

## SPRINT 5

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Reykjavik University

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### 1 Necessity for Sprint 5

It is necessary to pass four out of five sprints to pass the project part of this course. Therefore, many students will not be required to complete sprint 5. This is OK - if you have passed all other sprints you do not need to do sprint 5. However, please consider the following points:

First, in case one or several group members have not passed one sprint and still need sprint 5, they need to continue. The remainder of the group does not have to continue. In this case, the remaining group members have to make the plan so that they do not depend on the others. This requires communication in the group - it's nice if you inform each other if you do not intend to continue the work.

Secondly, we (as teachers) are normally expected to grade your assignments within one week's time. This means that you will have up to a week of uncertainty as to whether or not you passed sprint 4. There is no requirement to grade quicker, and this is not anyhow unfair to you. That means that you either have to continue working that one week until you know for sure that you don't need sprint 5, or you take a chance on passing. Note that the second approach is entirely your responsibility (and risk).

Finally, we continue the mandatory attendance as follows. If you need to pass sprint 5, we continue to check for attendance. If you do not need to pass sprint 5, we do not check - it does not make sense to force you to be there if you don't need to pass the sprint.

### 2 Sprint 5

1. **US1:** As a Product Owner, I want to know who is the group's ScrumMaster, so that I have a clear point of contact.
2. **US2:** As a Product Owner, I want to be able to get a high-level overview of a group's sprint plan, so that I can adjust in case my priorities are different, or the planning seems unrealistic.
3. **US3:** As a group, we want to have a clear task list, so that we can see progress and identify who is responsible for what.
4. **US4:** As a Product Owner, I want to get a video demonstration of the system used through the frontend, so that I get an impression of the final product.
5. **US5:** As a Product Owner, I want to be able to get a quick overview of the standup meetings and important decisions, so that I can estimate the progress of the group.

In Sprint 5, you will implement part of a frontend to the backend you were provided with before Sprint 4. We return to the format of sprints 2 and 3, meaning you have to define which user stories

(US2) you will implement (this time on the frontend side). You also need to break down tasks (US3) - this is especially important since not all group members might be working actively. Therefore, it is not unrealistic that the group does not cover the entire sprint backlog, but the individuals who need to pass the sprint reach their tasks/user stories. So pay close attention to this part! For the same reason, we skip the definition of done for this sprint.

Based on your work in Sprint 4, you should have a good enough understanding of the backend and PySimpleGUI to get implementing right away. As a reminder, the focus in Sprint 5 is on the implemented functionality, not the UX/look and feel - so do not spend unnecessary time on the design part. You need to demonstrate your final product in a video demo of less than 5 minutes. This should cover the breadth of functionality - try to cover as many user stories as possible, instead of explaining one or two in depth.

Keep your decision protocol (US5).

### 3 Technical Constraints

The following constraints apply to Sprint 5:

- You have to use **python 3.\***.
- You have to use the **PySimpleGUI** framework for writing the graphical frontend.
- Since we have not covered it in practical terms, we will not conduct automated testing in Sprint 5.
- Backend code may only be accessed through WebSocket calls. No direct calls are allowed and the backend should in theory be deployable independently from the frontend.
- No individual group may modify the backend code they have been provided with. If changes are absolutely necessary, this will be decided through Piazza discussions and lead/monitored by the instructors/TAs.
- Keep using your existing repository. Do not include the code of the backend you have been assigned.

You will have to follow all of these constraints.

### Submission and Assessment

**Sprint 5 deadline: Wednesday, 30th October, 23:59**

Make sure all relevant files are committed on time. Any late commits will be ignored.

For Sprint 5, make sure the following parts exist:

1. Decision protocol in the docs/sprint5 subfolder
2. Code in src/app subfolder
3. Maintained/updated product and sprint backlogs on GitLab
4. A less-than 5 minute demo video in the docs/sprint5 subfolder

The individual part is submitted through Canvas (assignments are named by sprint) - as in Sprint 1.