JOB CONNECT

SRS DOCUMENT

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CHANGE HISTORY :

VERSION NO.	DATE	MODIFIED BY	CHANGES
1	07/10/2024	Wajeeha Kamran	Original
2	04/11/2024	Wajeeha Kamran Taha Fayyaz	Domain Model : attributes were modified Data Dictionary: data elements were added. System Sequence diagram: was modified the feedback was not indicated as a function. Use case text: additional use case was added .

REMARKS:

_____

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_____

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1.Introduction

1.1 Purpose

Purpose:

The purpose of this System Requirements Specification (SRS) is to provide a detailed description of the software where **companies post jobs**, applicants can **submit their cv or fill out a built-in form** to apply for job, **streamline shortlisting of candidates, appointment scheduling** and **automatic deletion of the job posts** once applicants are hired.

This SRS is intended for the stakeholders that are involved in the project that includes **the development team and customer**.

1.2 Scope and Objectives

Scope :

>Context

This is a **standalone system** managing the recruitment process and overseeing the scheduling of interviews .

>Functions

Functional requirements:

The system will allow:

- ✓ Companies to **post jobs** on the platform.
- ✓ Applicants to apply for jobs **by filling out a built-in form** acting as a CV that can **add, modify or remove** details.
- ✓ **Automatic shortlisting of candidates** according to job requirements.

- ✓ **Scheduling appointments** for the shortlisted candidates.
- ✓ **Feedback** provided to both company and the applicant about the appointment scheduling.
- ✓ **Automatic deletion** of job post after the deadline.

Non-Functional requirements:

- ✓ **Usability**: The user interface should be intuitive, enabling users to complete their tasks easily.
- ✓ **Scalability**: The architecture should allow for easy scaling to accommodate increased user load without major changes to the system.
- ✓ **Security**: The system should implement data encryption and user authentication to protect sensitive information.

Objectives:

- ✓ To provide a **centralized platform** for individuals and companies to easily communicate with each other
- ✓ To make the process of online recruitments process easy and efficient.
- ✓ Providing applicants a platform where they can easily apply **and track their application** status .

1.3 Definitions, Acronyms and Abbreviations

- ✓ IEEE: Institute of Electrical and Electronics Engineers
- ✓ ISO: The International Organization for Standardization
- ✓ CV: Curriculum Vitae, a document used by applicants to detail their qualifications, experience, and skills.
- ✓ Shortlisting: The process of filtering and selecting suitable candidates based on predefined criteria.

- ✓ Appointment Scheduling: Automated system for setting up interview times between candidates and companies.
- ✓ Deadline: a date or time before which something must be done.
- ✓ Deliverables: Product (outcome) after completion of a particular phase.
- ✓ Area of Interest: A field in which a person seeks employment according to their skills and career goals.

1.4 References

1. IEEE Software Construction Guideline. ISO/IEC/IEEE 16326:2019(E)
2. ProjectLibre manual version 0.1-October 6,2012.

1.5 Project Overview

The main aim of this SRS is to develop software that allows companies to post jobs on the platform and applicants to apply for the jobs by submitting their CV's. The system then automatically shortlists suitable applicants according to the job requirements and sets up appointments for them with the relevant companies for interviews. Jobs are automatically deleted from the platform after their deadlines. This SRS outlines system's functional and non-functional requirements, defines scope, objectives and technical specifications essential for developing a secure platform for users.

SRS is organized as follows:

Introduction:
It includes purpose, scope, definitions, references and overview of the SRS.

Overall Description:

It describes the product perspectives, functions, user characteristics, system constraints, assumptions and dependencies.

Specific Requirements:
It includes use case diagram, use case texts, system sequence diagram and data dictionary.

2.Overall Description

1.1 Product Perspective

This is a **standalone system** managing the recruitment process and overseeing the scheduling of interviews .

1.2 Product Functions

UC 1: Register Account

- **Primary Actor**: Company, Applicant, Administrator
- **Description**: This use case allows new users (companies, applicants, or administrators) to create an account. The Users fills in the required details such as name, email, contact no and password. Based on the type of user, additional information (like company documents or applicant's CV) is required. A confirmation code verifies the email, and upon successful entry, users receive confirmation of registration.

