**Challenges and difficulities faced**

The following are some of the challenges faced while developing the system and lessons learnt from them.

* Java programming language - This was a challenge given the limited experience with regards to Java programming language, however, this assignment provided a great opportunity to learn the language syntax and understand the core principles involved since the first week of development.
* System requirements and design flow - Identifying a clear design flow was a challenge at first. This challenge was however mitigated by coming up with proper flow charts that defined the requirements of the system and how to traverse through the problem spaces.
* With a proper system flow, it became easy to choose and implement the appropriate design patterns that were needed.
* InstantiationException - There was a problem when trying to instantiate an abstract class outside of its package. However, this problem was solved by throwing an InstantiationException to the class where we call the abstract.