**Test Plan**

**The Pixel Wizard**

Prepared by: Judita Kasiliauskaite

Contents

[Introduction 2](#_Toc39331577)

[Objectives and Tasks 2](#_Toc39331578)

[Objectives 2](#_Toc39331579)

[Tasks 2](#_Toc39331580)

[SCOPE 2](#_Toc39331581)

[Testing Strategy 2](#_Toc39331582)

[Unit Testing 2](#_Toc39331583)

[System and Integration Testing 3](#_Toc39331584)

[Performance and Stress Testing 3](#_Toc39331585)

[User Acceptance Testing 4](#_Toc39331586)

[Batch Testing 4](#_Toc39331587)

[Automated Regression Testing 4](#_Toc39331588)

[Beta Testing Participants: 4](#_Toc39331589)

[Test Schedule 4](#_Toc39331590)

[Control Procedures 4](#_Toc39331591)

[Features to Be Tested 5](#_Toc39331592)

[Features Not to Be Tested 5](#_Toc39331593)

[Resources/Roles & Responsibilities 5](#_Toc39331594)

[Schedules 5](#_Toc39331595)

[Risks/Assumptions 5](#_Toc39331596)

[Tools 5](#_Toc39331597)

# Introduction

The product being tested is a 2D side-scrolling platformer game. The characters and the world will be created mainly by using pixel art. The game will have a wizard character (which is the player) navigating through levels which get more difficult each time. The character will use its magic to defeat the enemies in each level and each level will have a boss that must be defeated before progressing onto the next level. Each level will also have various pickups for the player such as health pickups to replenish the player’s health bar in the game.

This game will allow the player to control specific characters, it will have game statistics, relational attributes with other game objects like enemies, allow the player to navigate the levels easily and have obstacles that the player must overcome.

Objectives and Tasks

## Objectives

Describe the objectives supported by the Master Test Plan, eg., defining tasks and responsibilities,

vehicle for communication, document to be used as a service level agreement, etc.

## Tasks

List all tasks identified by this Test Plan, i.e., testing, post-testing, problem reporting, etc.

SCOPE

## General

This section describes what is being tested, such as all the functions of a specific product, its existing

interfaces, integration of all functions.

## Tactics

List here how you will accomplish the items that you have listed in the "Scope" section. For

example, if you have mentioned that you will be testing the existing interfaces, what would be the

procedures you would follow to notify the key people to represent their respective areas, as well as

allotting time in their schedule for assisting you in accomplishing your activity?

# Testing Strategy

Describe the overall approach to testing. For each major group of features or feature combinations,

specify the approach which will ensure that these feature groups are adequately tested. Specify the

major activities, techniques, and tools which are used to test the designated groups of features.

The approach should be described in sufficient detail to permit identification of the major testing

tasks and estimation of the time required to do each one.

Unit Testing

Definition:

Specify the minimum degree of comprehensiveness desired. Identify the techniques which will be

used to judge the comprehensiveness of the testing effort (for example, determining which

statements have been executed at least once). Specify any additional completion criteria (for

example, error frequency). The techniques to be used to trace requirements should be specified.

Participants:

List the names of individuals/departments who would be responsible for Unit Testing.

Methodology:

Describe how unit testing will be conducted, including a description of tests to be carried out. Who

will write the test scripts for the unit testing, what would be the sequence of events of Unit Testing

and how will the testing activity take place?

System and Integration Testing

Definition:

List what is your understanding of System and Integration Testing for your project.

Participants:

Who will be conducting System and Integration Testing on your project? List the individuals that will

be responsible for this activity.

Methodology:

Describe how System & Integration testing will be conducted, including a description of tests to be

carried out Who will write the test scripts for the unit testing, what would be sequence of events of

System & Integration Testing, and how will the testing activity take place?

## Performance and Stress Testing

Definition:

List what is your understanding of Stress Testing for your project.

Participants:

Who will be conducting Stress Testing on your project? List the individuals that will be responsible

for this activity.

Methodology:

Describe how Performance & Stress testing will be conducted, including a description of tests to be

carried out Who will write the test scripts for the testing, what would be sequence of events of

Performance & Stress Testing, and how will the testing activity take place?

## User Acceptance Testing

Definition:

The purpose of acceptance test is to confirm that the system is ready for operational use. During

acceptance test, end-users (customers) of the system compare the system to its initial requirements.

Participants:

Who will be responsible for User Acceptance Testing? List the individuals' names and responsibility.

Methodology:

Describe how the User Acceptance testing will be conducted, including a description of tests to be

carried out Who will write the test scripts for the testing, what would be sequence of events of User

Acceptance Testing, and how will the testing activity take place?

Batch Testing

Automated Regression Testing

Definition:

Regression testing is the selective retesting of a system or component to verify that modifications

have not caused unintended effects and that the system or component still works as specified in the

requirements.

Participants:

Methodology:

Beta Testing Participants:

Methodology:

Test Schedule

Include test milestones identified in the Software Project Schedule as well as all item transmittal

events.

Define any additional test milestones needed. Estimate the time required to do each testing task.

Specify the schedule for each testing task and test milestone. For each testing resource (that is,

facilities, tools, and staff), specify its periods of use.

Control Procedures

Problem Reporting

Document the procedures to follow when an incident is encountered during the testing process. If a

standard form is going to be used, attach a blank copy as an "Appendix" to the Test Plan. In the

event you are using an automated incident logging system, write those procedures in this section.

Change Requests

Document the process of modifications to the software. Identify who will sign off on the changes

and what would be the criteria for including the changes to the current product. If the changes will

affect existing programs, these modules need to be identified.

Features to Be Tested

Identify all software features and combinations of software features that will be tested.

# Features Not to Be Tested

Identify all features and significant combinations of features which will not be tested and the

reasons.

Resources/Roles & Responsibilities

Specify the staff members who are involved in the test project and what their roles are going to be

(for example, Mary Brown (User) compile Test Cases for Acceptance Testing). Identify groups

responsible for managing, designing, preparing, executing, and resolving the test activities as well as

related issues. Also identify groups responsible for providing the test environment. These groups

may include developers, testers, operations staff, testing services, etc.

Schedules

Identify the deliverable documents. You can list the following documents:

- Test Plan

- Test Cases

- Test Incident Reports

- Test Summary Reports

Risks/Assumptions

Identify the high-risk assumptions of the test plan. Specify contingency plans for each (for example,

delay in delivery of test items might require increased night shift scheduling to meet the delivery

date).

Tools

List the Automation tools you are going to use. List also the Bug tracking tool here.