UC 2: Log In

- **Primary Actor**: Company, Applicant, Administrator
- **Description**: This use case enables registered users to log in by entering their email or username and password. After verifying these

requirements, the system navigates to the user's home feed. In case of incorrect credentials, the system provides feedback, and a "forgot password" feature is available to recover account by changing password.

UC 3: Posting Job

- **Primary Actor**: Company
- **Description**: In this use case the Company posts a new job on the platform, entering details like job title, description, requirements, images, deadline, and a form link for applicants. The system saves the post and provides feedback when it is successfully uploaded.

UC 4: Edit Job Post

- **Primary Actor**: Company
- **Description**: This use case allows the Company to edit an existing job post, by updating fields such as job title, description, requirements, or deadline. After saving, the system provides feedback indicating that the post has been successfully updated.

UC 5: Delete Job Post

- **Primary Actor**: Company
- **Description**: This use case allows the Company to delete an already posted job , and the system confirms the deletion by providing feedback , ensuring the job post is removed from the platform and no longer visible to applicants.

UC 6: Applying Job

- **Primary Actor**: Applicant

- **Description**: This use case describes the steps an applicant follows to apply for a job, which includes filling out personal and academic details, uploading necessary documents and a CV, and submitting the application. The system provides feedback upon successfully submitting the job form .

UC 7: Edit Job Form

- **Primary Actor**: Applicant
- **Description :** This use case allows an applicant to edit a previously submitted job application form. The applicant can update personal, academic information, documents, and the CV, and the system confirms the successful submission of the edited form.

UC 8: Delete Job Form

- **Primary Actor**: Applicant
- **Description**: This use case describes how an applicant can delete a submitted job form. The system requests confirmation before deletion and provides feedback after successfully removing the form from the system.

UC 9: Shortlisting Candidates

- **Primary Actor**: Company
- **Description**: This use case allows companies to view a list of candidates shortlisted for a posted job after the system has processed it . The system automatically checks each application against job requirements provided by the company and generates a shortlist. The company can then proceed to schedule interviews, with feedback sent to both

shortlisted and non-shortlisted candidates and the company of the list of the candidates.

UC 10: Scheduling Interview

- **Primary Actor**: Company
- **Description**: Tin this use case the company schedules interview for shortlisted candidates by providing their schedules using dates and time of their availability . The system then creates an interview schedule without conflicts and provides feedback to both the Company and applicants.

UC 11: Edit Schedule

- **Primary Actor**: Company
- **Description**: This use case enables a company to update the interview schedule for shortlisted candidates if there are any discrepancies due to wrong date or times. The company can submit a new schedule, and the system adjusts interview times, accordingly, providing feedback to both the company and applicants.

Function1: Deleting Jobs Automatically

- **Primary Actor**: System
- **Description**: In this case the system automatically deletes the job posts once their deadline is reached , removing it from the platform so that it is not accessible or shown to the company or any applicant who is seeking jobs.

1.3 User Characteristics

Educational Level: Minimum secondary level education.

Experience: Knows various software terminologies and how to use software and have used this type of software at least once.

Technical Expertise: Knows basic computer tools till higher level.

1.4 Constraints

- ✓ The software will be built using **Java programming language**.
- ✓ The system will be developed as an **app-based platform**.
- ✓ It will be provided as **a free software**.
- ✓ The platform will be available only in **English language** .
- ✓ The project must be completed by **14 weeks of development window** .
- ✓ The software will have **a limited initial user base** which may impact the efficiency of recruitment process.

