**Islahuddin Arshad**

**Project 2 Part 2 (Human Resources Manager)**

**Black Box Test Plan**

The following files were used for the black box tests.

**Employee File (employee.txt):**

Sarah, Jones, R200581294

(

  John, Smith, R000634703

  Jane, Doe, R040123346

  (

     Thomas, Webb, R829476581

     (

        Jessica, Daniels, R228401745

        Kyle, DeMarcino, R123582991

     )

  )

  Suzanne, Meadows, R891429182

)

**Resume File (resume.txt):**

RESUME\_ID, YEARS\_OF\_SERVICE, HIGHEST\_DEGREE

R228401745, 1, M

R123582991, 1, B

R040123346, 18, B

R891429182, 9, P

R200581294, 7, N

R000634703, 4, M

R829476581, 8, A

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| **testStartManagerValidInput** | The user runs the program. The user is prompted to enter two files. The user enters the following files:  “employee.txt”  “resume.txt” | The user encounters the following prompt:  *“Please enter employee information and resume file paths\n*  *Employee information file path: ”*  The user enters the employee file filepath  The program asks for resume file path right after.  The user encounters the following prompt:  “*Employee resume filepath:* “  The user enters the resume file filepath  After getting user input files, the program outputs:  *“Success. What would you like to do?*  *Press 1 to generate Organizational Profile*  *Press 2 to remove a specified employee*  *Press ‘Q’/’q’ to quit”* | The user encounters the following prompt:  *“Please enter employee information and resume file paths\n*  *Employee information file path: ”*  The user enters the employee file filepath  The program asks for resume file path right after.  The user encounters the following prompt:  “*Employee resume filepath:* “  The user enters the resume file filepath  After getting user input files, the program outputs:  *“Success. What would you like to do?*  *Press 1 to generate Organizational Profile*  *Press 2 to remove a specified employee*  *Press ‘Q’/’q’ to quit”* |
| **testStartManagerInvalid** | **Precondition:**  The user runs the program. The user is prompted to enter two files. The user enters the following files:  “employeeDNE.txt”  “resumeDNE.txt” | The user encounters the following prompt:  *“Please enter employee information and resume file paths\n*  *Employee information file path: ”*  The user enters the employee file filepath  The program asks for resume file path right after.  The user encounters the following prompt:  “*Employee resume filepath:* “  The user enters the resume file filepath  After getting user input files, the program re-outputs:  *“Please enter employee information and resume file paths\n*  *Employee information file path: ”*  The user enters the employee file filepath  The program asks for resume file path right after.  The user encounters the following prompt:  “*Employee resume filepath:* “  The user enters the resume file filepath  (This is done until valid input filepaths are not inputted for both files). | The user encounters the following prompt:  *“Please enter employee information and resume file paths\n*  *Employee information file path: ”*  The user enters the employee file filepath  The program asks for resume file path right after.  The user encounters the following prompt:  “*Employee resume filepath:* “  The user enters the resume file filepath  After getting user input files, the program re-outputs:  *“Please enter employee information and resume file paths\n*  *Employee information file path: ”*  The user enters the employee file filepath  The program asks for resume file path right after.  The user encounters the following prompt:  “*Employee resume filepath:* “  The user enters the resume file filepath  (This is done until valid input filepaths are not inputted for both files). |
| **testOrganizationalProfile** | **Precondition:**  The valid input files, “employee.txt” and “resume.txt”, are presented to the program.  The user also enters “1” to generate the Organizational Profile | The program output is:  *“OrganizationalProfile[   Sarah Jones   John Smith   Jane Doe   Suzanne Meadows   Thomas Webb   Jessica Daniels   Kyle DeMarcino ]”*  The program terminates | The program output is:  *“OrganizationalProfile[   Sarah Jones   John Smith   Jane Doe   Suzanne Meadows   Thomas Webb   Jessica Daniels   Kyle DeMarcino ]”*  The program terminates |
| **testRemoveEmployee** | **Precondition:**  The program is restarted.  The valid input files, “employee.txt” and “resume.txt”, are presented to the program.  The user also enters “2” to remove a specified employee  The program prompts:  *“What is the first name of the employee”*  The user enters the first name  The program prompts:  *“What is the last name of the employee”*  The user enters the last name of the employee  In all, the user enters:  “Sarah Jones” | The program output is:  *“Success! Sarah Jones is removed.”*  The program then generates the operational profile.  *"OrganizationalProfile[    Jane Doe   John Smith  Thomas Webb    Suzanne Meadows   Jessica Daniels   Kyle DeMarcino ]”*  The program terminates | The program output is:  *“Success! Sarah Jones is removed.”*  The program then generates the operational profile.  *"OrganizationalProfile[    Jane Doe   John Smith  Thomas Webb    Suzanne Meadows   Jessica Daniels   Kyle DeMarcino ]”*  The program terminates |
| **testQuit** | **Precondition:**  The program is restarted.  The valid input files, “employee.txt” and “resume.txt”, are presented to the program.  The user also enters ‘Q’ or ‘q’ to quit. | The program terminates. | The program terminates. |
| **testRemoveLeafEmployee** | **Precondition:**  The program is restarted.  The valid input files, “employee.txt” and “resume.txt”, are presented to the program.  The user also enters “2” to remove a specified employee  The program prompts:  *“What is the first name of the employee”*  The user enters the first name  The program prompts:  *“What is the last name of the employee”*  The user enters the last name of the employee  In all, the user enters:  “Kyle DeMarcino” | The program output is:  *“Success! Kyle DeMarcino is removed.”*  The program then generates the operational profile.  *"OrganizationalProfile[    Jane Doe   John Smith  Thomas Webb    Suzanne Meadows   Jessica Daniels ]”*  The program terminates | The program output is:  *“Success! Kyle DeMarcino is removed.”*  The program then generates the operational profile.  *"OrganizationalProfile[    Jane Doe   John Smith  Thomas Webb    Suzanne Meadows   Jessica Daniels ]”*  The program terminates |
| **testEmployeeDoesNotExist** | **Precondition:**  The program is restarted  The valid input files, “employee.txt” and “resume.txt”, are presented to the program.  The user also enters “2” to remove a specified employee  The program prompts:  *“What is the first name of the employee”*  The user enters the first name  The program prompts:  *“What is the last name of the employee”*  The user enters the last name of the employee  In all, the user enters:  “Nobody nobody” | The program output is:  *“Employee was not found”*  The program outputs:  *“What is first name of the employee”*  The user is then expected to input the first name of the employee  The program then outputs:  *“What is the last name of the employee”*  The use is then expected to input the last name of the employee | The program output is:  *“Employee was not found”*  The program then outputs:  *“What is first name of the employee”*  The user is then expected to input the first name of the employee  The program then outputs:  *“What is the last name of the employee”*  The use is then expected to input the last name of the employee |