

Team Three: Test Results

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University of Maryland Global Campus

CMSC 495-7382: Capstone in Computer Science

Professor David Castillo

December 12, 2023

Team Three: Test Cases**Table of Contents**

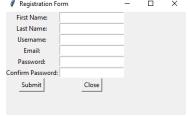
1.	GUI Testing	2
1.1.	Main Menu	2
1.2.	Fortune Menu	3
1.3.	User Menu	5
1.4.	Input Validation	6
1.5.	Random Generator	10
2.	PyUnit Test Cases	12
2.1.	Input Validation	12

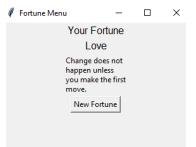
GUI Testing

Tester: Michele Cook

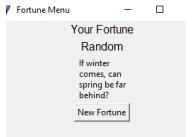
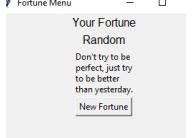
Test Date: December 10, 2023

Description: Test all the actions a user could perform using the Fortune Teller GUI.

<i>Test Case</i>	<i>Description of Test</i>	<i>Input</i>	<i>Expected Output</i>	<i>Actual Output</i>	<i>Pass/Fail</i>
1: Main Menu					
1.1: - Rules					
1.1.1	Menu Bar: User wishes to view “Rules” of Zoltar game	User Input: Selects rules from the menu bar.	User is displayed the rules of the fortune teller game.		Pass
1.1.2	User chooses to exit rules	User Input: Selects “Close” button	User is returned to main menu	Returns to Main Menu	Pass
1.1.3		User closes rules from title bar	User is returned to main menu	x=close. Returns to Main Menu	Pass
1.2: - Register					
1.2.1		User Input: Clicks “Register” button	User is displayed registration form		Pass
1.2.2	User chooses to exit registration	User Input: Selects “Close” button	User is returned to main menu	Returned to main menu	Pass
1.2.3		User closes registration from title bar	User is returned to main menu	x=Close. Returns to Main Menu	Pass
1.3: - Login					
1.3.1		User Input: Clicks “Login” button	User is displayed login form		Pass
1.3.2	User chooses	User Input:	User is returned	Returned to main	Button

	to exit login	Selects “Cancel” button	to main menu	menu	displays Cancel not Close
1.3.3		User closes login from title bar	User is returned to main menu	x=close, returns to Main Menu	Pass
1.4: - Play as Guest					
1.4.1		User Input: Selects “Play as Guest” button	Fortune menu is displayed. Users are prompted to click another button from the selection		Pass
1.4.1	User chooses to exit fortune	User closes fortune and fortune menu from title bar	User is returned to main menu	X = close, returns to Main Menu	Pass
1.5: - Exit Program					
1.5.1		User input: Selects “Exit” from the menu bar.	Application exits	exits	pass
1.5.2		User closes program from title bar	Application exits	Exits	Pass
2: Fortune Menu					
2.1	Option 1 - Love	User Input: Clicks “Love” button	User is displayed a fortune about love and prompted to choose another fortune.		Pass
2.1.1	User chooses another fortune	User Input: Clicks “New Fortune” and selects another fortune category	Fortune menu is displayed. User is prompted to click another button from the selection.		Pass
2.1.2	User chooses	User closes	Main menu is	Returns to Main	Pass

	to exit	fortune menu from title bar	displayed.	Menu	
2.2	Option 2 - Career	User Input: Clicks “Career” button	User is displayed a fortune for career. Users are prompted to choose another fortune.		Pass
2.2.1	User chooses another fortune	User Input: Clicks “New Fortune” and selects another fortune category	Fortune menu is displayed. User is prompted to click another button from the selection.	Fortune Menu Displays	Pass
2.2.2	User chooses to exit	User closes fortune menu from title bar	Main menu displayed.	Return to Main Menu	Pass
2.3	Option 3 - Health	User Input: Clicks “Health” button	Fortune menu is displayed. User is prompted to click another button from the selection.		Pass
2.3.1	User chooses another fortune	User Input: Clicks “New Fortune” and selects another fortune category	User is displayed the fortune menu and prompted to click another button for selection.	Fortune Menu Displays	Pass
2.3.2	User chooses to exit	User closes fortune menu from title bar	Main menu displayed.	Main Menu displays	Pass
2.4	Option 4: General Life	User Input: Clicks “General” button	The user is displayed a general life fortune. The user is prompted to choose another fortune.		Pass