1.5 Assumptions and Dependencies

- ✓ Assuming that there is a **significant demand for recruitment software** and will also fulfill **core need in the job market**.
- ✓ Assuming that the companies and the applicants have the **basic knowledge of such software systems** allowing them to use and navigate through the platform easily.
- ✓ Assuming that the companies will **provide accurate job descriptions and criteria**.
- ✓ Assuming that the **applicants will maintain up-to-date profiles and submit relevant and accurate information**

3.Specific Requirements

3.1 Use Case Diagram
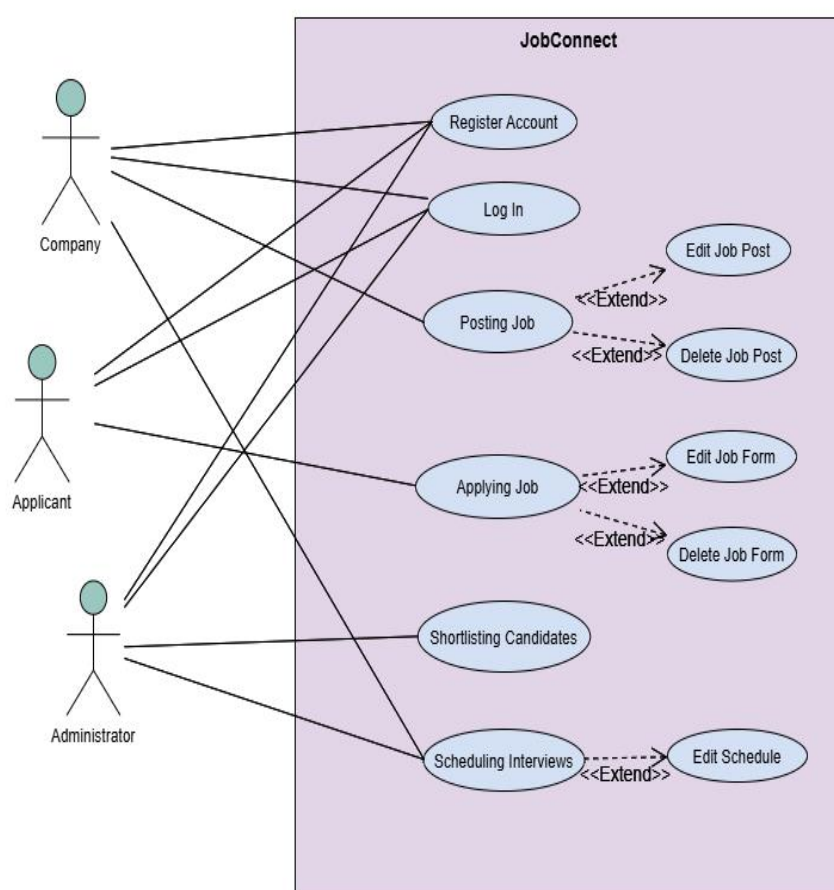
3.2 Use Case Description

USE CASE BY: NAILA HABIB

UC 1: Register Account

Primary Actor:

Company, Applicant & Administrator.

Stakeholders and Interests:

- Company:

  ➢ Wants easy registration to upload jobs and select applicants according to their needs and requirements.

- Applicant:

  ➢ Wants to register easily to view jobs and apply for it.

- Administrator:

  ➢ Wants easy registration to monitor and manage their application.

Preconditions:

  ➢ **Actor** has already an e-mail**.**
  ➢ **Actor** must be on registration page.

Success Guarantee (postconditions):

  ➢ The system successfully registered the actor and provides feedback to actor that they are registered.

Input:

First name, last name, e-mail, mobile no, password, location, special code(for administrator), description, area of interest, CV, educational records.

Output:

Successful registration.

Main Success Scenario (or Basic Flow):

1. The actor enters their **first name and last name**.
2. Actor then presses the **continue option**.
3. The actor **navigates** to next page.
4. Actor enters the **e-mail, mobile no** and **password**.
5. Actors click on **continue option**.
6. System sends **confirmation code** to the entered email.
7. Actors **enter the code** and then presses continue.
8. Actor entered their username and select the designation (administrator, company, applicant).
9. Actors click on **continue option.**
10. The actor navigates to the registration form.
11. **1- Administrator:**
    1. Administrator select location and enters the special code to prove that they are administrator.

    2- Company:
    1. Company selects location, enter description of their company, enters documents to prove that it is company.

    3-Applicant:
    1. Applicant selects location, selects area of interest, provide CV and educational records.
12. Actor then presses continue option.
13. System checks the data and saves it.
14. Feedback is given that you are successfully registered.

