**Software Project Management Plan**

Revision: Version 2.0

Author: Oluwasanjo Okeowo

Preface: Book Finder

**Table of Contents**

1. Introduction
   1. Project Overview
   2. Project Deliverables
   3. Evolution of the SPMP
   4. Reference Materials
   5. Definitions and Acronyms
2. Project Organization
   1. Process Model
   2. Organizational Structure
   3. Organizational Interfaces
   4. Project Responsibilities
3. Managerial Process
   1. Management Objectives and Priorities
   2. Assumptions, Dependencies, and Constraints
   3. Risk Management
   4. Monitoring and Controlling Mechanisms
   5. Staffing Plan
4. Technical Process
   1. Methods, Tools, and Techniques
   2. Software Documentation
   3. Project Support Functions
5. Work Elements, Schedule, Budget
6. **Introduction**
   1. Project Overview

This project is a web application where anyone can the search engine on the website to find their favorites books. The users will be able to find their books using books titles or author names. The site will then show results that best match the search. Click the image of the books will lead to a redirection to the book on books.google.

* 1. Project Deliverables

|  |  |
| --- | --- |
| Deliverables | Delivery Dates |
| Topic Proposal | 06/04/2021 |
| Design Review Meeting | 06/30/2021 |
| Tool Selection Review | 06/30/2021 |
| SPMP | 06/30/2021 |
| Use Cases/Requirements Pushed To Repository | 06/30/2021 |
| System Test Procedure | 07/23/2021 |
| Milestone Review | 07/23/2021 |
| Final Presentation | 07/26/2021 |

* 1. Evolution of the SPMP

Any anticipated or unanticipated changes made will be reflected in an updated SPMP document under the version history.

* 1. References

[*https://ase.in.tum.de/stars.globalse.org/stars1/docs/SPMP/Examples/Examples.html*](https://ase.in.tum.de/stars.globalse.org/stars1/docs/SPMP/Examples/Examples.html)

[*https://computersciencesource.wordpress.com/2009/11/22/year-2-software-engineering-use-case-diagrams-descriptions/*](https://computersciencesource.wordpress.com/2009/11/22/year-2-software-engineering-use-case-diagrams-descriptions/)

* 1. Definitions and Acronyms

SPMP – Software Project Management Plan

UI – User Interface

API – Application Programming Interface

HTML – Hypertext Markup Language

CSS – Cascading Style Sheets

1. **Project Organization**
   1. Process Model



* 1. Organizational Structure

Diagram

Description automatically generated

* 1. Organizational Interfaces

No subcontractors. Using Netlify to host the website.

* 1. Project Responsibilities

|  |  |
| --- | --- |
| Role | Description |
| Project Advisor | Advises the manager on what needs to be done for the project |
| Project Manager | Manages the team and makes sure everyone is on task and completes their part on time |
| Tester | Test every function that are on the website to see if they are running smoothly |
| Developer | Integrate the front-end and back-end of the website  Fix bugs |
| Documenter | Organize each document that is documented during the development of project  Updates SPMP |
| Webmaster | Maintain the website |

* 1. Milestones

|  |  |
| --- | --- |
| Milestones | Completion Dates |
| Requirements | 06/30/2021 |
| Tool Selection | 06/30/2021 |
| Use Cases | 06/30/2021 |
| SPMP | 06/30/2021 |
| Front-End | 07/12/2021 |
| Back-End | 07/21/2021 |
| Software Installment | 07/21/2021 |
| Add API/Update UI | 07/20/2021 |
| Deploy to Website | 07/21/2021 |
| Testing | 07/21/2021 |
| Present | 07/26/2021 |

1. **Managerial Process**
   1. Management Objectives and Priorities

The priority of this project is to integrate all of the functional requirements by the system test procedure delivery date.

* 1. Assumptions, Dependencies, and Constraints

Assumptions: Users will be able to find their favorite books by searching book titles or author names by the system test procedure.

Dependencies: The team gets everything done in time

Constraints: Deadlines

* 1. Risk Management

There are no contractual risks. If it’s determined that the size of the project is too large, the team will remove functions that aren’t essential to the project.

* 1. Staffing Plan

There are two members on the staff, with one member doing five roles and the other member advising throughout the project.

* 1. Monitoring and Controlling Mechanisms

The members will meet occasionally on Discord to discuss the project and new updates.

1. **Technical Process**
   1. Methods, Tools, and Techniques

For the back-end we will be using JavaScript, while front-end we will be using react, JavaScript, bootstrap, HTML, and CSS.

* 1. Software Documentation

Updates pushed through git, thorough in-line commenting within code, modifying/updating SPMP as changes arise.

* 1. Project Support Functions

Quality Assurance and Verification/Validation Plans: Testing after every update. Identifying any bugs and getting them fixed immediately.

1. **Work Breakdown Structure**

**Diagram

Description automatically generated**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Work Elements | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 |
| Create development plan  (SPMP, Tool Selection, Requirements, Use Cases)  Research and become comfortable with required tools (JavaScript, React, Bootstrap, HTML, CSS, Netlify, GitHub)  Develop a skeleton/blueprint of the front-end layout  Design the back-end to search for books (Develop with the functional requirements in mind)  Add the API and finish the user interface (google.books API for fetching the books) |  |  |  |  |  |