
Sprint Review Form

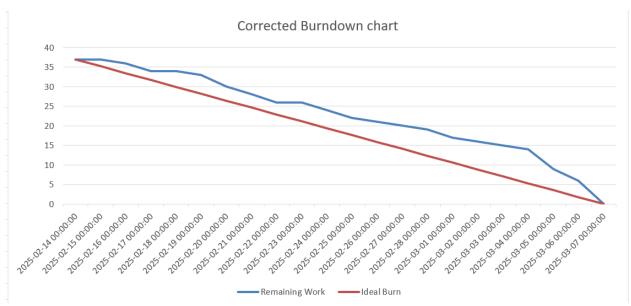
Group:	19
Sprint:	1
Members:	Rohaan Aslam (21017718)
	Arthur Milner (21035478)
	William Barnes (21031340)
	Seif Mansour (23012749)
	Chaya Moore (21030599)

Burn-down Chart

Below is the burn-down chart for sprint 1, unfortunately, we realised during the sprint that additional tasks were required, hence the fact it is going up and down. Going into sprint 2 we want to be sure our sprint backlog is comprehensive enough for the requirements to avoid this problem in the future.

The reason for the discrepancy in the burndown chart was because of a mid-sprint decision to change our authentication method to use JWTs instead of built-in django auth. This was after attending the lecture and seeing and promoted the use of JWT's hence we decided to implement it into our solution. However, this meant that rather than adding tasks to the backlog we instead just added them straight into sprint 1 prioritizing immediate implementation whilst this did allow us to set up authentication earlier it also massively increased the workload mid-sprint rather than deferring it into sprint 2.





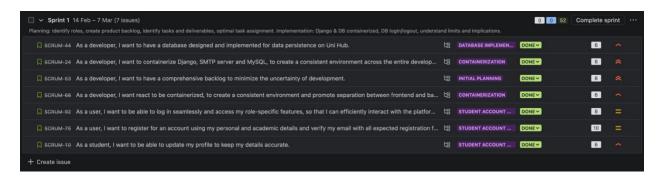
The corrected burndown chart above is what our burndown would have looked like if the extra work was pushed to the backlog instead of being added directly into the sprint this approach would have resulted in a more predictable and stable burndown.

Project Schedule and Backlog

Our backlog consists of epics, which contain user stories, which then contain multiple sub-tasks which are assigned to a single group member.

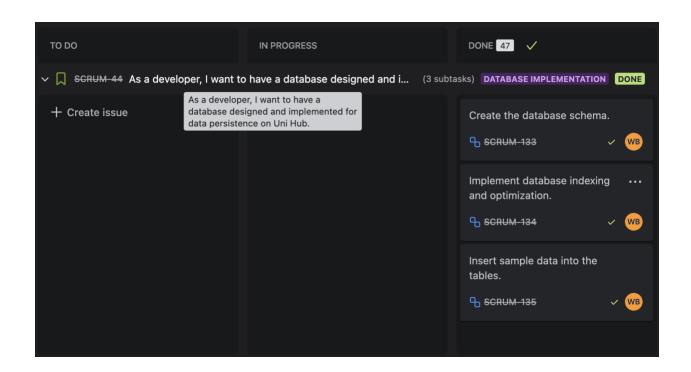
Sprint 1 Backlog:

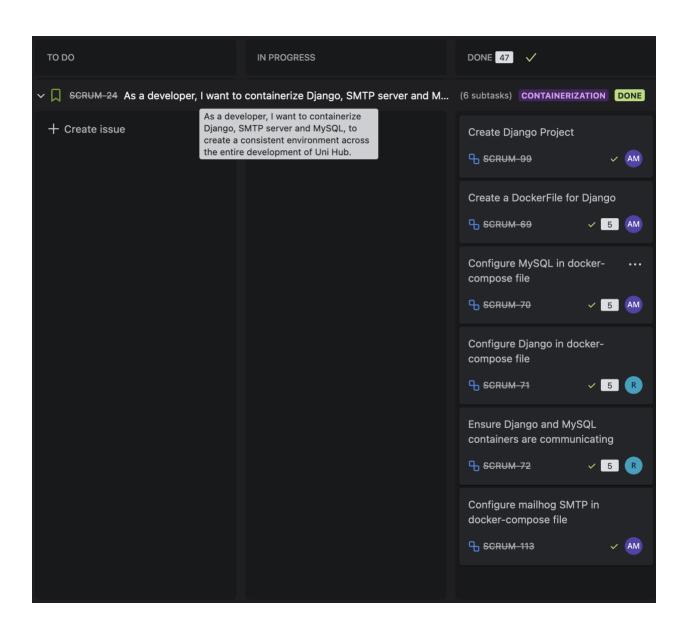
Below is the backlog for Sprint 1, an expanded view of the backlog, including the user stories with their sub-tasks, can be seen in the snapshots for the Sprint 1 kanban board.

