

Software Project Management Plan “Thrive2bemindful”

Version Release

1.1 Initial Document Release for Feedback

Table of Contents

1. Introduction

- 1.1 Project Overview
- 1.2 Project Deliverables
- 1.3 Evolution of the SPMP
- 1.4 Reference Materials
- 1.5 Definitions

2. Project Organization

- 2.1 Process Model
- 2.2 Organizational Interfaces

3. Managerial Process

- 3.1 Management Objectives
- 3.2 Assumptions, Dependencies, and Constraints
- 3.3 Risk Management
- 3.4 Monitoring and Controlling Mechanisms

4. Technical Process

- 4.1 Methods, Tools, and Techniques
- 4.2 Software Documentation
- 4.3 Project Support Functions

5. Description of Work Packages

- 5.1 Work Breakdown Structure (WBS)

1. Introduction

1.1 Project Overview

Due to COVID-19, many people have suffered tremendous losses that result in deteriorating mental health. This website was created to assist the millions of people that struggle with mental illness, but do not have access to treatments or are not ready to seek help. With many practices becoming overloaded with patients and inability to pay for treatments, there is a high demand for cost efficient ways to seek help. This site will provide resources to learn about mental illnesses, tips and activities to improve mental health, and further resources if more help is needed. Users will have the option to utilize the free, limited version of the site or pay a subscription fee of \$4.99 a month to access the full, paid version. The full version of the site grants access to the tips and activities catered to the user.

Major milestones include:

- Hosting interviews with clients to receive input and feedback in order to incorporate and add desired characteristics into the product.
- Project adaptability to conform to new changes from customer desired amenities

1.2 Project Deliverables

All items to be delivered, including delivery dates and location

- Requirements: October 8, 2020
- Tools: October 8, 2020
- Initial Prototype:
 - Home page: October 20, 2020
 - Learn page: October 20, 2020
 - Resources page: October 20, 2020
 - Activities page: October 20, 2020
 - Subscribe page: October 20, 2020
- Frontend: October 24, 2020
- Backend: October 22, 2020
- Testing plan: October 30, 2020
- Second version of prototype: October 31, 2020
- Working prototype: November 15, 2020
- Code: November 18, 2020
- Testing: November 20, 2020
- Website release: November 24, 2020

1.3 Evolution of the SPMP

Plans for anticipated and unanticipated change

Based on the use cases, a subscription option is anticipated to access the paid, full version of the site. It is planned in the use cases to maintain the other tabs and sections of the site. Any unanticipated changes will be assessed and added to the task breakdown and scheduling to ensure it is completed in a timely manner.

1.4 Reference Materials

- Research materials (NIH, etc.)
- https://www.aaf.org/_pdf/aaf%20website%20content/513_ethics/iae_principles_practices.pdf - Institute of Advertising Ethics Principles and Practices
- Gantt chart template <https://www.officetimeline.com/gantt-chart-template>
- Week 4 slides

