



1DV600

Report
- with all personal reflections



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Task 1 Planning

Reflection

In the beginning I was bit confused regarding the structure of plan, then I decided to make a simple and clear structure which shows all the tasks that I will perform in order to complete the system. I also mentioned in the iterations plan document that I decided to build on previous assignments. I was very clear regarding the requirements about this project from previous assignments. So identifying requirements was not hard. So far I have not got reply on assignment 2 but still I felt that I should improve my design, so I added that too in the planning. This time I decided to do all the work in one day because I have exam in other course which means I made very strict and tight plan in order to finish this in one day. I have not got any problem while creating the plan.

Task 2 Iteration #1

Reflection

Writing the detail planning was very easy for me because I knew that I will begin with modifying the old design. This time, creating diagrams and design took very less time and make more sense as compare to last because during previous assignment I was focused on GUI interface rather than API. Now I made everything according API view which was more understandable and easy for me. I already had Test plan from previous assignment, so adding new requirements into it was not big deal. Because I changed the design, so I have to also update the test cases such as rather than saying user press delete button, I simply say user made DELETE request using API etc. Implementing test cases was very easy because of design and use cases. I have used mockito framework for testing which helps me to speed up my testing. Overall I am very satisfied with new design as compare to past and all the tasks/goals have a been easily achieved of this iteration.

Note: Please add mockito dependency in the 'build gradle file' for running the tests. In addition, I made an assumption that if anything goes wrong while proceeding the client request I will return 404 (because it is part of API) otherwise 200.

```
!
! dependencies {
!     compile 'io.dropwizard:dropwizard-core:0.8.0'
!     compile 'io.dropwizard:dropwizard-assets:0.8.0'
!     compile 'org.codehaus.jackson:jackson-mapper-asl:1.9.13'
!     testCompile 'junit:junit:4.11'
!     testCompile 'io.dropwizard:dropwizard-testing:0.8.0'
!     testCompile 'org.easymock:easy-mock-all:1.2.3'
!     testCompile 'org.mockito:mockito-all:1.9.5'
! }
! |
```

Task 3 Iteration #2

Reflection

Creating activity, robustness diagrams was very similar to others which also makes it easy to create. I stuck with one problem while implementing add a book. It was related to 'publishDate' attribute. However, after printing out the JSON string, I easily found that XML file use 'publish_date' whereas front end use 'publishDate'. For solving this problem, I create a simple method which replace 'publishDate' to 'publish_date' and vice versa according to needs. As I

already have some experience of testing, it was very easy for me to implement unit tests. Overall, I managed to achieve all the milestones of this iteration.

Task 3 Iteration #3

Reflection

This iteration was the biggest iteration among all the others. 'Search book/s' was optional but I made it. Before implementing, I was bit unsure how and in which class I will get searched string. After looking the front end javascript code I found the answer and decide to implement it in 'GetBooksResource' class because this 'Search book/s' also call GET function. Again Testing was very easy. I have made all the API tests except 'Search book/s' because I realised that it will be same as 'SearchBooksTest.java' class in 'useCases' package. I also realised that I have made many test cases which are very similar to each other but I decided to keep them all. I have already made the proper structure of Project plan during last assignments, so updating it was very easy. Creating test suits was extra, however it was very easy task.

In general, I would say that first assignment and third assignment helps me lot in documentation because in first assignment I spent quite much time to make a good project plan which I can easily update, and in assignment three I tried to make a good test plan which I can also easily update because I realised that I need these documents during last assignment. Overall, I am very satisfied with the knowledge I learned during this course.