



**Linnéuniversitetet**

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Project

## Task 2

*Subtask 1,2,3*



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# 1 Introduction

A partially finished web application has been given, which is the basis for a library system with the purpose to create, update, read and delete books. The web application based on two modules. The first is a completed front-end that will be used to test the code developed through out the process. The second module is partially completed and requires more back-end development for the library system to be fully functional. A virtual machine is also required to execute the code from the back-end. This virtual machine will be run by the software Vagrant.

## 1.1 Project scope

This project will deliver a fully functional library sytem which can acieve the following:

Project plan	Requirements
	Create a book list
	Update
	Delete
	Test back/end functionality of the system

## 1.2 Project goals

The entire project consists of four assignments, each with their own sub-tasks. Therefore an iterative process will be used in the development of the unfinished server. The main goal of each assignment is presented here along with the expected completion date – assignments will be updated as the project progresses:

### Iteratons

### Goals

Iteration 1	The goal of this task is to give a list of books in result the user should get it as a JSON object (an associative array), when the client request using <a href="http://localhost:9090/api/books/">http://localhost:9090/api/books/</a> to the server.
Iteration 2	Analyse and create a Json in XML format and implement the design

### 1.3 Stakeholders Goals

User	Creates a book, update and delete
Developers	Test back-end of the system functionality

### 1.4 Resources

Development processed used based on the following resources:

#### 1.5 Man-Power

Role	Implement
Worker	<b>1</b>
Responsibility	<b>All included</b>

#### 1.6 Materials

Function	Name	Purpose
Text Editor	Atom	Development of server
Virtual machine	Vagrant	Execute code

#### 1.7 Risks

The following are list of promise that a developer and user might face at the project delopment.

##### ***Problem 1***

<i>I have trouble sometimes with editor</i>	
<i>Effect:</i>	Time wasted
<i>Occurrence:</i>	Medium
<i>Solution</i>	Consideration during the schedule planning

## ***Problem 2***

Apparently, I am the user/developer and this course is parallel with another one.	
<i>Effect</i>	Low grades, failure and unfinished assignments.
<i>Solution</i>	Consideration during the schedule planning and also working harder.

## **2. Development process**

There are three iteration in this task, detailed as following:

### **2.1 Iteration 1: Personal Planning, vision and Project plan**

#### **2.1.1 Goals**

Iteration goals are:

- The goal of this task is to give a list of books in result the user should get it as a JSON object (an associative array), when the client request using <http://localhost:9090/api/books/> to the server.
- Create a vision document
- Implementing the design

#### **2.1.2 Divided Tasks**

The tasks were divided to small task as following:

#### **Iteration is in 1 tasks**

Task	Goal
Project plan	Create a project plan
Vison	Create a vision
Personal planning	The goal of this task is to give a list of books in result the user should get it as a JSON object (an associative array), when the client request using <a href="http://localhost:9090/api/books/">http://localhost:9090/api/books/</a> to the

	server.
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Subtask 1	Goal
books	Create a package “model” with a class book list and method to get them
Json	Convert created object to Json object
Web	System-println book list on the api/books

### 2.1.3 Milestones

	Milestones	Date end
1	Task 1: Project plan	5 Feb 2018
2	Task 2: Vision	5 Feb 2018
3	Task 3: Personal planing	5 Feb 2018

### 2.1.4 Iteration Deliverables

Source code	Includes all applied implementation given for the iterations
Project plan	iteration <b>1</b>
Report/Personal Reflection	Personal reflection for each task
Time Log	Time used on every task

## 2.2 Iteration 2: Analysis, Design and implementation

### 2.1.2 Goals :

Iteration goals are:

- Analyse two Use Cases
- Design a book list in XML format
- Implement the design

### 2.1.3 Divided Tasks

The tasks were divided to small task as following:

Task	Goal
Analyse	Identify two Use Cases
Design	Design a book list in XML format
Implementation	Design Implementation

Subtask 1	Goal
Identify Use Cases	Identify the use case in the book list given in task 1
Robustness Diagrams	Create a robustness diagram that show the logic of communication
Use Case Realization	Describing the design implementation and the reflection

### 2.1.4 Milestones

	Milestones	Date end
1	Subtasks and personal planning	19 Feb 2018
2	Project	19 Feb 2018
3	Vision	19 Feb 2018

### 2.1.5 Iteration Deliverables

Project plan	Generally, iteration 1, and plan 2
Source code	Includes all applied implementation given for the iterations
Design	Sequence and class diagrams in Task 2
UML Diagrams	Activity, robustness and sequence diagram based for task 1
Report/Personal Reflection	Personal reflection for each task
Time Log	Time used on every task

### 2.1.6 Project Plan Versions

Date	Version	Improvement
28 Jan 2018	<b>1.0</b>	
13 Feb 2018	<b>1.1</b>	<b>Iteration</b>



## References

Place your references here

# Appendices

Appendix A Entitle your appendix

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