System Test Plan

Test Data:

Sample Room File: text_testRoomTwo.txt

ROOM_ID,LENGTH,WIDTH

Home Office,12,10

Library,14,12

Game Room,16,18

Study,13,11

Home Gym,20,15

Media Room,18,20

Den,14,13

Attic,12,10

Sample Cleaning Event File: text_testCETwo.txt

TIMESTAMP,ROOM_ID,PERCENT_CLEANED

06/01/2021 13:39:01,Home Office,85

05/31/2021 09:27:45,Library,92

05/30/2021 10:14:41,Media Room,78

05/28/2021 17:22:52,Study,80

05/21/2021 09:16:33,Home Gym,89

05/23/2021 18:22:11,Media Room,95

05/23/2021 11:51:19,Den,82

05/17/2021 04:37:31,Attic,93

06/02/2021 08:45:12,Home Office,88

06/02/2021 15:20:30,Library,94

06/03/2021 11:10:50,Game Room,85

06/04/2021 14:45:29,Study,88

06/05/2021 09:30:17,Home Gym,91

06/05/2021 17:15:44,Media Room,96

06/06/2021 12:52:18,Den,84

06/07/2021 10:26:55,Attic,92

06/08/2021 14:39:21,Media Room,90

06/09/2021 13:55:37,Library,96

06/10/2021 10:12:48,Game Room,88

06/11/2021 17:30:15,Study,92

06/12/2021 14:20:22,Home Gym,94

06/13/2021 11:45:11,Media Room,97

06/14/2021 09:57:28,Den,87

06/15/2021 07:14:33,Den,93

Test ID	Description	Expected Results	Actual Results
Test #1 **testID: testRoomReportValidFunctionality** **Strategy: Equivalence Class Test (U3)**	**Preconditions:** The program has loaded and the user has specified and loaded input files input/text_testRoomTwo.txt and input/text_testCETwo.txt correctly for both room information and cleaning event logs **Steps:** 1. **Enter the Room List File Name:** input/text_testRoomTwo.txt 2. **Enter the Cleaning Events Log File Name:** input/text_testCETwo.txt 3. Given the four options for the program, select the action to take when prompted 4. **Select the action view a report of room cleanings: Task:** 2 5. Check Expected Results	A report should be printed with the following output: Room Report [Attic was cleaned on [06/07/2021 10:26:55 05/17/2021 04:37:31] Den was cleaned on [06/15/2021 07:14:33 06/14/2021 09:57:28 06/06/2021 12:52:18 05/23/2021 11:51:19] Game Room was cleaned on [06/10/2021 10:12:48 06/03/2021 11:10:50] Home Gym was cleaned on [	The output was as followed: Room Report [Attic was cleaned on [06/07/2021 10:26:55 05/17/2021 04:37:31] Den was cleaned on [06/15/2021 07:14:33 06/14/2021 09:57:28 06/06/2021 12:52:18 05/23/2021 11:51:19] Game Room was cleaned on [06/10/2021 10:12:48 06/03/2021 11:10:50] Home Gym was cleaned on [06/12/2021 14:20:22

		06/12/2021 14:20:22	06/05/2021 09:30:17
		06/05/2021 09:30:17	05/21/2021 09:16:33
		05/21/2021 09:16:33	]
		]	Home Office was cleaned on [
		Home Office was cleaned on [	06/02/2021 08:45:12
		06/02/2021 08:45:12	06/01/2021 13:39:01
		06/01/2021 13:39:01	]
		]	Library was cleaned on [
		Library was cleaned on [	06/09/2021 13:55:37
		06/09/2021 13:55:37	06/02/2021 15:20:30
		06/02/2021 15:20:30	05/31/2021 09:27:45
		05/31/2021 09:27:45	]
		]	Media Room was cleaned on [
		Media Room was cleaned on [	06/13/2021 11:45:11
		06/13/2021 11:45:11	06/08/2021 14:39:21
		06/08/2021 14:39:21	06/05/2021 17:15:44
		06/05/2021 17:15:44	05/30/2021 10:14:41
		05/30/2021 10:14:41	05/23/2021 18:22:11
		05/23/2021 18:22:11	]
		]	Study was cleaned on [

		Study was cleaned on [	06/11/2021 17:30:15
		06/11/2021 17:30:15	06/04/2021 14:45:29
		06/04/2021 14:45:29	05/28/2021 17:22:52
		05/28/2021 17:22:52	]
		]	]
		]	
Test #2 **testID: testFrequently CleanedBoundary** **Strategy: Boundary Value Test (UC 2)**	**Preconditions:** Test #1 Has Run **Steps:** 1. Select the action get the most frequently cleaned rooms: **Task:** 1 2. **Enter the number 0** for the number of rooms to be reported	A report should be printed with the following output: Number of rooms must be greater than 0.	Number of rooms must be greater than 0.

Test #3
 	
testID:
testFrequency
EquivalentClas
s
 	
Strategy:
Equivalence
Class (UC 2)
	Preconditions: Test #2 Has Run
	
	Steps:
	
	1. Select the action get the most frequently cleaned rooms: **Task:** 1
	2. **Enter the number 5** for the number of rooms to be reported
		A report should be printed with the following output:
		
		Frequency of Cleanings [
		
		  Media Room has been cleaned 5 times
		
		  Den has been cleaned 4 times
		
		  Home Gym has been cleaned 3 times
		
		  Library has been cleaned 3 times
		
		  Study has been cleaned 3 times
		
		]
			The report is as followed:
			
			Frequency of Cleanings [
			
			  Media Room has been cleaned 5 times
			
			  Den has been cleaned 4 times
			
			  Home Gym has been cleaned 3 times
			
			  Library has been cleaned 3 times
			
			  Study has been cleaned 3 times
			
			]

Test #4 **testID:** **estimateRemai** **ningValExcepti** **on**	**Preconditions:** Test #3 Has Run **Steps:** 1. Select the get vacuum bag life action: **Task:** 3	A report should be printed with the following output: "Date & time must be in the format: MM/DD/YYYY HH:MM:SS"	Date & time must be in the format: MM/DD/YYYY HH:MM:SS

Strategy: Test Exceptions (U4)	2. **Enter the date and time:** 05/09/2021 8:44:23		

Test #5
 	
testID:
checkRemaing
VaccumBagVali
d
 	
Strategy:
Equivalence
Class (U4)
	Preconditions: Test #4 Has Run
	
	Steps:
	
	  3. Select the get vacuum
	     bag life action: **Task:** 3
	  4. **Type the date and time:**
	     06/05/2021 17:00:00
		A report should be printed with the following output:
		
		Vacuum Bag Report (last replaced 06/05/2021 17:00:00) [
		
		  Bag is due for replacement in 2846 SQ FT
		
		]
			A printed output:
			
			Vacuum Bag Report (last replaced 06/05/2021 17:00:00) [
			
			  Bag is due for replacement in 2846 SQ FT
			
			]