

## SPMP

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#### 1) Introduction

##### a) Project Overview

The goal of this project is to create a working web-based slot machine. This will allow users to gamble for free, purchase coins, and maybe in the future gamble with real money. Keeping in mind the slot will not be using any real forms of currency in the beginning and no real winnings beside in game, but users will be able to make in game purchases in order to gain more coins. The website will allow users to just simply run the slot and try to earn the highest score (aka Jackpot).

##### b) Project Deliverables

The following deliverables will be provided.

1. Software Project Management Plan (this document)
2. Gantt Chart
3. Working Online Slot

##### c) Evolution of the SPMP

I have updated and changed my SPMP after the meeting, fixed my Gantt chart and added new use case for accounts.

##### d) Reference Materials

I will continue to add to this section when completing more research

<https://www.projectengineer.net/25-example-project-deliverables/>  
<http://www.slot-source.com/slot-machine-basics/slot-machine-terms-abbreviations-and-acronyms/>

##### e) Definitions and Acronyms

RTP – Return To Player  
API – Applications Programming Interface  
GUI – Computer User Interface  
DBMS – Database Management System

#### 2) Project Organization

##### a) Project Model

This project was started February 5<sup>th</sup>, 2021 and will be completed by the end of the Spring semester. Major milestones I have completed and are working on are the project proposal on February 5<sup>th</sup>, 2021, submitting use cases, SPMP, Requirements, and a repository all completed by March 31<sup>st</sup>, 2021.

This project will use object-oriented code and outside resources for development. I will be using construct a game developing software to help create the slot. Since this

is an individual project, I will be doing all of the work, but will use online resources that I can change in order for my project to be completed on time. I will be using Clubhouse which is a website which helps organize all of my tasks that must be completed for my project to be finished. The files and documents will all be uploaded using GitHub and coded in JavaScript, HTML. There will be properly named repositories for each corresponding file and document.

**b) Organizational Structure**

I will be using the waterfall methodology to conduct this project. I will start by researching about slot templates and how to code a slot, find out how I am hosting my website, and how to create an account for my website. I will be using Construct and it is in java, but lots of event blocks are used for them main part of the code. Next, I am going to implement the changes I made to the slot template or slot I have made myself (I am still not sure which will be more efficient for this project). Adding in custom designs, symbols, sounds, and jackpot screens. After that I will be testing the code, I implemented to check for errors. Finally, I will insert into my website via an Iframe most likely and make sure to keep up maintenance so there are no issues or bugs with the slot.

**c) Organizational Interfaces**

This is an individual project so there will not be too much communication besides between me and my client. In the future I could possibly be talking to online casinos to sell or run my slot, but that would not be for some time.

**d) Project Responsibilities**

I (Brady Ziegler) am responsible for all parts of this project because it is an individual project, but here is a list of some of the different tasks I will be completing.

- Project Manager
- Back end/ Front end Developer

**3) Managerial Process**

**a) Management Objectives and Priorities**

My goal is to create a fully functional slot machine that meets my clients needs. I will be working on the project every Tuesday and Thursday during the week checking off tasks on Clubhouse as I go. I will most likely be using third party software because it not reasonable to completely code all of this from scratch in about a 4-week period while being a full-time student and working part-time. The costs for certain software such as WordPress and Construct it shouldn't be more then about 30\$ for one month. It was around 15\$ for Construct and around 15\$ for my Website.

**b) Assumptions, Dependencies and Constraints**

Assumptions: I assume creating a slot will take me some time to learn the software I am using, so I will have to have strict deadlines for myself. I will have to be patient and do research like watching YouTube tutorials on how to do certain things.

Dependencies: I am dependent on myself making sure to follow through with what I wrote in my proposal and finish my tasks on time.

Constraints: Paying for Construct and WordPress will cost money to keep running (around \$30 a month). Learning how to use APIs like a PayPal API in order to accept money and payments. Construct might not work as planned on WordPress and run as smoothly as I would like.

**c) Risk management**

I will have to do my own risk management because this is an individual project, but I could ask my Professor (Broadwater) for any help. I will have to double, and triple check my documents and work to make sure there are no careless errors. If I use any APIs to make sure they are updated and the same goes with plugins so that they do not break my website.

**d) Monitoring and Controlling Mechanisms**

I will be having to keep track of certain due dates and have good time management when tasks need to be finished. I will be using Clubhouse and my Gantt Chart to monitor all of these tasks and due dates. I will be constantly checking back on my SPMP to identify if any changes need to take place.