2.4.1	User chooses another fortune	User Input: Clicks “New Fortune” and selects another fortune category	Fortune menu is displayed. User is prompted to click another button from the selection.		Pass
2.4.2	User chooses to exit	User closes fortune menu from title bar	Main menu displayed.	Main Menu displays	Pass
2.5	Option 5: Random	User Input: Clicks “Random” button	User is shown a fortune from a random category. The user is prompted to choose another fortune.		Pass
2.5.1	User chooses another random fortune	User Input: Clicks “New Fortune” and selects “Random” button	User is shown another fortune from a random category. The user is prompted to choose another fortune.		Pass
2.5.3	User chooses to exit	User closes fortune menu from title bar	User is displayed the main menu and prompted to click another button for selection.	No message prompt to select. Main Menu loaded.	

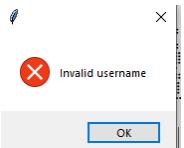
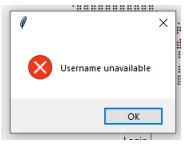
3: User Menu

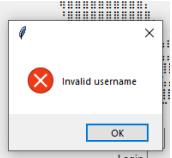
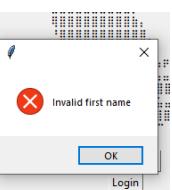
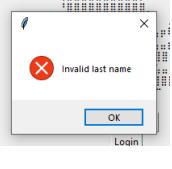
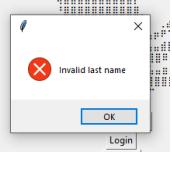
3.1	User selects fortune	User Input: Clicks “Get a Fortune” button	User is displayed the fortune menu and prompted to click another button for selection.		pass
3.1.2		User Input: Clicks any button	User is shown a fortune from the chosen category. User is prompted to choose another fortune or save fortune.		pass

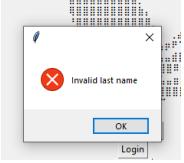
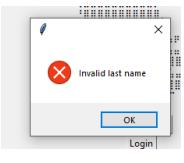
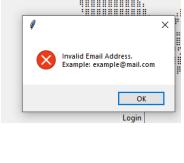
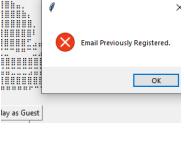
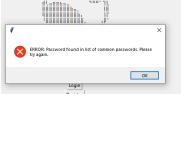
3.1.3		User Input: Clicks “Save Fortune” button	Fortune saved.		pass
3.1.4	User chooses to exit	User closes fortune screen and fortune menu from title bar	User menu is displayed and user is prompted to make another selection.		pass
3.2		User Input: Clicks “View Past Fortunes” button	The user is shown a list of saved fortunes.		pass

4: Input Validation

Validate inputs the user enters for login/registration page.

4.1: Invalid Input					
4.1.1	User attempts to register account	User Input: Selects “Register” button	Shows Register Form		Pass
Username					
4.1.1.1 Empty Input / Null		User Input:	Error Displayed: “Invalid Username” User directed back to registration screen.		pass
4.1.1.2 Already Registered		User Input: abcdef	Error Displayed: “Username Unavailable” User directed back to registration screen.		pass
4.1.1.3 Outside of Acceptable Range		User Input: qwertyuiopasdfghjklzxcvbnm	Error Displayed: “Invalid Username” User directed back to registration screen.		Fail allowed username to be created

4.1.1.4 Special char		User Input: #	Error Displayed: “Invalid Username” User directed back to registration screen.		pass
First Name					
4.1.1.5 Empty Input / Null		User Input:	Error Displayed: “Invalid First Name” User directed back to registration screen.		pass
4.1.1.6 Outside of Acceptable Range		User Input: qwerrtyuiopasdfghjklzxcvbnm	Error Displayed: “Invalid First Name” User directed back to registration screen.		pass
4.1.1.7 Special char		User Input: #	Error Displayed: “Invalid First Name” User directed back to registration screen.		pass
4.1.1.8		User Input: 3	Error Displayed: “Invalid First Name” User directed back to registration screen.		pass
Last Name					
4.1.1.5 Empty Input / Null		User Input:	Error Displayed: “Invalid Last Name” User directed back to registration screen.		pass
4.1.1.6 Outside of Acceptable Range		User Input: qwertyuiopasdfghjklzxcvbnm	Error Displayed: “Invalid Last Name” User directed back to registration		pass

