



1DV600

Vision Document



13 Mar, 2017

Semester: Spring 2017
Course: Software Technology
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Web Application

General Information: The given web application is a book library system and its purpose is to create, read, update and delete (CRUD) a book. It is a half-finished web application consists of two modules, the first module is a fully functional front end (client) which we will use to verify the code that we will write during the development of the partially implemented back end (server). The application stack is developed in a modern way which means these two modules will communicate via HTTP request specified in a given API. In result, no rendering is performed on server side because front end is implemented using Single Page Application (SPA) architecture and the only way to know how to communicate is to follow the API. Furthermore, for executing the application server, a virtual machine is required that is managed by Vagrant whereas the client side is executed in web browser.

Features:

1. Create a book
2. Modify or Update a book
3. Delete a book
4. View a book
5. View a list books
6. Search a book by author or title

Project Goals The development phase follow the iterative process principles. In total there will be 4 iterations. The goal and end date of each iteration is as follows:

Iteration #	Goal	End Date
Iteration #1	Present a list of books as a JSON object (an associative array) for the user when the client requests it using http://localhost:9090/api/books/ to the server.	31 Jan 17
Iteration #2	Analyse(View a list of books and Delete a book), Design(The logic to fetch books in XML format and Delete a book) and Implement the design	12 Feb 2017
Iteration #3	Create test plan, test cases, unit tests as well as API tests	4 Mar 2017
Iteration #4	Complete the system in iterative development(1, 2 and 3)	13 Mar 2017

Stakeholders Goals

Stakeholder	Goal
User	Wants to create, update and delete a book using API
Developers	Wants fully tested back-end functionality of the system