



CS 1632 Software Quality Assurance

Deliverable 1

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Team Name: THE Legion

Introduction

a. Division of Work

Describe how you divided the work between partners. If you worked alone, please say so.

We both created test cases and experimented to find bugs. Henry did the traceability matrix and Mark handled the bugs. We then went through our work together to make sure everything looked good before submitting. We both divided up writing the test cases equally and then went through each case at a time checking to make sure it had all correct information.

b. One Base Case

Provide the IDENTIFIER of a base case that you tested. Explain why this is a base case.

TEST-COMMAND-PROMPT is a base case because it tests the basic functionality of the first requirement. It runs the program and selects option 1 from the command menu. It is successful if the program shows the options upon launch, and if entering "1" successfully selects that option and shows the next step.

c. One Edge Case

Provide the IDENTIFIER of an edge case that you tested. Explain why this is an edge case.

TEST-INVALID-ID is an edge case because it attempts to rent a cat with an ID outside of the ones given.

d. One Corner Case

Provide the IDENTIFIER of a corner case that you tested. Explain why this is a corner case.

TEST-INVALID-RENT-RETURN is a corner case because it tests renting and returning an invalid cat ID

2.Traceability Matrix

Complete the traceability matrix below. An "X" mark in a cell means that the test on the row verifies the requirement on the column. Note that "TEST-CASE-1" and "TEST-CASE-2" are just example test case identifiers. Please replace with your own test cases.

| | FUN-COMMAND-PROMPT | FUN-1-LIST-COMMAND | FUN-2-RENT-COMMAND | FUN-3-RETURN-COMMAND | FUN-4-RENAME-COMMAND | FUN-5-QUIT-COMMAND | FUN-INVALID-CAT-ID |
|-------------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--------------------|--------------------|
| TEST-COMMAND-PROMPT | X | | | | | | |
| TEST-LIST-COMMAND | X | X | | | | | |
| TEST-RENT-COMMAND | X | | X | | | | |
| TEST-RETURN-COMMAND | X | | | X | | | |
| TEST-RENAME-COMMAND | X | | | | X | | |
| TEST-QUIT-COMMAND | X | | | | | X | |
| TEST-INVALID-ID | X | | X | | | | X |
| TEST-INVALIDRENT-RETURN | X | | X | X | | | X |
| TEST-RENT-RENAME | X | | X | | X | | |

3.Test Cases **TEST CASE 1**

IDENTIFIER: TEST-COMMAND-PROMPT

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory.

TEST CASE: Attempts to run the program and output a display of 5 commands.

EXECUTION STEPS:

1. Enter the following command line argument: `java -jar rentacat.jar` **POSTCONDITIONS:**
The output displays 5 command options: 1, 2, 3, 4, and 5.

TEST CASE 2

IDENTIFIER: TEST-LIST-COMMAND

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory. **TEST**

CASE: Attempts to run the program and list the cats available to rent.

EXECUTION STEPS:

1. Enter the following command line argument: `java -jar rentacat.jar`
2. Type "1[Enter]".

POSTCONDITIONS: The output displays the 3 cats available: "Jennyanydots", "Old Deuteronomy", and "Mistoffelees", followed by the 5 numerical commands prompt.

TEST CASE 3

IDENTIFIER: TEST-RENT-COMMAND

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory. **TEST**

CASE: Attempts to run the program and rent an available cat.

EXECUTION STEPS:

1. Enter the following command line argument: `java -jar rentacat.jar`
2. Type "2[Enter]".
3. Type "1[Enter]".

POSTCONDITIONS: The output displays Jennyanydots has been rented followed by the 5 numerical commands prompt.

TEST CASE 4

IDENTIFIER: TEST-RETURN-COMMAND

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory. **TEST**

CASE: Attempts to run the program and return a cat that is not rented out.

EXECUTION STEPS:

1. Enter the following command line argument: `java -jar rentacat.jar`
2. Type "3[Enter]".
3. Type "1[Enter]".

POSTCONDITIONS: The output displays Jennyanydots is already here followed by the 5 numerical commands prompt.

TEST CASE 5

IDENTIFIER: TEST-RENAME-COMMAND

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory.

TEST CASE: Attempts to run the program and rename a cat that is available for rent.

EXECUTION STEPS:

1. Enter the following command line argument: java -jar rentacat.jar
2. Type "4[Enter]".
3. Type "1[Enter]".
4. Type "NewCatName".

POSTCONDITIONS: The output greets NewCatName followed by the 5 numerical commands prompt.

TEST CASE 6

IDENTIFIER: TEST-QUIT-COMMAND

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory. **TEST**

CASE: Attempts to run the program and gracefully exit the program.

EXECUTION STEPS:

1. Enter the following command line argument: java -jar rentacat.jar
2. Type "5[Enter]".

POSTCONDITIONS: The output displays that it is closing up shop for the day.

TEST CASE 7

IDENTIFIER: TEST-INVALID-ID

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory. **TEST**

CASE: Attempts to run the program and rent a cat with an invalid cat ID.

EXECUTION STEPS:

1. Enter the following command line argument: java -jar rentacat.jar
2. Type "2[Enter]".
3. Type "4[Enter]".

POSTCONDITIONS: The output displays that the cat ID is invalid.

TEST CASE 8

IDENTIFIER: TEST-INVALID-RENT-RETURN

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory.

TEST CASE: Attempts to run the program, rent a cat with an invalid ID and return a cat with an invalid ID

EXECUTION STEPS:

1. Enter the following command line argument: java -jar rentacat.jar
2. Type "2 [Enter]".
3. Type "4 [Enter]".
4. Type "3 [Enter]".
5. Type "4 [Enter]".

POSTCONDITIONS: The output displays the options, asks for the cat to be rented, confirms that the cat has been rented, provides the commands prompt, prompts for return, then states that the cat ID is invalid.

TEST CASE 9

IDENTIFIER: TEST-RENT-RENAME

PRECONDITIONS: Java Version is JRE 11 and rentacat.jar is in the current directory.

TEST CASE: Attempts to run the program, rent a cat, and rename it.

EXECUTION STEPS:

1. Enter the following command line argument: `java -jar rentacat.jar`
2. Type "2 [Enter]".
3. Type "3 [Enter]". 4. Type "4 [Enter]".
5. Type "3 [Enter]".
6. Type "Test [Enter]".

POSTCONDITIONS: The output displays the options, asks which cat to rent, states the cat is rented, options, asks for cat to rename, asks for new name, states cat name is not there, then displays options again.

3. Link to GitHub issues

Please paste here the URL to your GitHub classroom repository issues page where I can find the three closed issues.

Link: <https://github.com/CS1632-Spring2024/deliverable-1-test-plans-the-legion/issues>