CS21 Retrospective Evaluation

The purpose of this document is to periodically look back at the problems raised in our retrospectives and ensuring that we are putting the plans we made into practice. The evaluation section is to reflect on our actions and discuss whether we have learned lessons from previous sprints

Retrospective One:

The first retrospective was conducted verbally on Microsoft Teams which was in hindsight not the best way to document our findings. We hope to adjust this process by using an online sticky note app to mimic the way we would hold a retrospective in person. We didn't have too much to talk about since the project is only just beginning, and this sprint has only been used for planning and designing. Despite this, we identified the following issues:

Problem	Our communication has not been very good
	during the first few weeks. This is
	understandable given the current
	circumstances – it is not easy to gel as a team
	when we have not met each other in person.
Action	Every message on Teams must receive a
	response from the necessary people. This does
	not have to be a reply, but could just be a like,
	to highlight that the message has been received
	and is being taken on board.
Evaluation	Looking back at this problem, we have been
	improving our communication. At the weekly
	stand-ups we regularly discuss whether we are
	happy with our communication and whether
	the protocols we devised are being followed.

Problem	We have not been fully utilizing Gitlab by
	adding issues.
Action	Ensure to add an issue for every job we do in
	the project going forward.
Evaluation	When we look back at our new Gitlab issues, it
	is clear that we have been working hard to use
	them more. Additionally, we have made sure
	to assign people to issues and tag them with
	important information such as urgency or area
	of development.

Retrospective Two:

Problem	Be more specific with issues, rather than
	overarching tasks.
Action	Make more issues for complex tasks.
Evaluation	On reflection, we have been trying to improve our issue selection. Instead of simply translating our sprint goals into large issues, we have been making a more conscious effort to make more precise tasks. Perhaps this could be done more effectively, and there is room for improvement in the future.

Problem	Continue improving communication on teams.
Action	Make sure that we keep track of teams to keep
	following the communication rules we set out
	in the last retrospective.
Evaluation	We are happy that we are making the most of
	teams to communicate.

n we look back at our repo, we can see individual release that we made. We are y that we have made this choice as it has d to prevent large merge conflicts. The ning we want to be doing is wasting our
sorting out merge conflicts, so we are than happy to continue with this strategy.

Problem	Continue work split-up.
Action	N/A
Evaluation	Our issues show that we have been splitting the work up between ourselves. Each issue has been assigned someone to work on it. Perhaps some issues may be tackled more effectively in groups, helping us to learn off each other. This is tricky given the fact that we are all in different places across the globe, but we will hopefully try to implement some group work in the future.

Problem	Stop committing to master when there is a
	specific release branch.
Action	Put new artefacts and updates into the current
	release branch instead of master.
Evaluation	The repo is evidence that we have been
	following this rule. As a result, our lives have
	been made much simpler when it comes
	towards the release day and we want to merge
	our work.

Problem	Stop committing too many times and committing files which should be in .gitignore.
Action	N/A
Evaluation	There have been quite a few commits, specifically by David which are not necessary. It is hard to strike a balance between making commits which are small enough to aid with merging, but also big enough so that we are not committing too many times. This is something that can be improved upon as the sprints continue. We have updated the gitignore to solve the second issue.

In general, the second retrospective was helpful but could have been slightly more effective. For example, three of the issues were regarding areas we want to continue working on. It might have been a better use of our time to delve deeper and identify areas of weakness within the process rather than areas of success. As a result, we will try to be more critical of ourselves in the next retrospective.

Retrospective Three:

Problem	Start giving weekly update to Hayden.
Action	We discussed this issue as we felt that it was a
	long time between customer days, and we did
	not want to leave Hayden in the dark for too
	long. We did, however, come to the agreement
	that every week was potentially too frequent.
	Instead, we would make a better effort to
	communicate with Hayden via email, in
	between customer days, but with no set time.
Evaluation	We have done well with this issue because Ans,
	our product owner, has been overseeing the
	process. Ans sends emails in between
	customer days, making sure that Hayden is able
	to attend customer days, if any of his
	colleagues will be attending, and whether we
	require a more casual meeting with him in
	between.

