

Sprint Plans

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Sprint 2 Plan

The sprint planning meeting for sprint 2 took place on 22/3/2023 from 2pm to 2.30pm. It is noted under team meetings as team meeting #4, though the documentation for the meeting is sparse as the output of that meeting is recorded immediately below.

The first software deliverable is due at the end of this sprint. Thus, the focus of this sprint is on completion of that deliverable. The first software deliverable consists of two parts:

1. Updating CoWriter and dependencies from Python 2.7 to Python 3.x, and to use ROS Noetic.
2. Building a web app which can capture pen data on Wacom and iOS tablets.

The plan is to complete component 1 prior to commencement of work on component 2. In particular, the plan is to complete the following steps in order:

1. Update syntax of all .py files in CoWriter and relevant dependencies to use Python 3.x instead of Python 2.7.
2. Update the ROS-related files in CoWriter and relevant dependencies so they can run using ROS Noetic.
3. Test the updated CoWriter package and relevant dependencies using aldebaran robot simulation software.
4. Make any required changes to fix bugs revealed through testing process in step 3.
5. Develop the web app to capture pen data on Wacom and iOS devices.
6. Test the web app.
7. Make any changes required to fix bugs revealed through testing process in step 6.
8. Make sure code is thoroughly documented before delivery of the software.

The Python version we are going to use is 3.8.10, and the version of ROS we will use is ROS Noetic. We will develop on the operating system Ubuntu 20.04.5, as ROS Noetic is designed to run on Ubuntu 20.04. For a more complete picture of the software tooling, as well as coding and git practices, please consult 'Software Practices and Tooling' under the 'Quality' page.

In addition to the above, sprint 3 planning is to take place in the latter half of sprint 2.

We plan to have a stand-up meeting twice per week to see how everyone is tracking with their tasks, the meetings will be held on Mondays and Wednesdays. Task allocation during the sprint will be done through Trello.

Sprint 3 Plan

The sprint 3 planning meeting took place on 27 Apr 2023 between 2pm and 4pm.

Overview of Plan

We are hoping that the port we have worked on throughout sprint 2 will be complete before the commencement of sprint 3, but any outstanding items from that sprint will be rolled into sprint 3.

We agreed the focus of the sprint would be on the following three epics:

- Epic 3: Integrate ChatGPT as a dialogue manager
- Epic 4: Prompt and design characters for the robot
- Epic 5: Parse audio into text

The User Stories

These epics include all user stories between US10 and US20. The stories were prioritised and allocated story points as follows:

- US10: Must have, 16 points
- US11: Should have, 2 points
- US12: Should have, 8 points
- US13: Should have, 3 points
- US14: Could have, 3 points
- US15: Could have, 2 points
- US16: Could have, 3 points
- US17: Must have, 5 points
- US18: Must have, 6 points

- US19: Must have: 5 points
- US20: Could have, 10 points

We identified that US11 through to US16 are all dependent on US10. Work can proceed on US10 and US17-20 at once. The dependencies and priority mean the following four user stories will be the initial focus of the sprint: US10, US17, US18, US19.

User stories were decomposed into sub-tasks, which can be viewed on the ['Product and Sprint Backlogs' page](#).

The Sprint Goal

The goal of this sprint is to have a working port with ChatGPT fully integrated. Delivery of should have's is reasonably high priority, if outstanding work from sprint 2 is carried into sprint 3, it is unlikely that work will be done on any of the 'could have' stories.

Changes to Workflow

The following changes are being brought into sprint 3:

- Adoption of test driven development
- Adoption of formal policy concerning Trello card management
- More well-defined policy with respect to version control practices
- More granular use of story points
- More emphasis on breaking Trello cards down into small tasks which can be completed quickly
- Weekly monitoring of velocity: last week vs sprint average

Sprint 4 Plan

Detailed sprint 4 planning will take place towards the end of sprint 3. However, the rough plan for sprint 4 is to deliver Epic 6 (US21 and US22) and to deliver any outstanding must have features from previous sprints. No work will commence on any stories with a priority lower than 'must have', and any in-progress work on lower priority work will be evaluated to determine if continued work risks compromising the delivery of all must have features. As this is the handover sprint, the new stories (US21 and US22) revolve around clear usage instructions and extensive documentation of the code.