Alternate Scenario (or Extensions):

*a. At any time, **the system fails**:
To ensure **recovery of the data**, the software saves the **existing data** of the actor's registration info in the form of backups on Microsoft azure.

1a. The actor entered short names:

1. Actor must entered appropriate length. First and last name having 4 characters.

2a. Continue option is not available:

1. The fields are not filled.
2. First fields are filled then option will be available.

3a. The system does not navigate to new screen on pressing **continue option**.

1. The software displays a message as feedback that the screen could not open at that time and asks the **actor to try again**.

4a. Actor entered wrong e-mail:

1. The field will be underlined if email doesn't have @ sign, .com at end.

4b. Actor entered short mobile no:

1. Feedback is given that the phone no length must be 11 digits.

4c. Actor enters short password:

1. Feedback is given that the Password length must be greater than 6 and have special character for more security.

5a. Continue option is not available:

1. The fields are not filled.
2. First fields are filled then option will be available.

6a. Confirmation code is not provided:

1. Wait for 30 sec and then press on resend code option.

7a. Actor enters wrong confirmation code:

1. Feedback is shown that the entered code is wrong.

2. Press resend code option and then enter again.

8a. Actor enters short user name:

1. Feedback is given that Username size must be greater than 6.

8b. Actor entered already existing username:

1. Feedback is given that the username is already exists. Use unique

   username.

9a. Continue option is not available:

1. The fields are not filled.
2. First fields are filled then option will be available

10a. The system does not navigate to new screen on pressing **continue option**.

1. The software displays a message as feedback that the screen

could not open at that time and asks the **actor to try again**.

11.1.a. Administrator enters wrong special code:

1. Feedback is given that the code is not correct.

11.1. b. Too many wrong special code:

1. After the 5th wrong code, the system blocks that email in this app and navigates to start page of the app.

2. The feedback is provided that there is security threat. Unauthorized entry is not allowed.

11.2. a. Documents file extension are other than pdf:

1. Feedback is provided specifying that this type of document contains the file extension that is not supported by the System and asks them to resubmit the document file to the required extension pdf.

11.3. a. CV file extension are other than pdf:

1. Feedback is provided specifying that this type of document contains the file extension that is not supported by the System and asks them to resubmit the document file to the required extension pdf.

(11.1 +11.2 +11.3). Actor doesn't selects the location:

1. The field is underlined.

12a. Continue option is not available:

1. The fields are not filled.
2. First fields are filled then option will be available.

Special Requirements:

 - **Feedback** section must be available for improving purpose.

 - The **registration form** should be easily visible to the users of the platform by using **font size** that is easily readable like **12 font size**.

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

  Open for feedback to improve **use case text**.

UC 2: Log In

Primary Actor:

Company, Applicant & Administrator.

Stakeholders and Interests:

- Company:

> ➢ Wants easy log in to upload jobs and select applicants according to their needs and requirements.

- Applicant:

> Wants to log in easily to view jobs and apply for it.

-Administrator:

> Wants easy log in to monitor and manage their application.

Preconditions:

> **Actor** must be registered and verified**.**
> **Actor** must be on log in page.

Success Guarantee (postconditions):

> **Actor** is logged in to their accounts and **system** shows their home feed
.

Input:

E-mail, password.

Output:

Successful log in.

Main Success Scenario (or Basic Flow):

1. The actor enters their **email/username and password**.
2. The System **checks** the given data and verify it.
3. Actor **navigates** to their desired Home feed.

Alternate Scenario (or Extensions):

*a. At any time, **the system fails**:
To ensure **recovery of the data**, the software saves the **existing data** of
the actor's log in info in the form of backups on Microsoft azure.

1a. The entered **data is incorrect**:

1. System displays an **error message** incorrect username/e-mail
or password. **Please try again**.

1b. Actor forgets the password:

1. Select **"forget password"** option.
2. System asked for **email / mobile phone number** on which the email is made so that it send the **reset link**.
3. Actor clicks on it and **reset password**.