			screen.		
4.1.1.7 Special char		User Input: #	Error Displayed: “Invalid Last Name” User directed back to registration screen.		pass
4.1.1.8		User Input: 3	Error Displayed: “Invalid Last Name” User directed back to registration screen.		pass
Email					
4.1.1.9 Empty Input / Null		User Input:	Error Displayed: “Invalid Email Address” User directed back to registration screen.		pass
4.1.1.10 Format		User Input: test.t	Error Displayed: “Invalid Email Address” User directed back to registration screen.		pass
4.1.1.11 Already Registered		User Input: test@test.com	Error Displayed: “Email Previously Registered” User directed back to registration screen.		pass
Password					
4.1.1.12 Common Password		User Input: password	Error Displayed: “Password found in list of common passwords ” User directed back to registration screen.		pass

4.1.1.13 Outside of Acceptable Range		User Input: qwe	Error Displayed: "Password must be greater than 12 characters " User directed back to registration screen.		pas
4.1.1.14 Cases		User Input: m7sbtg5h58zt	Error Displayed: "Password must contain at least one uppercase character " User directed back to registration screen.		pass
4.1.1.15		User Input: M7SBTG5H58Z T	Error Displayed: "Password must contain at least one lowercase character " User directed back to registration screen.		pass
4.1.1.16 Special char		User Input: mSbtgCNsHZTp	Error Displayed: "Password must contain at least one numeric character " User directed back to registration screen.		pass
4.1.1.17		User Input: m7SbtgCNs5H5 8ZT	Error Displayed: "Password must contain at least one special character " User directed back to the registration screen.		pass

Tester: Valerie Rudich

Test Date: December 12, 2023

Description: Test all the actions a user could perform using the Fortune Teller GUI.

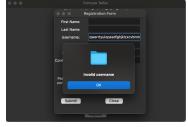
<i>Test Case</i>	<i>Description of Test</i>	<i>Input</i>	<i>Expected Output</i>	<i>Actual Output</i>	<i>Pass/Fail</i>
1: Main Menu					
1.1: - Rules					
1.1.1	Menu Bar: User wishes to view “Rules” of Zoltar game	User Input: Selects rules from the menu bar.	User is displayed the rules of the fortune teller game.		PASS
1.1.2	User chooses to exit rules	User Input: Selects “Close” button	User is returned to main menu	Returns to main menu	PASS
1.1.3		User closes rules from title bar	User is returned to main menu	Returns to main menu	PASS
1.2: - Register					
1.2.1		User Input: Clicks “Register” button	User is displayed registration form		PASS
1.2.2	User chooses to exit registration	User Input: Selects “Close” button	User is returned to main menu	Returns to main menu	PASS
1.2.3		User closes registration from title bar	User is returned to main menu	Returns to main menu	PASS
1.3: - Login					
1.3.1		User Input: Clicks “Login” button	User is displayed login form		PASS

1.3.2	User chooses to exit login	User Input: Selects “Cancel” button	User is returned to main menu	Returns to main menu	PASS
1.3.3		User closes login from title bar	User is returned to main menu	Returns to main menu	PASS
1.4: - Play as Guest					
1.4.1		User Input: Selects “Play as Guest” button	Fortune menu is displayed. Users are prompted to click another button from the selection		PASS
1.4.1	User chooses to exit fortune	User closes fortune and fortune menu from title bar	User is returned to main menu	Returns to main menu	PASS
1.5: - Exit Program					
1.5.1		User input: Selects “Exit” from the menu bar.	Application exits	App exits	PASS
1.5.2		User closes program from title bar	Application exits	App exits	PASS
2: Fortune Menu					
2.1	Option 1 - Love	User Input: Clicks “Love” button	User is displayed a fortune about love and prompted to choose another fortune.		PASS
2.1.1	User chooses another fortune	User Input: Clicks “New Fortune” and selects another fortune	Fortune menu is displayed. User is prompted to click another		PASS

