**zTesting Plan**

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| Test Number | Test | Purpose | Test Data | Expected Result | Type | Result | Evidence |
| 1 | When the game is started there is a main menu that has buttons:  “Play Game”, “Settings”,  “Quit” | 1.a. | Running app.exe | The main menu is shown with buttons: “Play Game”,  “Settings”,  “Quit” | Normal | As expected |  |
| 2 | When the user selects the “Play Game” button, the level selection screen is displayed | 1.a.i and 1.a.i.(1) | Click the “Play Game” button | The level selection screen is showed | Normal | As expected |  |
| 3 | When the Settings Button is selected the user is presented with an settings menu allowing the user to customise their controls and change the audio output level | 1.a.ii | Click the “Settings” button | The settings screen is showed which allows the user to customise their controls and change the audio output level | Normal | As expected |  |
| 4 | Each action the player can execute will be listed with their respective key to execute that action with option to select a different key | 1.a.ii.(1) | Click the “Right” action button and then press the “P” key, then play the first level and hold the “P” key | The player moves towards the right of the screen | Normal | As expected |  |
| 5 | To prevent the user from binding multiple actions to the same key | 1.a.ii.(1) | Click the “Right” action button and press the “A” key | The action does not change the key bounded to the “Right” action | Erroneous | As expected |  |
| 6 | To allow the user to change the volume of the in-game music | 1.a.ii.(2) | Move the slider to the maximum value | The volume for the in-game music is increased | Normal | As expected |  |
| 7 | To allow the user to change the volume of the in-game sound effects | 1.a.ii.(3) | Move the slider to the maximum value | The volume for the in-game sound effects is increased | Normal | As expected |  |
| 8 | To allow the player to move horizontally when grounded | 2.a | Press the “D” key | The player’s x velocity increases | Normal | As expected |  |
| 9 | To allow the player to jump | 2.b | The jump button “W” will be pressed | The player will jump | Normal | As expected |  |
| 10 | When the player presses the jump button a fraction too late and are not on the ground the player can still jump | 2.b.i | The jump button will be pressed after the player has walked off a ledge | The player will jump | Normal | As expected |  |
| 11 | When the user presses the jump button slightly too early the player will still jump the moment they touch the ground | 2.b.ii | The jump button will be pressed before the player lands | The player will jump | Normal | As expected |  |
| 12 | The player will be able to dash in the listed cardinal direction by pressing the movement keys and the dash button in various combinations DASH + (UP, UP+RIGHT, RIGHT, LEFT, UP+LEFT) | 2.c | Each set of dash combinations will be pressed | The player will dash in the respective direction | Normal | As expected |  |
| 13 | The player will also be able to jump off walls when the player is holding the key towards the wall and the jump button is pressed. | 2.d | The player will hold the direction facing into the wall and then the jump button will be pressed | The player jumps off the wall | Normal | As expected |  |
| 14 | Each level will generally increase in difficulty, this would be by combining an increase in the length of the level or by requiring the user to have more precise control over the player by executing more difficult jumps and dashes | 3.a | Each level will be played through, and the number of deaths will be recorded for each level | The number of deaths increases per level | Normal | As expected |  |
| 15 | As the user unlocks levels by completing the previous one, the levels that the user has unlocked are saved | 4.a and 4.b | The user will unlock level 2 and then exit the game | Level 2 should still be playable despite having exited the game. | Normal | As expected |  |