Test cases: Display Main Menu

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case # | Test Case Name | Test Case Description | Values | Expected Outcome | Actual Outcome |
| 1. | Displaying Main Menu | When the program is run, it should display the main menu with 5 options | Run ‘application’ | Main menu should be displayed with 5 options.  From 0-4  Option 0. Exit Maze  Option 1. Read and load maze from file  Option 2. View maze  Option 3. Play maze game  Option 4. Configure current maze | Main Menu displayed  And “Menu displayed.” Is returned |
| 2. | Displaying Main Menu Failed | Program might fail to execute or something happen during execution process | Run ‘application’ | Main menu not shown and error returned with “Menu display error” | Main Menu not displayed  And “Menu display error.” Is returned |
| 3. | Enter an unavailable option | On the main menu page, enter an invalid option | Option ‘5’ | An error message should appear.  Saying option out of range and main menu should display again prompting for input | Error message “You have entered an invalid option. Please re-enter your option. And ‘Invalid option selected.’ Is returned. main menu should display again prompting for input |
| 4. | Enter an invalid option using characters | On the main menu page, enter an option with letters | Option ‘abctest’ | An error message should appear.  “Invalid option selected.”  And main menu should display again prompting for input | Program crashes with “Invalid literal for int() with base 10: “abctest”.  Program returns "Invalid option selected." |
| 5. | Enter an invalid option using special characters | On the main menu page, enter an option with special letters | Option ‘!@#$’ | An error message should appear.  “Invalid option selected.” | Program crashes with “Invalid literal for int() with base 10: “‘!@#$”.  Program returns "Invalid option selected." |
| 6. | Don’t enter any option | On the main menu page, don’t enter any options and press ‘enter’ | Option ‘’” | An error message should appear. “Invalid option selected.” | Program crashes with “Invalid literal for int() with base 10: “”  Program returns "Invalid option selected." |
| 7. | Choose option ‘Read and load maze from file’ | On the main menu page, choose the option ‘Read and load maze from file’ and ensure the process runs | Option ‘1’ | The process will run, and it will show ‘Option [1] Read and load maze from file’ | The process will run, and it will show ‘Reading and loading maze from file…’ with the option to enter the file name |
| 8. | Choose option ‘View maze’ | On the main menu page, choose the option ‘View maze’ and ensure the process runs | Option ‘2’ | The process will run, and it will show ‘Option [2] View Maze’ | The process will run, and it will show ‘Viewing maze…’ and after that the main menu is displayed again prompting for user input.  Program returns “Viewing maze." |
| 9. | Choose option ‘Play maze game’ | On the main menu page choose the option ‘Play maze game’ and ensure the process runs | Option ‘3’ | The process will run, and it will show ‘Option [3] Play maze game’ | The process will run, and it will show ‘Playing maze game…’ and after that the main menu is displayed again prompting for user input  Program returns “"Playing maze game." |
| 10. | Choose option ‘Configure current maze’ | On the main menu page choose the option ‘Configure current maze’ and ensure the process runs | Option ‘4’ | The process will run, and it will show ‘Option [4] Configure current maze’ | The process will run, and it will show the configuration menu with the options available.  The program returns "Configuring current maze." |
| 11. | Choose option ‘Exit to Main Menu’ | On the main menu page choose the option ‘Exit to Main Menu’ and ensure the process runs | Option ‘0’ | Should be exited from application | Application prompts if you want to kill the process.  Error during pytest stage because program is exited before return value could be returned. |