		category	button from the selection.		
2.1.2	User chooses to exit	User closes fortune menu from title bar	Main menu is displayed.	Returns to main menu	PASS
2.2	Option 2 - Career	User Input: Clicks “Career” button	User is displayed a fortune for career. Users are prompted to choose another fortune.		PASS
2.2.1	User chooses another fortune	User Input: Clicks “New Fortune” and selects another fortune category	Fortune menu is displayed. User is prompted to click another button from the selection.		PASS
2.2.2	User chooses to exit	User closes fortune menu from title bar	Main menu displayed.	Returns to main menu	PASS
2.3	Option 3 - Health	User Input: Clicks “Health” button	User is displayed a fortune for health. Users are prompted to choose another fortune.		PASS
2.3.1	User chooses another fortune	User Input: Clicks “New Fortune” and selects another fortune category	Fortune menu is displayed. User is prompted to click another button from the selection.		PASS
2.3.2	User chooses to exit	User closes fortune menu from title bar	Main menu displayed.	Returns to main menu	PASS

2.4	Option 4: General Life	User Input: Clicks “General” button	User is displayed a fortune for general life. Users are prompted to choose another fortune.		PASS
2.4.1	User chooses another fortune	User Input: Clicks “New Fortune” and selects another fortune category	Fortune menu is displayed. User is prompted to click another button from the selection.		PASS
2.4.2	User chooses to exit	User closes fortune menu from title bar	Main menu displayed.	Returns to main menu	PASS
2.5	Option 5: Random	User Input: Clicks “Random” button	User is displayed a random fortune. Users are prompted to choose another fortune.		PASS
2.5.1	User chooses another random fortune	User Input: Clicks “New Fortune” and selects “Random” button	User is shown another fortune from a random category. The user is prompted to choose another fortune.		PASS
2.5.3	User chooses to exit	User closes fortune menu from title bar	User is displayed the main menu and prompted to click another button for selection.	Returns to main menu	PASS
3: User Menu					

3.1	User selects fortune	User Input: Clicks “Get a Fortune” button	User is displayed the fortune menu and prompted to click another button for selection.		PASS
3.1.2		User Input: Clicks any button	User is shown a fortune from the chosen category. User is prompted to choose another fortune or save fortune.		PASS
3.1.3		User Input: Clicks “Save Fortune” button	Fortune saved. Also asked to confirm save		PASS
3.1.4	User chooses to exit	User closes fortune screen and fortune menu from title bar	User menu is displayed and user is prompted to make another selection.	Returned to user menu	PASS
3.2		User Input: Clicks “View Past Fortunes” button	The user is shown a list of saved fortunes.		PASS
3.3 - Sign Out		User Input: Clicks “Sign Out” from menu bar	User is returned to main menu.		PASS
4: Input Validation					
Validate inputs the user enters for login/registration page.					
4.1: Invalid Input					
4.1.1	User attempts to register account	User Input: Selects “Register” button			

Username					
4.1.1.1 Empty Input / Null		User Input:	Error Displayed: "Invalid Username" User directed back to registration screen.		PASS Returned to registration window
4.1.1.2 Already Registered		User Input: test	Error Displayed: "Username Unavailable" User directed back to registration screen.		PASS Returned to registration window
4.1.1.3 Outside of Acceptable Range		User Input: qwerrtyuiopasdfghjklzxcvbnm	Error Displayed: "Invalid Username" User directed back to registration screen.		PASS Returned to registration window
4.1.1.4 Special char		User Input: #	Error Displayed: "Invalid Username" User directed back to registration screen.		PASS Returned to registration window
First Name					
4.1.1.5 Empty Input / Null		User Input:	Error Displayed: "Invalid First Name" User directed back to registration screen.		PASS Returned to registration window

4.1.1.6 Outside of Acceptable Range		User Input: qwertyuiopasd fghjklzxcvbnm	Error Displayed: “Invalid First Name” User directed back to registration screen.		PASS Returned to registration window
4.1.1.7 Special char		User Input: #	Error Displayed: “Invalid First Name” User directed back to registration screen.		PASS Returned to registration window
4.1.1.8		User Input: 3	Error Displayed: “Invalid First Name” User directed back to registration screen.		PASS Returned to registration window
Last Name					
4.1.1.5 Empty Input / Null		User Input:	Error Displayed: “Invalid Last Name” User directed back to registration screen.		PASS Returned to registration window
4.1.1.6 Outside of Acceptable Range		User Input: qwertyuiopasd fghjklzxcvbnm	Error Displayed: “Invalid Last Name” User directed back to registration screen.		PASS Returned to registration window
4.1.1.7 Special char		User Input: #	Error Displayed: “Invalid Last Name” User directed back to registration screen.		PASS Returned to registration window