3a. The system does not navigate to new screen on pressing **the log in option**.

1. The software displays a message as feedback that the screen could not open at that time and asks the **actor to try again**.

3b. The **home feed** is not showing:

1. **Refresh the app** by scrolling the screen down.

Special Requirements:

 - **Feedback** section must be available for improving purpose.

 - The **Home Feed** should be easily visible to the users of the platform by using **font size** that is easily readable like **12 font size**.

 - The system automatically **logged out** after **20 mins** if the user donot do any action/activity .

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

 Open for feedback to improve **use case text**.

UC 9: Shortlisting Candidates

Primary Actor:

Company

Stakeholders and Interests:

- <u>Company</u>:

  ➢ Wants to easily get the list of the candidates shortlisted by the system according to the requirements provided by the company and proceed to the scheduling interview process .

- <u>Applicant</u>:

  ➢ Wants to be considered for the job position and to get timely feedback on the shortlisting process.

Preconditions:

  ➢ **Company** is registered and logged in.
  ➢ **Company** has already posted the job, and its deadline has already been reached and feedback is provided to it about this .

Success Guarantee (postconditions):

  ➢ The System successfully shortlist the candidates and provides feedback to both the company and the applicant .

Input:

  ➢ Company criteria (skills, experience, education).
  ➢ Student form.

Output:

  ➢ list of shortlisted candidates.

Main Success Scenario (or Basic Flow):

  1. Company clicks on the **shortlisting option**.
  2. The System **retrieves all the applications** and cross match them with the requirements (skills, experience, education) provided by the company.
  3. The System shortlists the candidates **according to the criteria of shortlisting provided by the company**: skills, experience, education.

4. The System **navigates to the screen** containing the list of shortlisted candidates .
5. The Shortlisted and non-shortlisted candidates are **provided with feedback .**
6. The Company then presses the **schedule interview option**.

Alternate Scenario (or Extensions):

*a. At any time, **the system fails**:
To ensure **recovery of the data**, the software saves the **existing data** of the company's job applications in the form of backups on Microsoft azure .

2a. The System does **not open the screen** to shortlist the candidates:

1. The software displays a **message as feedback** that the screen

   could not open at that time and asks the **company to try again**.

3a. No candidate matches the criteria provided by the company.

1. Feedback is provided to the company to wither change or reduce the criteria since no candidate matches their existing criteria .

4a . The screen does not show the list of shortlisted candidates.

1. The software displays a message as feedback that the screen

   could not open at that time and asks the **company to try again**.

6a . The system does not navigate to new screen on pressing the schedule interview button.

1. The software displays a message as feedback that the screen

   could not open at that time and asks the **company to try again**.

Special Requirements:

 - **Feedback** section must be available for improving purpose.

 - The **list of shortlisted candidates** should be easily visible to the users of the platform by using **font size** that is easily readable like **12 font size**.

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

Open for feedback to improve **use case text**.

<u>USE CASE BY WAJEEHA KAMRAN</u>

UC 3: Posting Job

Primary Actor:

Company

Stakeholders and Interests:

- <u>Company</u>:

> ➢ Wants to easily upload the job post and it reaches the required audience like the Applicant who is applying for the related job.

- <u>Applicant</u>:

> ➢ Wants to have easy access to the jobs using key words or when their interests are mentioned on the related post jobs.

Preconditions:

> ➢ **Company** is registered and logged in.

Success Guarantee (postconditions):

> ➢ The **Company** easily uploads the job posts.
> ➢ The System provides feedback to the company after post is uploaded.

Input:

job title, description, images, requirements the deadline and link for the form.

Output:

Job post .

Main Success Scenario (or Basic Flow):

1. Company clicks on the **post job option**.
2. The System opens the screen where the company must upload all the job description information.
3. The Company enters the required **job title, description, images, requirements and the deadline** for the job application.
4. The Company also adds the l**ink for the form** where the applicant must fill in his information to apply for the respective jobs.
5. The Company presses the **post option**.
6. The System provides **feedback** on the job being posted on the platform to the Company.

