

Test Documentation

4 test documents exist:

- Test_maze.py that tests maze.py
- Test_player.py that tests player.py
- Test_score.py that tests score.py
- Test_score_manager.py that tests score_manager.py
- Test_app.py that tests app.py
- Test_game_move.py that tests game_move.py
- Test_game_start.py that tests game_start.py
- Test_maze_view.py that tests maze_views.py

Test_maze.py

List of unit tests and their functions:

- Test_content
 - o Checks to see if Maze class has the content attribute
- Test_player
 - o Checks to see if Maze class has the player attribute
- Test_location
 - o Checks to see if Maze class has the location attribute
 - o Checks to see if the type of the location attribute is a tuple
- Test_can_move_to
 - o Checks to see if Maze class has the can_move_to attribute
 - o Checks to see if it returns the correct Boolean value depending on the location tuple
 - o If tuple location indicates "x" (a wall), return False
 - o If " " (empty, accessible space), return True
- Test_display
 - o Checks to see if Maze class has the display attribute
- Test_find_random_spot
 - o Checks to see if Maze class has the find_random_spot attribute
 - o Uses the find_random_spot function to locate a random location. Return true if it is an empty space and can be accessed by the player sprite.
- Test_exit
 - o Checks to see if the Maze class has the is_exit attribute
 - o Checks to see if the location indicated by the tuple is "E", an exit. Return True if it is the case

Test_player.py

List of unit tests and their functions:

- Test_bag
 - o Checks to see if the Player class has attribute backpack
 - o Checks to see if the type of backpack attribute is a list
- Test_pickup
 - o Checks to see if the Player class has attribute appendItem
- Test_append_item
 - o Tests the appendItem function
 - o Checks to see if appendItem correctly appends the item to the backpack list.
 - o Checks if there is an item in the backpack list, and if the expected output matches the item in the backpack

Test_player.py

List of unit tests and their functions:

- Test_change_name
 - o Attempt to reassign the name attribute of a fixture
 - o Check to see if name attribute of fixture matches expected output
- Test_change_score
 - o Attempt to reassign the score attribute of a fixture
 - o Check to see if score attribute of fixture matches expected output
- Test_change_date
 - o Attempt to reassign the date attribute of a fixture
 - o Check to see if date attribute of fixture matches expected output
- Test_score_to_dict
 - o Use the to_dict() function to convert the score to a dictionary
 - o Check to see if the converted output matches the expected output as dictionary

Test_score_manager.py

List of unit tests and their functions:

- Test_manager_len
 - o Uses the add_score function to add a fixture to an empty list
 - o Tests to see if item has been appended to list
- Test_manager_scores_property

- o Checks to see if the type of .scores of ScoreManager class is a property
- Test_manager_remove_score
 - o Uses the add_score function to add a fixture to an empty list
 - o Then uses remove_score function to remove the item from the list
 - o Checks to see if the list length is 0
- Test_manager_serialize
 - o Uses add_score to append two fixtures to the score list
 - o Tests to compare the values of manager.serialize() and the predicted output. Test passes if the values are equal.

Test_score_manager.py

List of unit tests and their functions:

- Test_get_list
 - o Gets data and decodes for contents
 - o Uses json.loads to obtain contents
 - o Checks to see if the loaded json content matches expected output (ie. Empty)
- Test_put_new
 - o Uses put() on json items
 - o Checks to see if the status code matches expected output
 - o Uses get() and checks to see if get_json output matches expected output
- Test_delete_list
 - o Tests for delete function
 - o Checks to see if status code matches expected output
 - o Checks to see if get() outputs expected output (ie. Empty)

Test_game_move.py

List of unit tests and their functions:

- Test_maze_controller
 - o Tests to see if the fixture has the following attributes:
 - Maze
 - Name
 - Start_time
 - End_time
 - Timer
 - Move

Test_game_start.py

List of unit tests and their functions:

- Test_maze_controller
 - o Checks to see if fixture has the following attributes:
 - Maze
 - Name
 - Run

Test_game_start.py

List of unit tests and their functions:

- Teset_maze_view
 - o Checks to see if fixture has the following attributes:
 - Maze
 - Name
 - Start_time
 - timer