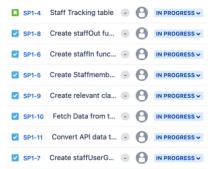
## Reflection Report Semester 1 Project

The semester 1 project has been a challenging yet interesting coding endeavour. During this project I think I have developed my skills in JavaScript, jQuery, bootstrap, HTML, CSS and object-oriented programming. When approaching a project of this size I found that using Jira to help organize tasks helped significantly as it ensured I stayed on track throughout the entire duration of the project, in addition it helped keep track of which tasks I needed to complete and which tasks I had already completed.

Using Jira I created various Epics, Stories, and Tasks, to break the required work up into more manageable pieces. As epics are what the user will be able to do on the application. I decided to split it into the following epics:

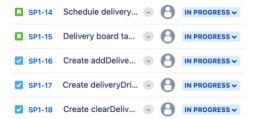


The staff tracking epic would cover the functionality required for the receptionist to track the staff members leaving in and out of the office. The issues and stories I assigned to the staff tracking epic are shown below:



I chose to create these issues and stories as I found that they covered all design aspects and functionality required for the staff tracking section of the application. For example, a staff tracking table needed to be present for the staff tracking to function, and a staffOut function was required to clock staff out of the office.

The delivery tracking epic would cover the functionality required for the receptionist to track the deliveries coming into the office. The issues and stories I assigned to the delivery tracking table are shown below:



Again, I created these issues and stories as they covered the design aspects and functionality required for the delivery tracking aspect of the application.

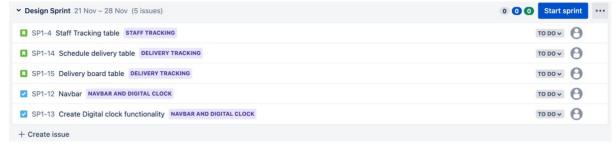
Finally, I decided to create a navbar and digital clock epic as this would cover the final design aspects and functionality required for the application as WeDeliverTech wanted a digital clock as well as a navbar. This was quite a short epic and only included the following issues:



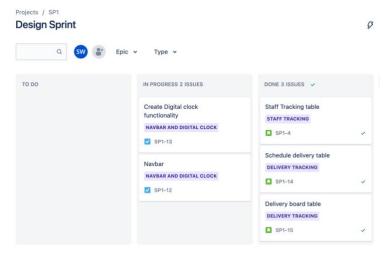
I decided to divide these issues into 3 sprints: Design sprint, Staff sprint, and Delivery sprint.



The Design sprint would include all web page design. I chose to complete this sprint first as I found that the web page would need to be completed in order to implement the actual functionality of the web page. I decided to assign the following issues and stories to the design sprint:

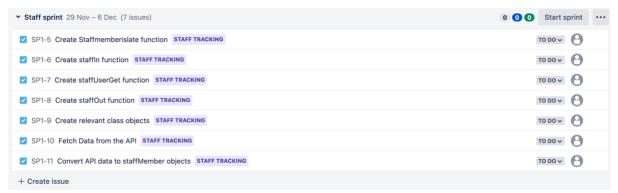


and below is the board for the design sprint halfway through the sprint:

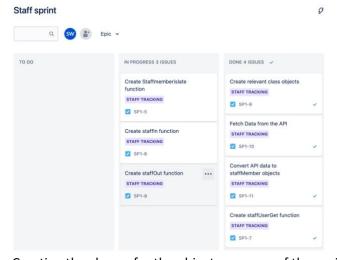


I found that the design sprint was one the of the easier sprints to complete as I find HTML and CSS much easier than JavaScript and jQuery. However, I did struggle a bit with the navbar at first as I was trying to create it using only HTML and CSS. In the end I used bootstrap as it simplified the process significantly.

The staff sprint included all functionality required to clock staff in and out of the office, as well as the functionality required to fetch the staff data from the API and create staff member objects. Hence, I assigned the following issues to the staff sprint:

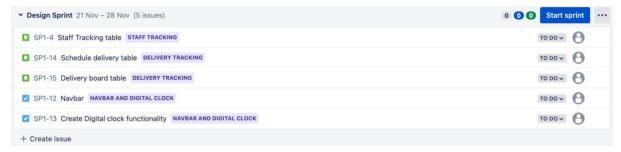


## and here is the board halfway through the sprint:

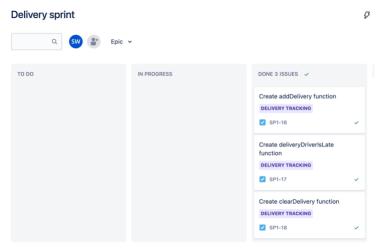


Creating the classes for the objects was one of the easier tasks as I am quite confident in objectoriented programming. In addition, fetching the data from the API and create staffMember objects
wasn't too challenging as a lot of functionality on how to use the API was given by the website.
However, I struggled with the staffMemberIsLate function as I was getting a lot of error messages
which were difficult to address. I was able to solve these issues by going over some of the course
content again and asking the teachers for help. I also had an issue where the toast would keep
reappearing however, I was able to solve this by clearing the interval I had created. Finally, the
staffIn and staffOut functions were relatively easy to create as they just involved changing the object
properties and modifying HTML content using jQuery.

The final sprint I created was the delivery sprint which would cover all functionality required for the receptionist to enter scheduled deliveries into the table as well as the functionality required to clear the deliveries from the table. Based on this I assigned the following issues to this sprint:

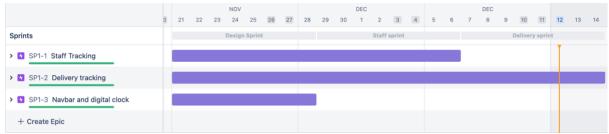


Below is the delivery board halfway through the sprint:



I found that this sprint was much easier than the staff sprint as I could repeat a lot of the code. Therefore, I didn't really struggle with any the code too much.

Below is the roadmap for the semester project:



The roadmap ensured I stayed on track; however, I think I could have done a better job setting the deadlines for the sprints. For example, the staff sprint took almost the entire week whereas the delivery sprint was completed in just a few days.

Overall, I am proud of my progress and results in this project considering it is the first time I have completed an application of this size; however I still have room for improvement.