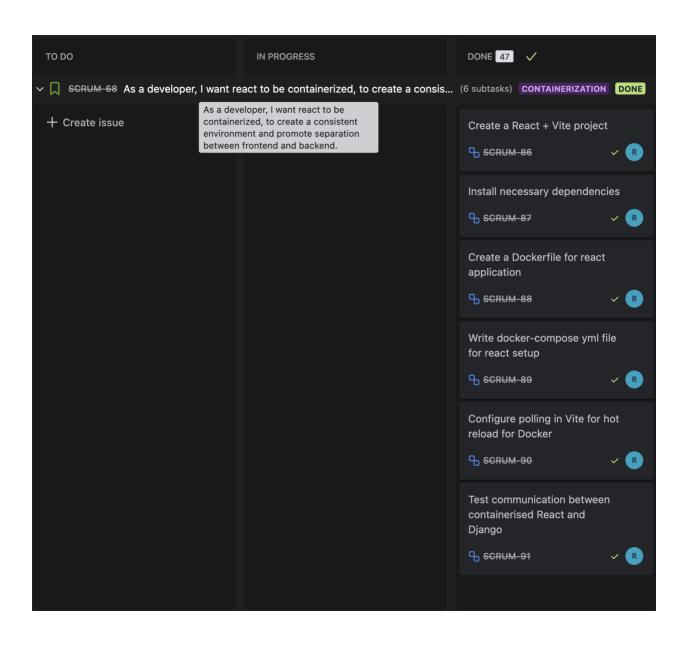


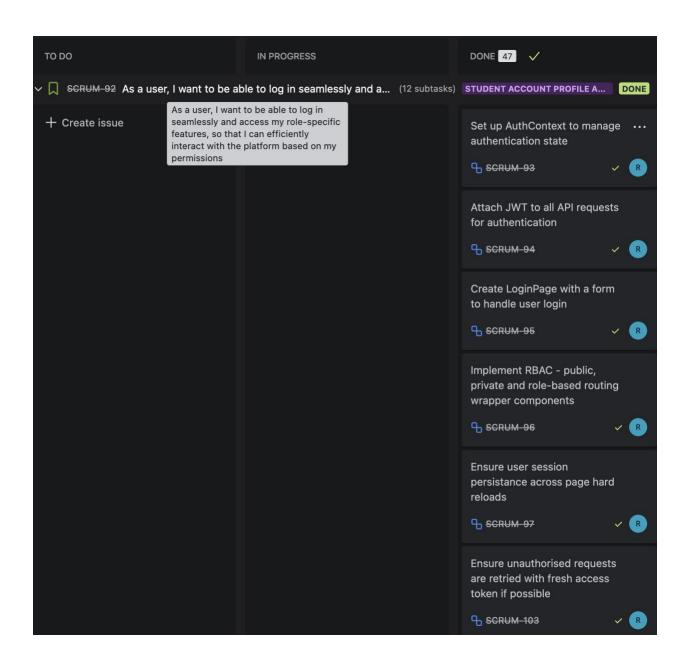
Sprint 1 Kanban Board:

