<center>**Iteration #2**</center>

Introduction

This document is the second Iteration and is going to be updated and used for the tasks to follow. In the next Iterations, the missing parts or not completed parts and new requirements and features will be added and updated. Starting with planning, analyzing, designing, implementing and lastly testing. All needs to be documented properly in case of reusing the system.

Planning

The planning will be in all Iterations the same and separated in smaller tasks. First, all the diagrams must be double checked and updated. We have already the existing getBook and getBooks. A new requirement deleteBook has been asked for, so this one has to be updated and all old use cases double checked for correction. After that, the activity / robustness/ sequence diagrams should be controlled and updated too.

Implementing

Taking the sequence diagrams and the provided resources, the implementation should be completed without any struggles. The customer wants an option of deleting a book from the system. By clicking on the selected book a delete button should appear and by clicking that button the book should be deleted from the list. Two methods, readXml and writeXml will be needed for reading and writing to the provided Xml file. Adding a couple of lines with the logic to the RemoveBookResource should be completed without further struggles.

Testing

The testing part will again be the same in all Iterations and will follow the same structure. First, the document "Test Plan" must be controlled for correction and updated with the missing test cases. A plan must be created on how the testing will be done and what should be tested besides the already existing test cases. In this Iteration the testing of the method deleteBook and the RemoveBookResource should be done. All new methods should be tested with Junit tests and lastly the API should be tested too.

4. Milestones / Time plan:

-starting the planning / 2 hours

-implementing / 6 hours

-testing / 4 Hours

Work Breakdown Structure

- Iteration #2 (this document)

- Project Plan

- Use Case Diagrams / Activity Diagrams / Robustness Diagrams / Sequence Diagrams

- Design with diagram and description

- Test plan + Test Cases

- Fully working and well commented code

- Report with all personal reflections

- Time log

This Iteration was fulfilled without difficulties. First the planning of the whole structure and diagrams and plans have been done. Following the update of the Project Plan, which went smooth as well. The Implementation was already done, but I cleared the code a bit up and did some proper commenting as there was some time for that, because the Implementation already worked. This time I chose to create more methods in the Catalog class and use this methods for the implementation in the RemoveBookResource class to get a better structure in the code and for better understanding. After that I took a look at the Use Case Diagrams, Robustness Diagrams and Sequence Diagrams and updated all of them. This had to be done as the code was updated as well, and the logic of the diagrams should follow the logic of the codes. I added the new Use Case and made all required diagrams with it. Lastly I postpone all the testing to the last Iteration, because I am still not confident about the testing part. Time Log is being updated consistently in the document "Time Log".