The pixel wizard test plan

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Software Testing project

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Table of Contents

[1.0 Introduction 1](#_Toc39570031)

[2.0 Objectives 1](#_Toc39570032)

[3.0 Tasks 1](#_Toc39570033)

[4.0 Scope 1](#_Toc39570034)

# Introduction

*‘Testing can only show the presence of bugs, never the absence.’*

This test plan is to outline a testing strategy for ‘The Pixel Wizard’, a 2D, cross platform game. As it is impossible to exhaustively test any project the aim here is to help expose any errors in the major components of the game. And by doing so, determine if the product is ready for market.

# Objectives

The objective is to test the main components of the game. I have chosen these components because they are highlighted in the design document. These features include:

* In Game Menus
* Save Functionality
* Control Mechanisms
* Game Play

Test cases will be drafted for each component to outline the tests to be conducted and their outcome.

If bugs are found, they will be logged, categorized and the development team will be notified.

# Tasks

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

There will be several tasks to be completed through the testing process, these include:

* Identifying components to be tested.
* Decide on a testing method appropriate for each component.
* Preform test under varying conditions.
* Logging test result.
* Categorizing errors. (Trivial to Blocker)
* Notifying development team.
* Preform regression test.

# 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?*

**4.0 TESTING STRATEGY**

**4.1 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?

4.2 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?

4.3 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?

**4.4 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?

**4.5 Batch Testing**

**4.6 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:**

**4.7 Beta Testing Participants:**

**Methodology:**

**5.0 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.

**6.0 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.

**7.0 FEATURES TO BE TESTED**

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

**8.0 FEATURES NOT TO BE TESTED**

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

**9.0 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.

**10.0 SCHEDULES**

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

- Test Plan

- Test Cases

- Test Incident Reports

- Test Summary Reports

**11.0 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).

**12.0 TOOLS**

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