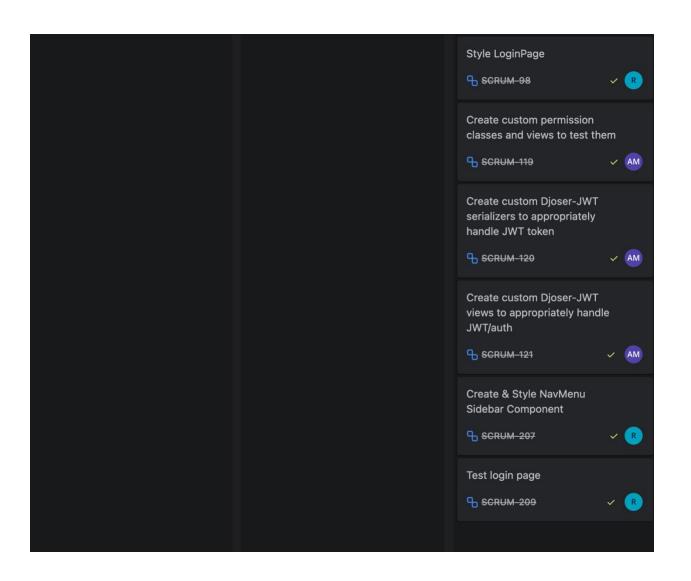
Below is the kanban board for sprint 1, the assignee for each subtask can be seen in the avatar, with the letters representing the group member's initials. The purple text represents the epic, the icon represents a user story, whilst the