Alternate Scenario (or Extensions):

*a. At any time, **the System fails**:
To ensure **recovery of the Job Post data**, the software saves the **existing data** of the company's post job and then when Company reopen the app, App will resume its working where Company had left so that they can recover from any step.

2 a. The System does **not open the screen** to upload the job:
  1. The software displays a **message as feedback** that the screen could not open at that time and ask the **company to try again**.

3 a. The Company writes **long or short titles of Job Post**:

  1. **Feedback** is provided specifying the length of a standard title, **for long title**, **length is 32 characters, for short title, length is 10 characters**.

3 b. The **Image** file extension is other than **pdf, jpg, png**:

1. **Feedback** is provided specifying that this type of image contains the file extension that is not supported by the System and asks them to **resubmit the image file to the required extension of image, which is pdf, jpg, png**.

3 c. The Company **selects the deadline** for previous dates:

1. **Feedback** is provided specifying that the Company cannot select **past dates,** and Company must choose future dates.

5. a. Company leaves any **text field empty** and presses the **post button**:

1. **Feedback** is provided to the Company to not leave the fields empty and fill out **all fields for successfully submitting the Post**.

Special Requirements:

 - **Feedback** section must be available for improving purpose.

 - The **job description** should be easily visible to the users of the platform by using **font size** that is easily readable like **12 font size**.

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

 Open for feedback to improve **use case text**.

UC 4: Edit Job Post

Primary Actor:

Company

Stakeholders and Interests:

- Company:

➢ Wants to easily edit the job post and it reaches the required audience like the Applicant who is applying for the related job.

- Applicant:

➢ Wants to have easy access to the new edited jobs using key words or when their interests are mentioned on the related post jobs.

Preconditions:

➢ **Company** is registered and logged in.
➢ The job is already posted on the platform.

Success Guarantee (postconditions):

➢ The **Company** easily edits the job posts.
➢ The System provides feedback to the company after post is edited.

Input:

Job post ,edited job title or edited description or edited images or edited requirements or edited deadline, or the form.

Output:

Edited Job Post.

Main Success Scenario (or Basic Flow):

1. Company selects the **edit post job option**.
2. The System opens the screen where the company's job description information is present.

3. The Company enters the required **job title, description, images, requirements , the deadline, or the form** that it needs to edit.
4. The Company selects the **save** option.
5. The System provides **feedback** on the job post being successfully edited on the platform to the Company.

Alternate Scenario (or Extensions):

*a. At any time, **the System fails**:

To ensure **recovery of the Job Post data**, the software saves the **existing data** of the company's post job and then when Company reopen the app, App will resume its working where Company had left so that they can recover from any step.

2   a. The System does **not open the screen** to edit the job post:
   1. The software displays a **message as feedback** that the screen could not open at that time and ask the **company to try again**.
3   a. The Company writes **long or short titles of Job Post**:
   1. **Feedback** is provided specifying the length of a standard title, **for long title**, **length is 32 characters, for short title, length is 10 characters**.
3   b. The **Image** file extension is other than **pdf, jpg, png**:
   1. **Feedback** is provided specifying that this type of image contains the file extension that is not supported by the System and asks them to **resubmit the image file to the required extension of image, which is pdf, jpg, png**.
4   c. The Company **selects the deadline** for previous dates:

   1. **Feedback** is provided specifying that the Company cannot select **past dates,** and Company must choose future dates.

5. a.   Company leaves any **text field empty** and clicks the **save option**:

   1. **Feedback** is provided to the Company to not leave the fields

   empty and fill out **all fields for successfully edit the Post**.

Special Requirements:

 - The edit post job option should be visible to the company .

 - **Feedback** section must be available for improving purpose.

 - The **edited job description** should be easily visible to the users of the platform by using **font size** that is easily readable like **12 font size**.

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

  Open for feedback to improve **use case text**.

UC 5: Delete Job Post

Primary Actor:

Company

Stakeholders and Interests:

- <u>Company</u>:

> ➤ Wants to easily delete the job post and it is removed from the entire platform .

- <u>Applicant</u>:

> ➤ Wants that the deleted job post is not shown to him even when key words or their interests are mentioned on the related post jobs.

