

1. Test Cases developed for testing the functions

Test Case	Test Data	Expected Result	Test Result	Pass/Fail
Test Case 1: addJob with valid job details.	job1: ("12345AAA@", "Java Developer", "ABC Corp", "Melbourne, Vic, Australia", "2023-06-01", "Senior", "Full-time", ["Java", "Spring"], 120000, "Job Description") job2: ("23451BBB#", "Python Developer", "XYZ Inc", "Sydney, NSW, Australia", "2023-07-01", "Junior", "Part-time", ["Python"], 60000, "Job Description") job3: ("34512CCC%", "C# Developer", "PQR Limited", "Canberra, ACT, Australia", "2023-08-01", "Medium", "Internship", ["C#", "ASP.NET", "MVC"], 70000, "Job Description")	The function should return true and the job information should be added to the TXT file.	True for all three jobs.	Pass
Test Case 2: addJob with invalid job type for Senior experience level.	job1: ("12345AAA_", "Java Developer", "ABC Corp", "Melbourne, Vic", "2023-06-01", "Senior", "Part-time", ["Java", "Spring", "Hibernate", "React"], 120000, "Job Description") job2: ("23451BBB_", "Python Developer", "XYZ Inc", "Sydney, NSW", "2023-07-35", "Junior", "Part-time", ["Python and Machine Learning"], 80000, "Job Description") job3: ("34512CCC_", "C# Developer", "PQR Limited", "Canberra, Australia", "2023-02-29", "Medium", "Internship", ["C#", "ASP.NET MVC"], 30000, "Job Description")	The function should return false and the job information should not be added to the TXT file.	False for all three jobs.	Pass
Test Case 3: updateJob with valid new job details.	job1: ("12345AAA@", "Java Developer", "ABC Corp", "Melbourne, Vic, Australia", "2023-06-01", "Senior", "Full-time", ["Java", "Spring"], 144000, "Updated Job Description") job2: ("23451BBB#", "Python Developer", "XYZ Inc", "Sydney, NSW, Australia", "2023-07-01", "Junior", "Part-time", ["Python"], 66000, "Updated Job Description") job3: ("34512CCC%", "C# Developer", "PQR Limited", "Canberra, ACT, Australia", "2023-08-01", "Medium", "Internship", ["C#", "ASP.NET", "MVC"], 98000, "Updated Job Description")	The function should return true and the job information in the TXT file should be updated.	True for all three jobs.	Pass

Test Case 4: updateJob with invalid new job type for Senior experience level.	("12345AAA_", "Java Developer", "ABC Corp", "Melbourne, Vic", "2023-06-01", "Senior", "Part-time", ["Java", "Spring", "Hibernate", "React"], 150000, "Updated Job Description") job2: ("23451BBB_", "Python Developer", "XYZ Inc", "Sydney, NSW", "2023-07-35", "Junior", "Part-time", ["Python and Machine Learning"], 80000, "Updated Job Description") job3: ("34512CCC_", "C# Developer", "PQR Limited", "Canberra, Australia", "2023-02-29", "Medium", "Internship", ["C#", "ASP.NET MVC"], 110000, "Updated Job Description")	The function should return false and the job information in the TXT file should not be updated.	False for all three jobs.	Pass
Test Case 5: updatJob with valid salary increase for Junior experience level.	job1: ("12345AAA@", "Java Developer", "ABC Corp", "Melbourne, Vic, Australia", "2023-06-01", "Senior", "Full-time", ["Java", "Spring"], 180000, "Updated Job Description") job2: ("23451BBB#", "Python Developer", "XYZ Inc", "Sydney, NSW, Australia", "2023-07-01", "Junior", "Part-time", ["Python"], 70000, "Updated Job Description")	The function should return true and the job information in the TXT file should be updated.	True for both jobs.	Pass
Test Case 6: updateJob with invalid salary increase for Junior experience level.	job1: ("23451BBB_", "Python Developer", "XYZ Inc", "Melbourne, Vic, Australia", "2023-07-01", "Junior", "Part-time", ["Python"], 77000, "Updated Job Description") job2: ("34512CCC_", "C# Developer", "PQR Limited", "Sydney, NSW, Australia", "2023-08-01", "Medium", "Internship", ["Python"], 81000, "Updated Job Description")	The function should return false and the job information in the TXT file should not be updated.	False for both jobs.	Pass

2. User Stories, Acceptance Criteria of the User Stories

User Story 1: Job Seeker Profile

As a job seeker, I want to create a detailed profile showcasing my skills, experience, and education so that potential employers can understand my qualifications.

Acceptance Criteria for User Story 1:

- 1.The system should allow users to input details about their skills, work experience, and education.
- 2.The system should allow users to upload their resumes in commonly used formats (.doc, .pdf).
- 3.The system should visually present user profiles in a clear and professional manner.

User Story 2: Job Posting

As an employer, I want to post job openings on the platform so that potential candidates can apply.

Acceptance Criteria for User Story 2:

- 1.The system should provide an interface for employers to input details about job openings, including title, responsibilities, qualifications, and location.
- 2.The system should allow employers to set application deadlines for job postings.
- 3.The system should display job postings in a manner that is easy for job seekers to find and apply to.

User Story 3: Job Alerts

As a job seeker, I want to receive job alerts based on my career interests and qualifications, so that I can apply for relevant jobs.

Acceptance Criteria for User Story 3:

- 1.The system should allow the user to set their career interests and qualifications.
- 2.The system should send notifications with job alerts that match the user's set interests and qualifications.
- 3.The user should be able to customize the frequency and medium (email, app notification, etc.) of these job alerts.

User Story 4: Content Sharing

As a user, I want to share professional content (articles, thoughts, achievements) on the platform so that I can engage with my network.

Acceptance Criteria for User Story 4:

- 1.The system should provide an interface for users to create and post content.
- 2.The system should allow other users to engage with the content through likes, shares, and comments.
- 3.The system should notify a user when their connections interact with their content.

User Story 5: Admin Content Management

As an admin, I want to monitor and manage the content on the platform to ensure it meets community guidelines.

Acceptance Criteria for User Story 5:

- 1.The system should allow admins to view all content posted on the platform.
- 2.The system should provide admins with the ability to delete or hide content that violates community guidelines.
- 3.The system should allow admins to ban or suspend users who repeatedly violate community guidelines.

3. the link to this GitHub repository

<https://github.com/ZYLIII/ZeyiLi-SEF-Assessment4.git>