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| Software Testing  Test Planning Project |
| GitHub Repository <https://github.com/LuqmanFarooq/Software-Testing-Test-Planning-Project>  Muhammad Luqman  G00353385 |



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### **INTRODUCTION**

#### Project Overview

This game is a 2D side-scrolling platformer, inspired by the likes of ‘Salt and Sanctuary’, ‘Shovel Knight’, and ‘Fancy Pants’, with elements from ‘Skyrim’ (mainly in the way the player character and enemy characters attack). The artwork is inspired mainly by Shovel

Knight, which uses mainly pixel art to create its characters and world. The gameplay is inspired by ‘Salt and Sanctuary’ and ‘Dark Souls’ and ‘Skyrim’, which will see the player navigate progressively difficult levels with a wizard type character that uses magic a lá ‘Skyrim’. Each level has several enemies that the player must defeat to progress. Each level also has a boss that the player must defeat to progress to the next level. Each level contains pickups for the player, such as health pickups to replenish the player’s health.

## Objectives and Tasks

#### Objectives

The software test will ensure that our software is free from input errors and all the game logic will function as intended. For example:

After the game informs the player/user that there are no more waves of enemies, there should not be any more strains of enemies coming to attack the player

enemies and other entities on screen should not behave erratically and all positioning and attack scenarios should be accounted for

pickups work error free and functions as intended.

the player should only be able to “click on” certain elements in the user interface, with extraneous clicks not serving any purpose and performing no action.

## Scope

#### General

* Main Menu Functions.
  + art (world, texture etc.)
  + music, audio and the sound effect.
  + title screens.
  + Buttons and Functions.
* Pause Menu Functions.
  + art (world, texture etc.)
  + music, audio and the sound effect.
  + Buttons and Functions.
* Gameplay Functions.
  + animation (the like and quality of the realism, movement, and frame rate)
  + art (character model, terrain or world, texture, objects, etc.)
  + game logic and flow.
  + scene/level.
  + the action properties.
  + the player properties.
  + the situation to advance to the subsequent level.
  + increasing levels of difficulty
  + the scoring
  + the AI logic (for both offensive play and defensive play; player positioning and movement).
  + statistics (pre-game and in-game like high score and player statistics).
  + the gamepad.
  + the usability of the button functions.

#### Tactics

* Unit Testing on Main Menu Functions assigned to (Team 1) to be completed by 22/05/2020.
* Unit Testing on Pause Menu Functions assigned to (Team 2) to be completed by 21/05/2020.
* Unit Testing on Gameplay Functions assigned to (Team 3) to be completed by 24/05/2020.
* Integration Testing on Main Menu and Gameplay assigned to (Team 1 and Team 3) to be completed by 26/05/2020.
* Integration Testing on Pause Menu and Gameplay assigned to (Team 2 and Team 4) to be completed by 26/05/2020.
* Integration Testing on Main Menu, Pause Menu and Gameplay assigned to (Team 1, Team 2 and Team 3) to be completed by 28/05/2020.