

# Gantt

## **(note: full Gantt chart on GitHub)**

- Identify need and benefits
- Meet with the customers
- Establish Use Cases
- List requirements
- Design Documents
- Define database
- Define SPMP
- Define the functionality of the game
- Define the student-expert interaction
- Revise definitions/documents as required
- Research possible website URL
- Research website templates
- Research website host

## **Milestone: Establish project details (3/31/21)**

- Establish website URL
- Establish website template
- Establish website host
- Research possible account system API/plugin
- Contact account system API/plugin
- Research possible payment processor
- Contact payment processor
- Research possible chat API/plugin
- Contact chat API/plugin

## **Milestone: Find all APIs/plugins (4/5/21)**

- Establish connection with payment processor
- Implement payment processor
- Establish Connection to the chat API/plugin
- Implement chat API/plugin
- Establish connection with account system API/plugin
- Implement account system API/plugin

## **Milestone: Connect all APIs/plugins to website (4/12/21)**

- Test APIs/plugins
- Revise APIs/plugins where necessary
- Test Payment processor

## **Milestone: Finish API and website interactions (4/26/21)**

- implementing the functionality of the articles
- Define desired output/control/input (OCI)
- Find a template to use

Establish role capabilities  
Implement roles  
Test roles  
Revise roles as needed

**Milestone: Finish admin/writer/chat (4/26/21)**

Ensure all implementations work together  
Finish designing the website

**Milestone: Finish rough draft of project (4/26/21)**

Test Project  
Revise project where necessary

**Milestone: Finish project revision (4/26/21)**

Test changes  
Revise changes where necessary

**Milestone: Deploy project (4/26/21)**

**Maintenance: maintain project (5/18/21)**

## WBS

### SPMP parts:

#### 1.1 Project Overview

Executive summary: description of project, product summary

The goal of this project is to develop a website for older gamers to use to learn more about the game. In this website, we will develop an interactive chat, a way to search for specific articles, a way for users to interact with each other, and a way for admin to check on the user's roles. This website will be free but have ads and a donation button.

#### 1.2 Project Deliverables

All items to be delivered, including delivery dates and location

All pre-project deliverables will be due at the end of March. The entire project will be due April 24, 2021.

### **1.3 Evolution of the SPMP**

Plans for anticipated and unanticipated change

In the event of an anticipated or unanticipated change, I will redesign as soon as possible to alter the website/SPMP in accordance with the new changes.

### **1.4 Reference Materials**

Complete list of materials referenced in SPMP (subject to change)

4.1-

3CX Live Chat - <https://wordpress.org/plugins/wp-live-chat-support/>

Account system - [https://developer.salesforce.com/docs/atlas.en-us.api.meta/api/sforce\\_api\\_objects\\_account.htm](https://developer.salesforce.com/docs/atlas.en-us.api.meta/api/sforce_api_objects_account.htm)

Payment processor - <https://stripe.com/docs/api>

4.2-

<https://clickhelp.com/software-documentation-glossary/documentation-plan/>

4.3- Originals

Plan to ensure quality assurance:

<https://portal.ct.gov/-/media/Departments-and-Agencies/DSS/CT-METS/Library/General/CTDSSQualityManagementPlanv11.pdf?la=en>

Configuration management plan (IEEE Std 1042):

[https://www.nasa.gov/sites/default/files/t2401\\_-\\_rev\\_b.doc](https://www.nasa.gov/sites/default/files/t2401_-_rev_b.doc)

Verification and validation plan:

[https://www.ucop.edu/information-technology-services/\\_files/itlc/iv-v-plan-template.docx](https://www.ucop.edu/information-technology-services/_files/itlc/iv-v-plan-template.docx)

### **1.5 Definitions and Acronyms**

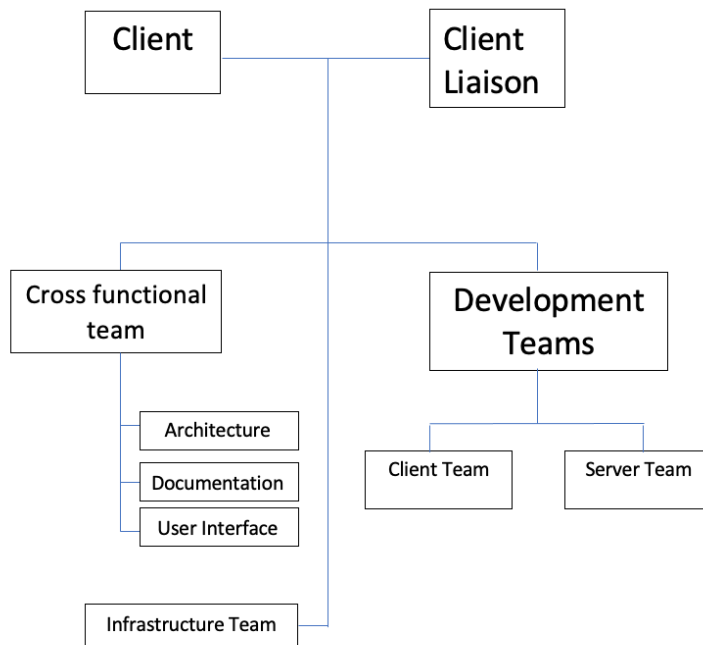
Moderator – A registered user picked by a admin who has the ability to delete comments and ban users

Writer – A registered user picked by an admin who has all abilities of a moderator and the ability to write and edit articles.

