Log Book

By Tony Lu, Kyu-Sang Kim, Arpit Sharma and Aravind Venkateswaran

Wednesday 29th August 12pm – 12:30pm

Our group organised the first meeting before Wednesday's lab in week 6. Our aim in this meeting was to start planning, allocating tasks and completing the first assignment milestone on user stories due on Sunday week 6. We decided to design our first epic story, user story and acceptance criteria together during the meeting so we would have a guideline to follow when completing allocated ones. We read through the assignment specification and decided to write an epic story for every subsection under preliminary requirements for a total of 9 epic stories. We worked on one epic story together during the meeting: login and authentication; and allocated 2 epic stories for each member in the team. For the initial epic story, we used the information in the following paragraph to deduce the overall aim:

The HAMS must only be accessible by the pre-registered users, whose login credentials will be provided in csv files. Hence, no registration is required yet. Users should be able to log into the system with their email and password. Once a user has logged into the system, they should be granted access to the rest of the features in system already described above.

When considering writing our epic story, we focused on clarity and conciseness, being able to summarise all the details in this paragraph into a short and clear epic story. We devised the following: **As a user, I want to be able to login to the health care system.** This epic story clearly identifies the persona (user) and the desired function (login to the health care system). We deduced that the details in the paragraph could be broken into two smaller user stories for the two types of users: using email and password to login as a health provider, and using email and password to login as a patient. We prioritised following the Role-Goal-Benefit template of identifying the persona (patient or health provider), desired function (login into the health-care system) and goal (access features of system that user requires). This resulted in the following user stories: **As a patient, I want to be able to use my unique email and password credentials to login into the health-care system, so that I can be granted access to the features in the system that I require.**

As a health provider, I want to be able to use my email and password to login into the health care system, so that I can be granted access to the health provider features in the system.

Both user stories have priority 1 as otherwise no user can access the health care system. We believed that the login system would take one and a half days to criteria which comes under the login user stories. When considering acceptance criteria, we compared with examples of current authentication systems, focusing on the three cases of username and password matching information in the system, username not matching, and password not matching. The same acceptance criteria comes under both user stories as they are very similar, the only difference being the user which accesses the system. We came up with the following to fit both:

If the username and password matches the information in the system (CSV files), the health provider is authenticated without error and is able to access the system that is provided for the health provider as defined by implement so we estimated 3 story points for both user stories (each story point being half a day). During the meeting, we also decided on the acceptance the system administrator.

- If the input supplied username do not match in the system, an error message, "Username does not exist" is displayed.
- If the input supplied password does not match the corresponding username, an error message, "invalid password" should be displayed.

Using this method of devising epic stories, user stories and acceptance criteria, we allocated responsibilities to each team member as follows:

Arpit:

- *Viewing Health Centre Profile - Patient*
- *Viewing Health Provider Profile - Patient*

Aravind:

- *Booking an Appointment – Patient*
- *Searching for a Healthcare Service to Book an Appointment - Patient*

Kyu-Sang:

- *Provide Rating - Patient*
- *Viewing Appointments History - Patient*

Tony:

- *Viewing Appointments History – Health Providers*
- *Viewing Patient History – Health Providers*

During the meeting we agreed to use both Facebook Messenger and Discord as reliable means of communication: Facebook Messenger to ask each other questions and keep updated at any time, and Discord for voice call meetings. We decided to upload all our finished user stories onto a Google Doc and edit/proofread each others when finished. We organised a Discord meeting on Sunday before the deadline for the first assignment deadline.

Sunday 2nd September 3pm – 3:30pm:

Our group used Discord voice chat to give feedback, edit and proofread each others' allocated epic stories, user stories and acceptance criteria. Every member completed their assigned work before the meeting, hence the milestones set by our team in the previous meeting were all achieved. We decided to allocate each team member to check a different member's stories and acceptance criteria: namely Arpit checking Kyu-Sang's, Kyu-Sang for Tony's, Tony's for Aravind's, and Aravind's for Arpit's. After this was completed, we rotated until every member of the group had checked and possibly improved each others' work. As we had given each other feedback during the week on Messenger, only a few minor edits were made to acceptance criteria, namely adding more specific details for more possible scenarios, eg. for US23, To record medication prescribed to patient, we added the acceptance criteria to auto-save data on a reasonable timetable to prevent loss of data due to **power outages or any similar afflictive event**. This preventative measure safeguards data against more extreme events which would usually wipe it from the system.

After making last-minute changes to each other's' work, we formatted and proofread the Google Doc before Kyu-Sang converted to pdf and sent it along with the names and zIDs of the team members for the assignment deadline.