**e) Staffing Plan**

Since this is an individual project, I will be the only one working on it, so I don't really have many "back-ups" plans. I do not plan on withdrawing from the course or not finishing the project, so I will be fine. If personal things happen, I will have to let my Professor know and see if I can get an extension, but I don't plan on anything of that nature to happen.

**4) Technical Process**

**a) Methods, Tools, and Techniques**

I will be using GitLab, Clubhouse, Construct, and Discord to code my project and talk to my Professor if I have any questions. I will probably be watching some YouTube tutorials on how to use Construct a coding software to create my slot.

**b) Software Documentation**

Documentation is a major part of successfully completing a project like this to show all the steps I took to get to the final goal. It will also help me in future. Assignments/projects because I can look back and see where I may have slipped up or what I did really well on. I will be using Clubhouse as which is a website to help track tasks and when they are due.

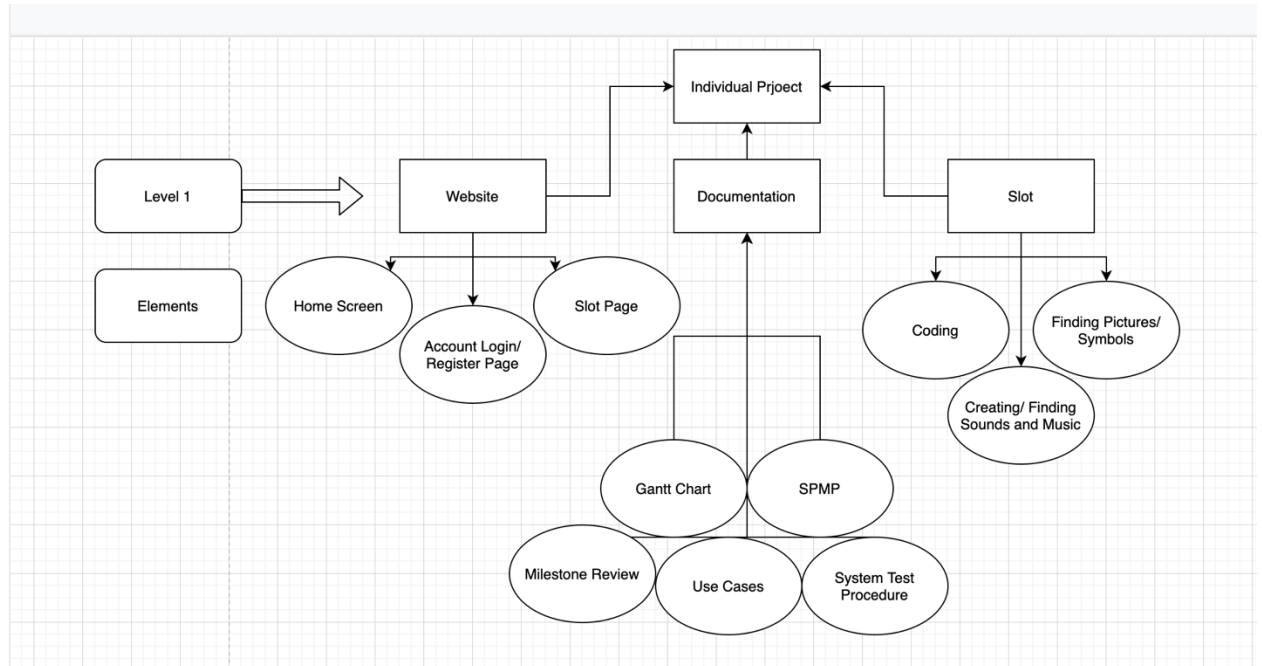
**c) Project Support Functions**

A project support function I have is Clubhouse and my professor. Clubhouse will be helpful because it shows all the tasks and when they are due. My Professor will be a great resource because if I need any help, I am sure she is willing to give me feedback. YouTube is another great support function, because I will need to learn

how to use certain plug ins and how to modify them to my needs. For example, a plugin to create accounts for my website.

## 5) Description of Work packages

### a) Work Breakdown Structure



### b) Dependencies Between Tasks

Certain parts of this project can't be completed until others. For example, I had to submit my proposal and get it approved before I could start doing research on my topic. I couldn't start coding before I did research because I need to know whether I want to use bits and pieces of an existing slot.