

# 1 Task 1 Analysis

## 1.1 Subtask A Identifying Use Cases

The first subtask was a little bit hard for me. It was my first time trying to identify use cases. After I understood how to identify use cases it became easier since I already had one use case done in the previous assignment. Also, documenting the use case was hard since I did not know how to write the structure and what terms to use in use cases. Scenarios was a bit hard since it took me some time to understand the aim of “Main Scenarios” and “Secondary Scenarios” it and the (pre and post conditions).one thing that was easy to do was to draw the diagram using the websites provided through the assignment 2 instructions.

## 1.2 Subtask B Robustness Diagrams.

The most difficult tasks for me was to do the Robustness Diagrams. I had to do some research to understand the concept of Robustness Diagrams. I had to read and watch videos to figure out what is Robustness Diagrams. It was my first time using UML diagrams so I had to understand what are the UML and how to use it. Moreover, I had to download some UML programs since the websites provided in assignment 2 instructions do not cover Robustness Diagrams. It took me a while to draw the Robustness Diagrams snice I had to get used to the UML programs and understand how to draw Robustness.

## 1.3 Subtask C Case Realization

This task was a bit easier since I became acquainted with UML because of the diagrams I did in the previous tasks. The only thing that took some time as to understand the structure of sequence diagram. There are different kind of objects shapes and massages arrows to use, After I made the sequence diagram I was confused so I had to ask and do some research on which type of indicator (massages between objects) and objects shapes to use. Thanks to the help of assistant teachers and his expiations on the white board it made it easier to know what type I should use and how to link them.

## 2 Design

This task was tricky to figure out. I had to understand how to convert XML files to Objects then translated to JSON to view them on web (the localhost:9090). I had to read and do some research on how to convert XML objects. After Reading on how to convert XML objects form( <https://www.journaldev.com/1234/jaxb-example-tutorial>) and watching some YouTube videos I understood how to convert XML objects. It took me some time to do the diagram which reads XML files and convert them to object and then to JSON, since I had to design the whole thing without the implementation and I had no idea if my diagram design was right and would work if I implemented based on it.

## 3 Implementation

The design I made in task 2 for the TOXML did not work since it was my first time designing a sequence diagram before implantation it. The implementation was hard since I did not know about the syntax on how to Convert to XML and how to use it correctly. I faced some errors in the class book but I managed to fix them in a short amount of time. (The Delete book) also took some time since i had no idea on how to implement it. I did my implementation incorrectly, I think it was because I did not know how to use response correctly. However, I gained a lot of experience in UML and also in implementing the code and how to spot my mistakes efficiently.