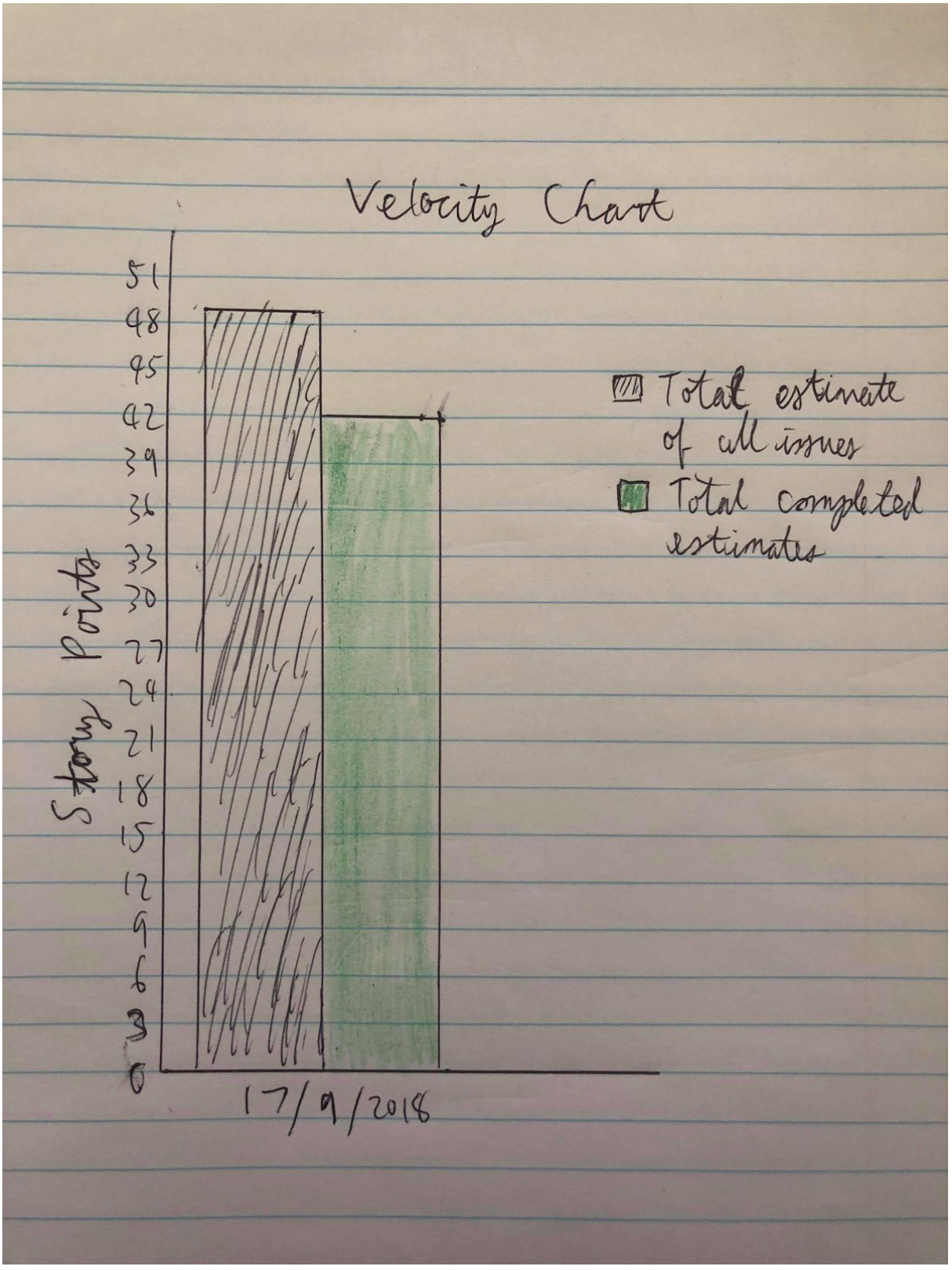
12th September 12pm - 12:30pm

We collectively as a group discussed the practical component of the assignment and assigned roles based upon our current strengths. This resulted in the assigned members researching over the course of the week on the required technical aspects of the web-app development process.

16th September 9pm - 17th September 9am

We began our implementation of the Web application and continued developing and collaborating by consistently pushing and pulling files to and from our Github repository. Out of 49 total story points as shown from the first assignment milestone, we completed 42 of them. We believed we could finish

all of them but due to time constraints, this unfortunately could not be achieved. Hence not all of the set milestones were reached.



21th September 5pm to 6pm

Further assignment of roles were given to each person as the requirements for the next deliverable were discussed during our weekly team meetings. Arpit and Kyu-Sang were predominantly in charge of the back-end implementation in Flask, responsible for the routing and O-O Design principles. Tony and Aravind had the responsibility of developing the pytests, using a series of equivalence tests to ensure the stability of the program as well as developing the HTML web pages.

8th October 12pm to 2pm

After discussing our progress after a long time due to previous preoccupations with additional assignments, we joined each other via voice chat on discord to address any issues concerning our roles and collectively as a group alleviated any problems.

13th - 14th October

After finalising on our final roles, we came together and performed a series of code reviews on each of our works, initially starting with the code reviewing of our user-stories and their implementation in our Flask web application.
The second review of our code resulted in the checking of our O-O design in correspondence with the UML Diagram. Finally, we reviewed our equivalence tests (which ran via pytests) and ensured that all the possible inputs were accounted for.

15th October

Submission of Final deliverable, Kyu-Sang reviewed backend, Arpit reviewed the back-end and finished this log-book prior to submission, Tony and Aravind reviewed the testing and HTML web pages.

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And we submitted!