Problem	Make more common merges into release
	branches.
Action	N/A
Evaluation	We have been making an effort to do this since large features will cause large head aches with merge conflicts. With this comes the possibility of committing and merging too regularly so it is important to strike the balance.

Problem	Start writing more descriptive commit
	messages.
Action	We agreed to follow the format discussed by
	Tim in the lectures.
Evaluation	This has been followed well by everyone as can
	be seen in our repo. Perhaps it would be
	beneficial to make a template commit message
	and store it in our wiki for reference. In
	practice, we have realized that every commit is
	a snowflake and the template will not always
	fit. We have, however, stepped up our game in
	terms of being more descriptive, maybe just
	not always following a set format.

Problem	Continue presentation format.
Action	N/A
Evaluation	This format has worked well at each customer
	day, with praise from both the customer and
	the marker.

Retrospective Four:

Problem	Start experimenting with different
	programming techniques like pair and mob
	programming.
Action	We agreed that we would start off trying pair
	programming with Ans and Lewis collaborating
	on the feature of operator API post requests.
Evaluation	This has been a worthwhile experience. Both
	Lewis and Ans have been able to learn off of
	each other. It was a good idea pairing Ans, who
	has done work on the API, with Lewis who has
	focused more on the project management and
	version control. As a result, they were able to
	learn off each other and solve problems quicker
	than usual.

Problem	Start thinking about risks associated with all our
	project features.
Action	N/A
Evaluation	This has been something we have been trying
	to discuss at each meeting we have. At the end
	of each meeting, we leave the floor open to any
	issues we think might arise or any problems we
	have. Additionally, we met with CS20 to
	discuss and mitigate the risks associated with
	potentially combining our solutions for Hayden.

Problem	Start being less rigid post customer days, not getting bogged down in our issues.
Action	Try and hit the ground running so not to waste time.
Evaluation	Reflecting on the beginning of the sprint, I think we got lots of work done. We had to since we gave ourselves a lot of work to pull off. As the February customer day is approaching, we do not have as much urgent work to take care of as we have done on previous customer days.

Problem	Start putting more emphasis on testing
Action	We assigned Pragati to be our "test manager"
	ad oversee all testing on the project. Each of us
	will individually have tests to write, but Pragati
	is in charge of coordinating and running these
	tests.
Evaluation	It has been good to have a team member
	overseeing the issue. As a result, we have been
	creating lots of tests and hope to run them
	automatically soon. Unfortunately, we are still
	struggling setting up the CI/CD pipeline.

Problem	Continue branching method – i.e small manageable features.
Action	N/A
Evaluation	Looking at our repo, there have been more branches made and merged throughout the sprint. I, David, have been making sure to make smaller branches and merge them into release-four regularly to avoid merge conflicts later on.

Problem	Continue meaningful commit messages.
Action	N/A
Evaluation	As with the last sprint, this has been going well.

Problem	Try to make less changes in the code in order to reduce merge conflicts.
Action	N/A
Evaluation	This has been something which is tricky to do in practice as we are always trying to improve upon our code, especially after the code review we conducted at the end of the last sprint. However, we have been trying to make these changes in small branches, as detailed above.

Problem	Continue improving communications on teams.
Action	N/A
Evaluation	Despite the fact we have already discussed this,
	we felt it was important to maintain the
	standard we had set. Communications had
	slipped very slightly in the last sprint, which is
	understandable due to the holidays, but we
	hope to improve upon this in the future. It is
	important not to forget about the issue we
	raised early on in the project.

Problem	Continue logging work completed in order to
	help write dissertation.
Action	Keep a progress log of everything we have done
	each month and any issues which came up.
Evaluation	This log has been kept on teams so that
	everyone can have an input. It has been a good
	idea as it will help us to reflect more effectively
	in our dissertation.