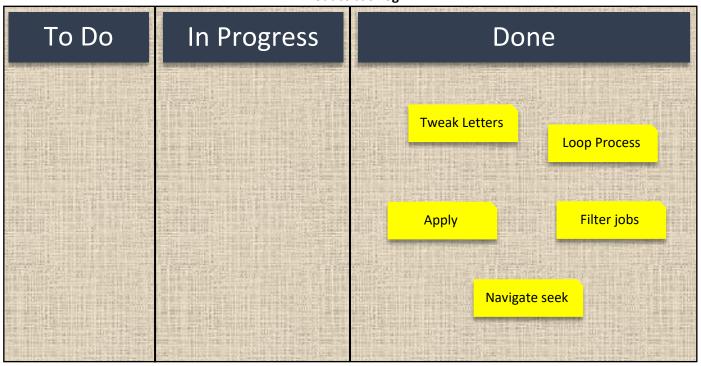# Sprint planning:

- This document is an attempt to simulate scrum. I will act as the scrum master, the product owner and the development team, and throughout the sprint I will do my best to take on the responsibilities of each of these roles as outlined in *The Scrum Guide* by Ken Schwaber and Jeff Sutherland.
- Since this is a small project (compared to enterprise software products) this first sprint will encompass most or all of the project.
- **The aim is to have a working prototype within two weeks - by 09/02/19**
- When executed, the prototype will need to do the following:
  o Navigate the Seek results for one of my saved searches
  o Ignore jobs for which I have already applied.
  o Ignore jobs requiring significantly more experience than I currently have.
  o Ignore jobs requiring .Net experience (I may learn .Net in the future but I am not currently familiar with it).
  o Ignore jobs requiring an external website to complete the application (for simplicity). Perhaps a future implementation could save the links to these jobs to a specific folder for manual application later.
  o Apply for the remaining jobs using the CV saved on my Seek profile and by uploading a tweaked cover letter.
  o Cover letter will be based on a prewritten template and customised slightly based on job title and company name. Future implementation could customise more fully based on key words and requested skills.
  o Each cover letter will be saved to a specified folder and the file will be named after the company advertising the position.
- I believe this can be completed within two weeks because I have been reading an article on python web optimisation using selenium which explains how to perform most of the navigation operations I will need.
- Cover letter customisation will be kept simple (Only changing company name and job title at very specific points within the text, at least for this first prototype) so while I have not yet researched how to do this, I believe it will be relatively straightforward to implement.

Product backlog:

To Do	In Progress	Done
		Tweak Letters
		Loop Process
		Apply Filter jobs
		Navigate seek

Daily scrum log:

- Notes: my current schedule does not have set weekends, so each week I will allow myself up to two "weekend days" of my choice. Additionally, I must remind myself as scrum master and developer to set aside 15 minutes on each weekday to answer the following questions:

- What did I do yesterday that helped the Development Team meet the Sprint Goal?
- What will I do today to help the Development Team meet the Sprint Goal?
- Do I see any impediment that prevents me or the Development Team from meeting the Sprint Goal?

24/02/19:
- <u>Yesterday</u>: Created this document and added "navigate seek", "filter jobs", "tweak letters", "save letters" and "apply" to product backlog. Moved "navigate seek" to *In Progress*. Installed and began work with the selenium library. Installed a driver for chrome to use with selenium.
- <u>Today</u>: Figure out how to open a job listing using the web driver and how to ignore certain listings. Print the listing title each time to visualise the process.
- <u>Impediments</u>: None.

25/02/19:
- <u>Yesterday</u>: Logging in, navigating to individual job listings and going back to a specified search now works. Moved "filter jobs" to *In Progress* on the backlog. Implemented filtering for jobs based on experience-level, application status and .Net requirements.
- <u>Today</u>: Finish filtering by adding a check for being redirected to an external website. Continue navigation by selecting CV and cover letter to submit.
- <u>Impediments</u>: None.

26/02/19:
- <u>Yesterday</u>: Navigation was having issues with trying to access web content before the page had fully loaded. Several options were tried to make the program wait until required content was present and this took priority over finishing the filtering functionality. Once this was solved, continued with navigation and implemented the typed cover letter submission, along with automatic tweaks to the letter template based on company name and position title. Moved "tweak letters" to *Done* on the backlog
- <u>Today</u>: …
- <u>Impediments</u>: …

27/02/19:
- <u>Yesterday</u>: Since typing in a cover letter directly turned out to be more convenient than uploading letters, "save letters" was removed from the product backlog. Looping the application process was added to *In Progress* on the backlog and was moved to *Done* once completed. Also completed the process of sending in an application and moved "apply" to *Done*. Continued work on filtering.

- <u>Today</u>: Found it difficult to figure out why filtering was working in tests but not in practice. I believe now that the issue was due to changing pages before jobs could display their "applied" label, and I will continue testing to confirm. Additionally, I aim to implement the final piece of filtering based on redirections to external websites and to save these jobs to my seek profile for manual application.
- <u>Impediments</u>: None

28/02/19:
- <u>Yesterday</u>: shortened cover letter template to better fit with character count restrictions on seek
- <u>Today</u>: Completed the project. All functional requirements fulfilled. Made some final changes by also filtering out the word 'lead' in a job title, adding functionality to ask for user input if seek asks a new question and generally cleaned up the code.
- <u>Impediments</u>: None

Resources:

- *Controlling the web with python*. https://towardsdatascience.com/controlling-the-web-with-python-6fceb22c5f08
- *Selenium documentation.* https://selenium-python.readthedocs.io/getting-started.html