BLACK BOX TEST PLAN

In this section, you must provide your black-box test plan with at least 5 black-box test cases.

Make sure:

- ✓ You describe how to setup the system to begin black-box testing
- ✓ Test IDs are uniquely identified and descriptive
- \checkmark Test descriptions are fully specified with complete inputs, specific values, and preconditions
 - $\circ\quad$ Be sure to provide $\underline{\mbox{SPECIFIC}}$ INPUTs and VALUEs so that your test cases are repeatable
- ✓ Expected results are fully specified with specific output values
- ✓ The test process is fully provided and clear. No modifications are needed.
- ✓ All tests cover scenarios based on the problem statement
- √ All tests cover unique scenarios for the system
- ✓ All strategies for black-box testing are demonstrated in the tests (ECP, BVA, DT)

The Human Resources Manager system manages employee information, given two input files. One file contains employee information while the other contains the employee's resume information. Once those two input files are provided, the program will then allow the user to create an organizational list of employees based on the given information, create an organizational profile of employees ordered by tier, remove an employee from the human resource system, or query for the number of employees in a department.

The test files sample.txt and sample-resume.txt will be provided for the following test cases.

The text file sample.txt contains the following content:

```
Sarah, Jones, R200581294
(
    John, Smith, R000634703
    Jane, Doe, R040123346
    (
        Thomas, Webb, R829476581
        (
        Jessica, Daniels, R228401745
        Kyle, DeMarcino, R123582991
        )
    )
    Suzanne, Meadows, R891429182
)
```

The text file sample-resume.txt contains the following content:

R123582991, 1, B R040123346, 18, B R891429182, 9, P R200581294, 7, N R000634703, 4, M R829476581, 8, A

(Note that the two test files were provided from the project 2 write-up)

The HumanResourcesManagerUI will be responsible for starting the Human Resources Manager program. The UI program will be loaded on the terminal. Once HumanResourcesManagerUI has started, the user should then be prompted to provide two input files: one that contain employee information and the other that contains resume information.

Test ID	Description	Expected Results	Actual Results
testLoadInput Files (ECP - loading two valid input files)	Preconditions: • HumanResourcesManager UI has started • The user is prompted to provide two input files • The text files sample.txt and sample-resume.txt have been created The user provides a file that contains employee information and another that contains the employee's resume information to the terminal. The user should then be prompted to either generate an organizational profile, remove an employee from the HR system, or query for the number of employees in a department.	On the terminal, the following options are displayed: Generate Organizational Profile (G), Remove an Employee from the HR System (R), or Quit the Program (Q)	The following options were displayed on the terminal: Generate Organizational Profile (G), Remove an Employee from the HR System (R), or Quit the Program (Q)
	1. On the command line, type "input/sample.txt" as the employee info file 2. Click enter 3. Type "input/sample- resume.txt" as the resume info file.		

	4. Click enter		
	Preconditions:	The organizational	The terminal
		profile is created and	displayed the
testGenerate0	HumanResourcesManager	displays the	following
rganizationalP	UI has started and is	following	information:
rofile	running • testLoadInputFiles has passed The user selects the option to	information through the terminal:	OrganizationalProfile[Sarah Jones John Smith
(ECP - generating an organizational profile of employees based on given input files)	generate an organizational profile of all employees by tier to see if the profile is displayed through the terminal. Steps: 1. On the command-line, type "G"	OrganizationalProfile[Sarah Jones John Smith Jane Doe Suzanne Meadows Thomas Webb Jessica Daniels Kyle DeMarcino]	Jane Doe Suzanne Meadows Thomas Webb Jessica Daniels Kyle DeMarcino] The terminal then displayed the same three options to choose from.
	2. Click enter	A massaga is	The message
testRemoveIn validEmployee (DT - removing an employee that doesn't exist in the HR system)	HumanResourcesManager UI has started and is running testLoadInputFiles and testGenerateOrganizational Profile have passed The user selects the option to remove an employee that is not in the HR system to see if the program displays a message indicating that the employee is not in the HR system.	A message is displayed on the terminal, stating "Employee was not found." The terminal displayed the same three options to choose from. When "G" is entered, the terminal displayed the same information: OrganizationalProfile[Sarah Jones	The message "Employee was not found." Was displayed on the terminal. The terminal displayed the same three options to choose from. When "G" was entered, the following information was displayed:
	Steps: 1. On the command-line, type "R" 2. Click enter 3. Type "John" as the first name and "Doe" as the second name, on the same line	John Smith Jane Doe Suzanne Meadows Thomas Webb Jessica Daniels Kyle DeMarcino	OrganizationalProfile[Sarah Jones John Smith Jane Doe Suzanne Meadows Thomas Webb Jessica Daniels Kyle DeMarcino

1			
	4. Click enter5. Check the results		
	6. Type "G"		
	7. Click enter		
	Preconditions:	The message "The	The message "The
		employee has been	employee has been
testRemoveE	HumanResourcesManager	removed from the	removed from the
mployee-	UI has started and is	HR system, and the	HR system, and the
NoInterim	running • testLoadInputFiles and	HR system is	HR system is
	testGenerateOrganizational	updated accordingly"	updated
	Profile have passed	is displayed.	accordingly" was
(BVA –	_		displayed.
removing an		The message "No	
employee that	The user selects the option to	interim supervisor"	The message "No
has no	remove the employee from the HR	is displayed.	interim supervisor"
employees	system that has no supervised	The organizational	was displayed.
currently	employees to see if the program	profile after	The organizational
supervised in	displays a message that states that	removing Suzanne	profile after
the same	there is no interim supervisor.	Meadows contains	removing Suzanne
department/u		the following	Meadows contained
nit)		information:	the following
_	Steps:	illioi illatioii.	_
		OrganizationalProfile[illioi illatioil.
		Sarah Jones	OrganizationalProfile[
		1	Sarah Jones
		Jessica Daniels	
	the last name, on the same		Jessica Daniels
	line		Kyle DeMarcino
			J
test()uitHuma		The message "The	The message "The
		_	<u> </u>
	 HumanResourcesManager 		
114601	UI has started and is		
(7.77	<u>-</u>		
	passeu 		
the program)			
	The user selects the option to quit	•	_
	the program to see if the program		
	closes.	opem	_
			con initiated.
testQuitHuma nResourcesMa nager (ECP - quitting the program)	 On the command-line, type "R" Click enter Type "Suzanne" as the first name and "Meadows" as the last name, on the same line Click enter Check the results Type "G" Click enter Click enter Preconditions: HumanResourcesManager UI has started and is running testLoadInputFiles has passed The user selects the option to quit the program to see if the program	Sarah Jones John Smith Jane Doe Thomas Webb	Sarah Jones John Smith Jane Doe Thomas Webb Jessica Daniels

Stange
Steps: 1. On the command-line, type "O"
2. Click enter

Document Revision History

Date	Author	Change Description
3-9-18	Jimmy Nguyen	 Updated BBTP test file description – provided citation for where the two test files were taken from Updated testLoadInputFiles, testGenerateOrganizationalProfile, testRemoveInvalidEmployee, and testQuitHumanResourcesManager Removed testQueryNumberOfEmployees Added testRemoveEmployee-NoInterim