Iteration #1

Introduction

This document is the first Iteration and is following the Iteration Plan 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. 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 the Use Cases must be controlled for correction and updated with the new required features. Following that, activity diagrams must be created for a better understanding of the flow of the use case. Then Robustness diagrams will help for each feature to analyze the steps described in the use cases and lastly sequence diagrams for planning the implementation of the use cases.

Implementing

Taking the sequence diagrams and the provided resources, the implementation should be completed without any struggles. Starting with converting the created object Book and converting it into a Json String. Following that, answering the request in the web browser. Implementing the GetBooksResource. This subtask is done when we see the JSON object representing a List of Book Objects on the screen.

Testing

The testing part will again be the same in all Iterations and will follow the same structure. That means that the testing will be split into smaller tasks. 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 the first Iteration the testing of the Object Book and the GetBooksResource 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 #1 (this document)

- Vision 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 Vision document, as I finally fully understand what the whole system is about and what it should look like and what the requirements are. It was also easier to write it now than in the beginning when I had not a big Vision of the whole system. But after all the assignments, I know what the requirements are, what the "customer" wants, what has to be done and how to get it to paper. After that I updated 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. Use Case Diagrams, Robustness Diagrams and Sequence Diagrams were all up to date at this point, so I only had to do the Activity diagrams which I haven't fulfilled the last time. Test Plan and Test Cases will be updated at the Second Iterations as I am still not fully confident about testing. Time Log is being updated consistently in the document "Time Log".