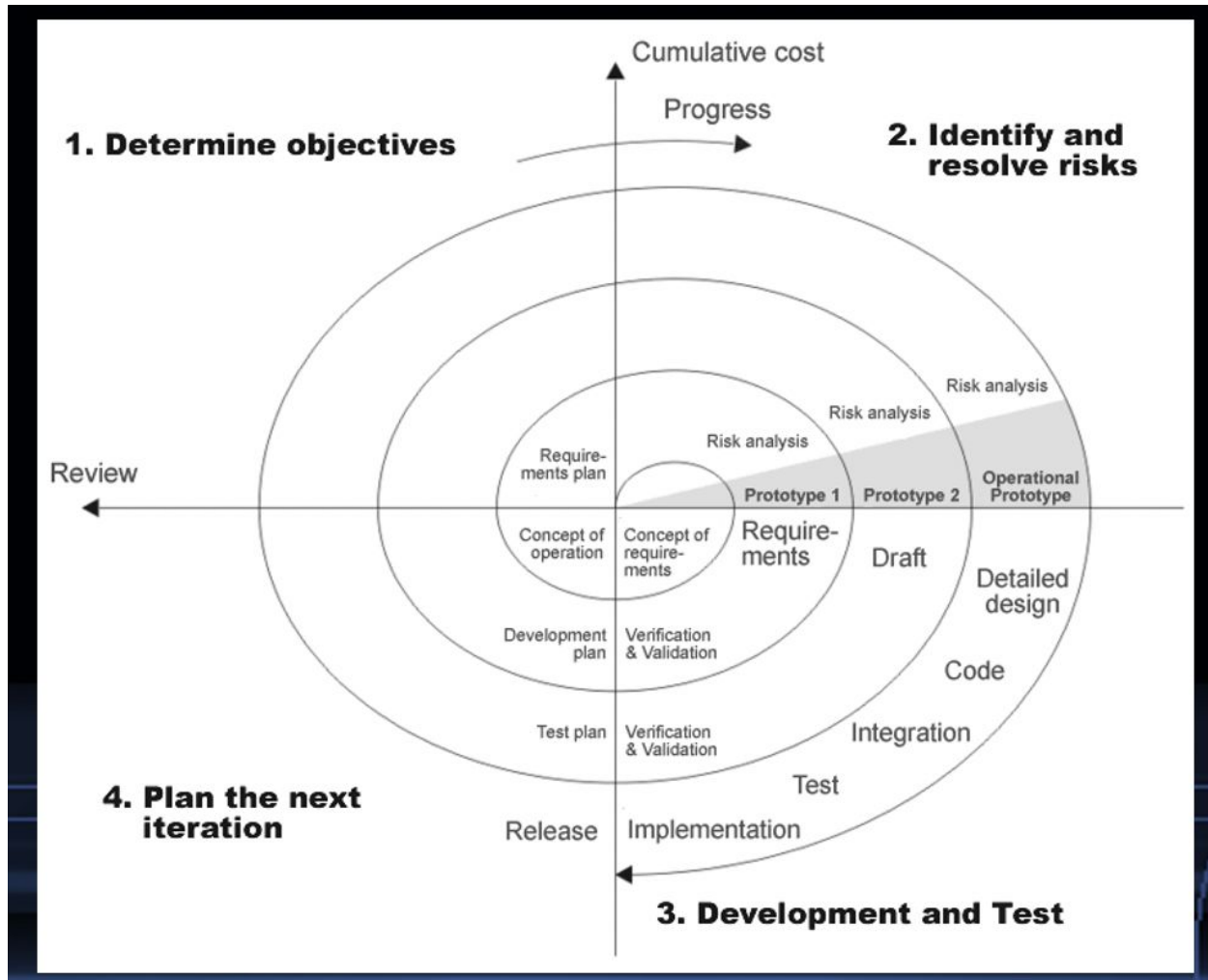
1.5 Definitions and Acronyms

- WBS: Work Breakdown Structure
- PTSD: Post traumatic stress disorder
- Learn tab: the section of the website that provides information about the common mental illnesses suffered throughout the pandemic and in general.
- Resources tab: the section of the website that provides information on seeking further help, hotlines, and further resources.
- Activities tab: the section of the website that provides tips and activities that lead to improved mental health

2. Project Organization

2.1 Process Model

This project will utilize the spiral process model. This model will allow each phase to be broken down. The requirements of the phases are organized into loops and risks will be assessed and minimized throughout the process. Once the requirements are completed, the prototype will begin to be developed and tested until it is ready to be finalized and released.



2.2 Organizational Interfaces

I will develop and maintain the website. Relations with other entities will include client interviews and meetings to get feedback on desired changes and amenities. This will allow me to improve the site and cater to the user's wants and needs. I will also be in contact with current and potential advertisers, the alternate form of profit aside from user subscriptions. There will be anticipated change with the use of different hosts and database tools.

3. Managerial Process

3.1 Management Objectives and Priorities

- Create and update project documentation of requirements, tools, planning, cost analysis, risks, and any anticipated and unanticipated changes
- Keeping up with deadlines to ensure the project is completed by the client's desired time.
- Organizing regular client meetings to keep the client informed and to receive feedback
- Ensure that the developed software meets HL mandates
- Keeping track of major development changes
- Testing the site regularly to maintain functionality

3.2 Assumptions, Dependencies, and Constraints

- Constraint:
 - The project must have a working prototype by the beginning of December to present functionality
- Contingency:
 - Scheduling tasks and setting deadlines for each section of the project to ensure that all components will be completed on time.
- Constraint:
 - There is no budget or funding.
- Contingency:
 - All development will be done using open-source software for implementation.
- Constraint:
 - The site must have advertisements.
- Contingency:
 - All potential advertisers must adhere to a strict code of conduct based on the agency or organization the site is contracted by. The Institute of Advertising Ethics, Principles, and Practices guidelines will be utilized to audit the potential advertisers.
- Constraint:
 - The users want a fun and interactive experience that makes it easy and desirable for them to utilize the site.
- Contingency:
 - Research the industry trends to obtain a better understanding of users' expectations and desires. Ensuring that users have opportunities to interact with the site is important.

- Constraint:
 - Information and recommendations must be accurate and safe.
- Contingency:
 - A disclaimer should be used to notify users that this is not a medical or professional treatment, but a resource and additive to benefit mental health. The disclaimer should also inform users to seek further help if symptoms are serious and threatening for both the user's safety and protecting my site from any legal complications.

3.3 Risk Management

- Risk:
 - Due to COVID-19, everything must be remote including development and meetings with clients.
- Contingency:
 - Remote meetings must be scheduled with clients and an interface must be chosen and set up to host the remote meeting.
- Risk:
 - There is no funding.
- Contingency:
 - Product testing must be done in-house
- Risk:
 - Personally Identifiable Information, Personal Medical Information, or financial information may be stolen if breaches occur within the system.
- Contingency:
 - Payments and account management must be done securely and should be encrypted to protect the user's personal and sensitive information.

3.4 Monitoring and Controlling Mechanisms

Scheduling of important milestones are closely monitored with an online scheduler. The important deadlines are listed along with project needs and tasks to be able to visually understand and remember what needs to be completed. There are weekly meetings with the professor to ensure that the project is on track with the schedule and necessary tasks are completed. Additional meetings are also scheduled as needed for guidance and progress checks.

4. Technical Process

4.1 Methods, Tools, and Techniques

- The website will be developed to run on all common browsers including Google Chrome, Safari, Firefox, Internet Explorer, etc.
- The website will be written in JavaScript.
- UI will be developed using React.
- Subscriptions and payments will be done through Paypal.
- The database will be stored in Auth0.
- Hosting will be done through Firebase.

4.2 Software Documentation

A Software Requirements Specification will be used to lay out all requirements of the website's functionality. A Software Design Description will be used to define the sections of the site including the site's UI and required databases.

4.3 Project Support Functions

- Software Testing Plan
 - This website will be tested by test IO in order to:
 - Validate all menu options/user interactions
 - Validate all terms and conditions
 - Validate data throughout the site
 - Validate user log-in
 - Validate that error messages are sent when necessary
 - Validate payments and security

5. Work Breakdown Structure

