

CS1410

Java Programming Development

**-T**

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2017

**Introduction:**

The aim of this report is to highlight who in the group contributed to what aspect of the task and what I learnt from working in a group on a project. I will first go over who was allocated to a certain task within the project, briefly explaining why each person was given that task. Secondly, I will outline what I have learnt throughout the project with the tasks that I was allocated.

**Project:**

The groups consisted of 6 people including myself who some I were familiar with, therefore this meant that I needed to understand the strengths and weaknesses of the individuals I didn’t know very well to make task allocation easier. Within the first meeting, which every colleague attended, we were able to discuss and allocate tasks efficiently and I was tasked the role of constructing test classes for the program in collaboration with my colleague Hannah Miller.

It was decided between Hannah and I that test classes would need to be done once a solid idea of the general code has been established and that we would attempt to create test classes for the rest of the team to create methods off. However, on my part, I felt I was not confident and experienced enough to create effective test classes for the rest of the team to work off, therefore agreed to work closely with the programmers, Rebecca Holmes and Matthew Barlow, to assist if needed and consider sensible test classes for methods that required them. Furthermore, the creation of test classes would be much easier using eclipse as it provides us the opportunity to create a template for a test class and select the methods from that class we would like to test. With the creation and logic behind the UML of the skeleton classes, everyone contributed equally and I made my best attempt to get everyone involved and share ideas.

We split the workload evenly between the two, where Hannah did the Tills, Trucks and Ticker test classes and I did the Sedan and Pump test classes. There were two other large test classes which we also evenly split called Station and Queueable, resulting in a total of 7 test classes which we felt were adequate to meet the testing requirements. With any issues during the testing, we would consult each other first to share ideas, and if that was not successful we would ask our peers for any suggestions.

**Learning Experience:**

What I have learnt from carrying out the implementation in general is, how to assign tasks to individuals with different abilities, how important communication is within a group to improve understanding of work done individually towards the group and chemistry in order to create a strong relationship so that you trust the person to get the work done to a standard that everyone would be happy with, but most importantly, having someone appointed as a leader to keep the team on track and organised yet maintain a group with everyone at an equal level of authority so the leader can adjust timings and meetings per everyone’s needs. Focusing on Java itself, I have learnt how to write java documents and test classes for various methods in different classes especially using special syntax such as ‘@see’ where necessary. I have also improved my knowledge on different types of classes such as abstract and superclass, to see how they could be implemented within our project. A combination of learning and improving existing skills within a group gave me an insight into how group work within a job may be in the future.