4.1.1.8		User Input: 3	Error Displayed: “Invalid Last Name” User directed back to registration screen.		PASS
Email					
4.1.1.9 Empty Input / Null		User Input:	Error Displayed: “Invalid Email Address” User directed back to registration screen.		PASS
4.1.1.10 Format		User Input: test.t	Error Displayed: “Invalid Email Address” User directed back to registration screen.		PASS
4.1.1.11 Already Registered		User Input: test@test.com	Error Displayed: “Email Previously Registered” User directed back to registration screen.		PASS
Password					
4.1.1.12 Common Password		User Input: password	Error Displayed: “Password found in list of common passwords.” User directed back to registration screen.		PASS

4.1.1.13 Outside of Acceptable Range		User Input: qwe	Error Displayed: “Password must be greater than 12 characters.” User directed back to registration screen.		Returned to registration window	FAIL - wrong error displayed. “Error: Password found in list of common passwords. Please try again.”
4.1.1.14 Cases		User Input: m7sbtg5h58zt	Error Displayed: “Password must contain at least one uppercase character.” User directed back to registration screen.		Returned to registration window	PASS
4.1.1.15		User Input: M7SBTG5H5 8ZT	Error Displayed: “Password must contain at least one lowercase character.” User directed back to registration screen.		Returned to registration window	PASS
4.1.1.16 Special char		User Input: mSbtgCNsHZ Tp	Error Displayed: “Password must contain at least one numeric character.” User directed back to registration screen.		Returned to registration window	PASS

4.1.1.17		User Input: m7SbtgCNs5H 58ZT	Error Displayed: “Password must contain at least one special character.” User directed back to the registration screen.		PASS Returned to registration window
4.1.2	User login (unsuccessful)	User Input: Selects “Login” button Username: # Password: s43crytfu8	Notified of unsuccessful login attempt. User is directed back to login screen.		PASS Returned to login window
4.2 Valid Input					
4.2.1	User registers account	User Input: First Name: Val Last Name: Rud Username: vrud Email: vrud@test.com Password: 7o2_]6o69[V @	Notified of successful registration. Account registered in database. User is directed to the main menu.		PASS Returned to main menu
4.2.2	User login	User Input: Username: vrud Password: 7o2_]6o69[V @	Notified of successful login. User is directed to user menu	 	PASS
5. Random Generator Tests to ensure that the random feature can read all txt files and choose a random fortune					
5.1 Reading .txt files					

5.1.1	The random generator can read from the love.txt file to provide a fortune	User prompts for the love fortune	A love fortune is displayed.		PASS
5.1.2	The random generator can read from the career.txt file and provide a fortune	User prompts for a career fortune	A career fortune is displayed.		PASS
5.1.3	The random generator can read from the health.txt file and provide a fortune.	User prompts for a health fortune	A health fortune is displayed.		PASS
5.1.4	The random generator can read from the general.txt file and provide a fortune	User prompts for a general fortune	A general fortune is displayed.		PASS
5.1.5	The random generator can read from all .txt files and provide the user with a random fortune from any category.	The user prompts for a "Random" fortune	A random fortune from any of the 4 categories (love, career, health, general) is displayed.		PASS

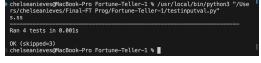
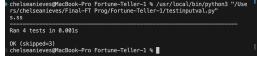
PyUnit Test Cases

Tester: Chelsea Nieves

Test Date: December 11, 2023

Description: Tests input validation methods for login and registration input fields using PyUnit.