Admin – A registered user in charge of managing roles throughout the website.

## 2.2 Organizational Structure

Internal management, organization chart



## 2.3 Organizational Interfaces

Relations with other entities (subcontractors, commercial software)

Since I require an API for the account system, ability to chat, and payment processor (not all of these will be APIs), I must develop a working relationship with the owner of these APIs.

## 2.4 Project Responsibilities

Major functions and activities; nature of each; who is in charge

Matrix of project functions/activities vs responsible individuals

The staff will consist of only 1 person, which will create the project. I will also be the client liaison. I will be in charge of everything.

## 3.1 Management Objectives and Priorities

Describes management philosophy, priorities among requirements, schedule, and budget

The priority requirements are the account system, the payment processor, and the chat. The budget is undefined, but as low as possible and certainly below \$50. My management philosophy is only my best judgment.

### **3.2 Assumptions, Dependencies and Constraints**

External events the project depends on, constraints under which the project is to be conducted.

Take account of any possible errors or difficulties. Any systems the program will rely on, i.e., the different APIs needed

The project depends on getting working APIs for the account system, chat, and payment processors. In addition, the schedule of the project is subject to change based upon the client's desires. Furthermore, I must provide all functionality without ever leaving the domain.

### **3.3 Risk Management**

Identification and assessment of risk factors, mechanism for tracking risks, implementation of contingency plans

1. Project too large: If the project is too large, I will identify areas of the website that can be eliminated then discuss with the client.
2. Project too complex: If the project is too large, I will identify requirements that can be eliminated then discuss with the client.
3. Leaving class: If I leave, I will tell the client.
4. Client dislikes project: If the client is unhappy with my project, we will attempt to fix the website based upon their preferences.

### **3.5 Monitoring and Controlling Mechanisms**

Frequency and mechanisms for reporting

I will report project progress once per week regularly. I will report each time I encounter a serious problem or finish a part of the project and seek help if needed. All reporting will be done through GitHub.

### **3.4 Staffing Plan**

Numbers and types of personnel required to conduct the project

The staff will consist of only one person, which specializes in programming. I will also need to be the client liaison.

### **4.1 Methods, Tools and Techniques**

Specify the methods, tools, and techniques to be used on the project

For my project I will utilize the Waterfall Method.

Step:

1. Feasibility study
2. Requirements
3. Design
4. Implementation
5. Testing
6. Deployment
7. Maintenance

I will use a:

- Chat plugin
- Account system API
- Payment processor API
- Other API's/Plugins if time allows

### **4.2 Software Documentation**

Describe the documentation plan

1. Project Name: paradox explorer (work in progress)
2. Scope and Objectives: Design an interactive website that teaches users about the given game.
3. Detailed Content Plan: The website will include a method for registered users to talk on each article, a way for admin to check on registered user roles, and a way for users to support the website. The website will be free to create an account for the website.
4. Time Estimates: A basic setup of the website should be completed early April in 2021 and the entire project will be finished by April 24, 2021.

5. Responsible Persons: The responsible persons are me alone developing the website.
6. Workflow: I will have hard deadlines and a schedule of when certain tasks will be completed as well as assigning time frames to those tasks.
7. Resources (software, style guides, websites): The website will use a self-built role management system. In addition, the website will use APIs/plugins for the account system, chat, and payment processor.
8. Publishing Details (formats, ways of delivery to end users): I will use GitHub and GitHub actions.

### **4.3 Project Support Functions**

Plans for (at least) the following project support functions.

Plan to ensure quality assurance - evaluates and modifies an organization's procedures to make sure they provide the desired results. A quality assurance plan should include an organizational structure, details on each employee's responsibilities, and the qualifications an employee needs to fulfill those responsibilities.

Configuration management plan (IEEE Std 1042)- the management of software engineering projects.

Verification and validation plan - to identify the activities that will establish compliance with the requirements (**verification**) and to establish that the system will meet the customers' expectations (**validation**).

All the above are on GitHub.

### **5.1 Work Breakdown Structure (WBS)**

Hierarchical decomposition of project into activities and tasks

