



Vision Document

Assignment 1

- Personal planning, Vision and Project Plan



28 Jan, 2017

Semester: Spring 2017

Course: Software Technology

Author: Sarpreet Singh Buttar

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.

Our Tasks: We will use Iterative process for the development of the back-end (server). There will be 4 iterations in total and each iteration must be accompanied with a time log. This time log should contain the date, time and task to be performed. This project will cover planning, implementation, reflection, documentation, testing, design, analysis, project plan etc. In the first iteration, we will implement a functionality which will present a list of books on a screen when a client will request it for the user by calling the URL `http://localhost:9090/api/books/` to the server. For implementing this functionality we will follow plan, implement and reflect pattern. In addition we will also create a project plan which will describe the current iteration. We will update the project plan as we will plan the other iterations. Other iterations will be discussed later on. However, the main functionality that we will implement in these iterations are create, read, update and delete (CRUD) a book including the testing of these functions.