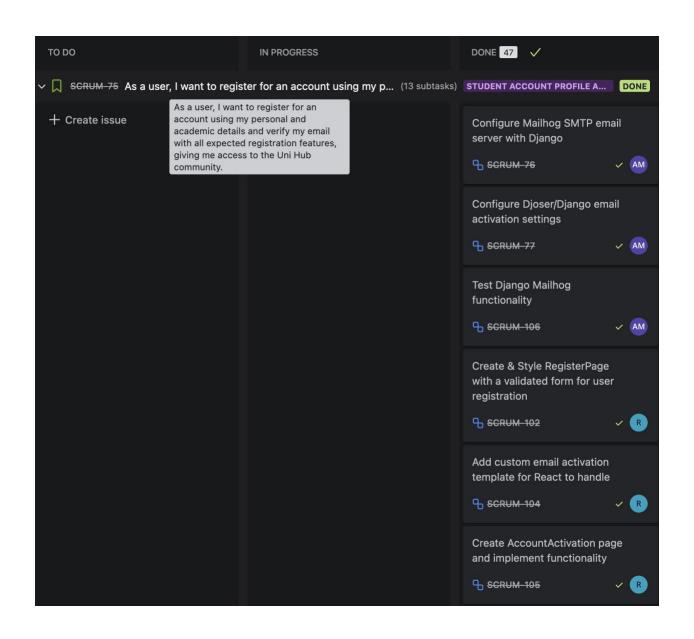


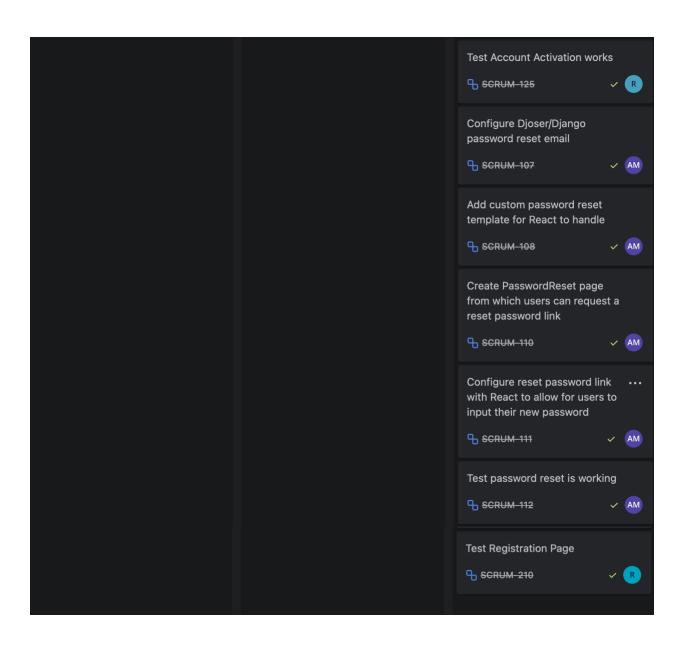


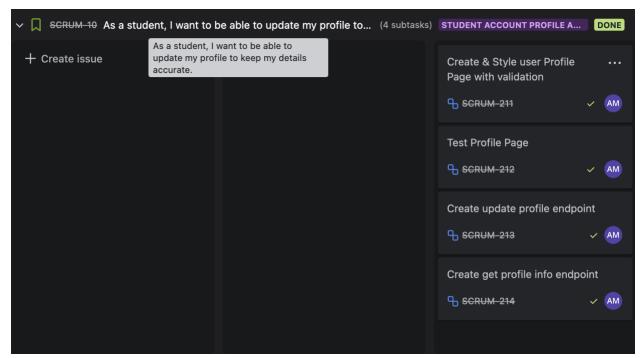






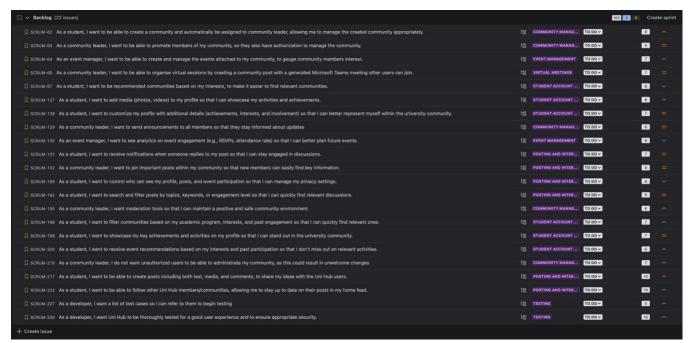






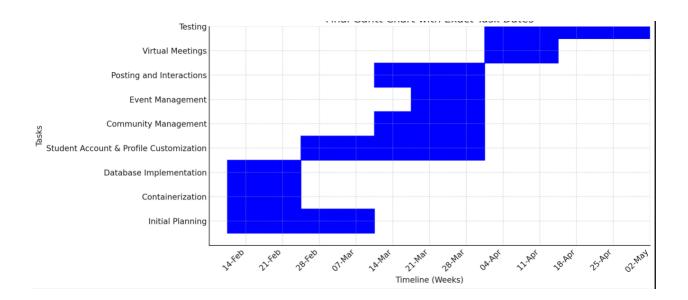
Product Backlog:

Here is the entire product backlog which will be split between Sprints 2 and 3. All stories in the backlog have 1-5 subtasks attached.



Entire Project Schedule:

Defining the project schedule involved adding start and end dates to all user stories and epics. Below is a simplified Gantt chart, followed by the schedule as it appears in Jira.





During sprint 2 we encountered a couple of communication challenges this mostly stemmed from difficulties in some members attending practical sessions. With some team members arriving late or did not attend at all, which had an impact on our collaboration. To mitigate this, we relied on Discord to help maintain communication throughout the sprint. While this helped to some extent, we as a group have recognised the need to improve this and to implement a better strategy in the next sprint to ensure we have more effective communication and participation within the group.

Reflections

As a group we effectively setup and utilised Jira for project management, using features such as, a generated kanban board from the current sprint, story points for task estimation, being able to assign tasks to members, and cloud collaboration. Member roles were split between focusing solely on the backlog, and focusing on developing the project alongside the backlog. This resulted in consistent development and a comprehensive backlog.

Pair programming was used for the bigger tasks, such as containerization and registration/user authentication, this helped tackle the new concepts in Django Rest Framework (DRF) and using JSON Web Tokens (JWTs).

We have containerised React, Django, MySQL, and MailHog for a complete login/sign-up authentication with email activation and email validated password reset. Account details can also be edited, and user profiles can be viewed. We have also setup the initial permissions for standard students/users, event managers, and community leaders as well as designed the Database.

The project's initial setup is fully complete, appropriate authorization is in place, and profile features are comprehensive. We have also created the entire project schedule and backlog to a good standard. The project is in a good place to begin SPRINT 2 tasks, such as functionalities regarding posts, communities, and events.

For sprint two we will look to spread out the work more evenly amongst all of the different group members to avoid over-reliance on just a few individuals in the group. During sprint 1 most of our front-end and back-end development was done by only two team members this was primarily down to poor communication as mentioned in the communication section and a group member experiencing technical difficulties with a laptop.

Steps taken to improve for the next sprint:

- 1. **Better Task Delegation** We will ensure that team members have roles that are more clearly defined and responsibilities at the start of the sprint by making better use of Jira to assign user tasks more clearly.
- 2. **Improved Communication** While we used discord for communication in sprint 1 we recognise the need for more structured updates, we will do this by scheduling regularly check ins throughout the week to discuss progress address any challenges and to

- provide support to team members that are struggling with assigned work before it before a problem at the near end of the sprint.
- 3. **Contingency planning** To ensure we prevent disruptions like the one we faced with hardware failure we will make better use of university computers and cloud-based development environments to ensure that technical difficulties do not hinder any progress.