**Software Project Management Plan**

Revision: Version 1.0

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Preface: Book Finder

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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. There will also be an option to find out more details on the book that 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

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



* 1. Organizational Structure

Diagram

Description automatically generated

* 1. Organizational Interfaces

No subcontractors. Using Heroku 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. **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 node.js & express, while front-end we will be using react.

* 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**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Work Elements | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 |
| Create development plan  Research and become comfortable with required tools  Develop a skeleton/blueprint of the front-end layout  Design the back-end to search for books  Add the API and finish the user interface |  |  |  |  |  |