PyUnit Test Cases

Test Case	Description of Test	Input	Expected Output	Actual Output	Pass/Fail
4.1 First Name/Last Name					
4.1.1 Assert False	Tests input validation method for first and last name input fields	Tests that invalid inputs supplied to database_helper.validate_name(name) method return False as expected	OK	 Ran 4 tests in 0.001s OK (skipped=3)	Pass
4.1.1.2 Blank input	First/Last name fields cannot be left blank	''			
4.1.1.3 Outside of Acceptable Range	Name input cannot exceed 20 characters in length	'TestInputisTooLongTest'			
4.1.1.4 Special char	Name cannot contain a special character	'te\$t'			
4.1.1.5 Numerical Input	Name cannot contain a number	't3st'			
4.1.2 Assert True	Tests input validation method for first and last name input fields	Tests that valid inputs supplied to database_helper.validate_name(name) method return True as expected	OK	 Ran 4 tests in 0.001s OK (skipped=3)	Pass
4.1.2.1 Valid Username	Valid first name or last name	'test'			
4.2 Email					
4.2.1 Assert False	Tests input validation method for email input	Tests that invalid inputs supplied to database_helper.validate_email(email) method return	OK	 Ran 4 tests in 0.001s OK (skipped=3)	Pass

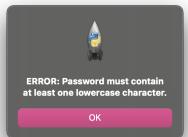
	field	False as expected		OK (skipped=3)	
4.2.1.1 Blank input	Email field cannot be left blank	''			
4.2.1.2 Pattern Match	Input does not match expected pattern	'test@test', 'test.com'			
4.2.2 Assert True	Tests input validation method for email input field	Tests that valid inputs supplied to database_helper.validate_email(email) method return True as expected	OK	Ran 4 tests in 0.001s OK (skipped=3)	Pass
4.2.2.1 Valid Input	Valid email	'test@test.com'			

4.3 Username

4.3.1 Assert False	Tests input validation method for username input field	Tests that invalid inputs supplied to database_helper.validate_username(uname) method return False as expected	OK	Ran 4 tests in 0.001s OK (skipped=3)	Pass
4.3.1.1 Blank input	Username field cannot be left blank	''			
4.3.1.2 Special char	Username cannot contain special char	'te\$t'			
4.3.1.2 Outside of Acceptable Range	Name input cannot exceed 20 characters in length	'TestInputisTooLongTest'			
4.3.2 Assert True	Tests input validation method for username input field	Tests that valid inputs supplied to database_helper.validate_username(uname) method return True as expected	OK	Ran 4 tests in 0.001s OK (skipped=3)	Pass
4.3.2.1 Valid inputs	Valid username	'Test1', 'test'			

4.4 Password // valid_pass = '1qaz!QAZ2wsx@WSX'

4.4.1 Assert False	Tests input validation method for password input fields	Tests that invalid inputs supplied to database_helper.validate_pass(pass1, pass2) method return False as expected	OK	 Ran 4 tests in 34.963s OK (skipped=3)	Pass
4.4.1.1 Blank inputs	Tests both password fields for blank input	('', valid_pass), (valid_pass, '')		 ERROR: Password cannot be blank. OK	
4.4.1.2 Password found in list	Password in list of common_pass.txt	('test', 'test')		 ERROR: Password found in list of common passwords. Please try again. OK	
4.4.1.4 Missing number char	Password must contain 1 number	('QAZ!qazwsx@WSX', 'QAZ!qazwsx@WSX')		 ERROR: Password must contain at least one numerical character. OK	
4.4.1.5 Missing special char	Password must contain 1 special character	('1qazQAZ2wsxwsx', '1qazqaz2WSXwsx')		 ERROR: Password must contain at least one special character. OK	
4.4.1.6 Missing uppercase char	Password must contain 1 uppercase letter	('1qaz!qaz2wsx@wsx', '1qaz!qaz2wsx@wsx')		 ERROR: Password must contain at least one uppercase character. OK	

4.4.1.7 Missing lowercase char	Password must contain 1 lowercase letter	('1QAZ!QAZ2WSX@WSX', '1QAZ!QAZ2WSX@WSX')			
4.4.1.8 Passwords do not match	Password 1 arg must match confirmation password 2 arg.	(valid_pass, '@WSXxsw2!QAZzaql')			
4.4.2 Assert True	Tests input validation method for password input fields	Tests that valid inputs supplied to database_helper.validate_pass(pass1, pass2) method return True as expected	OK	Ran 4 tests in 0.001s OK (skipped=3)	Pass
4.4.2.1 Valid password	Acceptable password input	(valid_pass, valid_pass)			