Preconditions:

➢ **Company** is registered and logged in.
➢ The job is already posted in the platform .

Success Guarantee (postconditions):

➢ The **Company** easily deletes the job posts.
➢ The System provides feedback to the company after post is deleted.

Input:

Job Post.

Output:

Deleted Job post.

Main Success Scenario (or Basic Flow):

1. Company selects the **delete post job option**.
2. The System displays a message asking if the company wants to delete the job post.
3. The Company selects the **yes** option.
4. The System provides **feedback** on the job post being successfully deleted on the platform to the Company.

Alternate Scenario (or Extensions):

*a. At any time, **the System fails**:
To ensure **recovery of the Job Post data**, the software saves the **existing data** of the company's post job and then when Company reopen the app, App will resume its working where Company had left so that they can recover from any step.

2   a. The System does **not open the message** to delete the job post:
1. The software displays a **message as feedback** that the screen could not open at that time and ask the **company to try again**.

Special Requirements:

- The delete post job option should be visible to the company .

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

Open for feedback to improve **use case text**.

UC 10: Scheduling Interview

Primary Actor:

Company

Stakeholders and Interests:

- <u>Company</u>:

  ➢ Wants to easily get the interview schedule for the shortlisted candidates by the system according to the schedule provided by the company and no clash occurs in that schedule and get the feedback of that schedule.

- <u>Applicant</u>:

  ➢ Wants to get the interview Schedule on time with all the details of the interview .

Preconditions:

  ➢ **Company** is registered and logged in.
  ➢ **Company** has already posted the job, its deadline has already been reached , candidates have been shortlisted and feedback in the form of list of candidates has been provided to the company.

Success Guarantee (postconditions):

➢ The System successfully Schedules the interview and provides feedback to both the company and the applicant .

Input:

List of shortlisted candidates, schedule of company .

Output:

Interview schedule .

Main Success Scenario (or Basic Flow):

1. Company clicks on the **schedule interview option**.
2. The System navigates to the screen where the company clicks on the upload company schedule option .
3. The Company then submits its schedule in form of dates and time when they are available and selects the submit option .
4. The System **navigates back to the same screen** where proceed option becomes available .
5. The System then schedules the interview according to the schedule provided **by the company**.
6. The System **navigates to the screen** containing the list of interview schedule .
7. The company and the applicants are provided with feedback **.**

Alternate Scenario (or Extensions):

*a. At any time, **the system fails**:
To ensure **recovery of the data**, the software saves the **existing data** of the company's job applications in the form of backups on Microsoft azure .

1a. The System does **not open the screen** to schedule the interview :

1. The software displays a **message as feedback** that the screen could not open at that time and asks the **company to try again**.

4a . The proceed option does not become available due to format issue

or back dates :

1. The software displays a message as feedback to enter the schedule again .

6a . The system does not navigate to new screen on selecting the proceed

option :

1. The software displays a message as feedback that the screen

could not open at that time and asks the **company to try again**.

Special Requirements:

- The options are easily available and visible to the company and it must be

12 font size . .

- **Date and Time format of the form** is understandable i.e. Dd/mm/yy **.**

- Both the company and the applicant get the feedback .

- The text of the schedule list should be easily visible to the users of the

platform, and it must be 12 font size.

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

Open for feedback to improve **use case text**.

USE CASE BY: TAHA FAYYAZ

UC 6: Applying Job

Primary Actor:

Applicant.

Stakeholders and Interests:

- Company:

  ➢ Wants to easily check the records of the applicants those who have applied for their jobs.

- Applicant:

  ➢ Wants to have easy access to the jobs using key words or when their interests are mentioned, and applicants can easily apply for their relevant jobs.

Preconditions:

  ➢ Applicants are registered and logged in.

Success Guarantee (postconditions):

  ➢ The Applicant applied successfully for the Job.
  ➢ The System provides feedback to the Applicant that the **Applicant has submitted** the form for applying for a job.

Input:

  ➢ Personal Information which includes email, name, gender, contact number, country and city.
  ➢ Academic Information which includes College Name, College Grade, Highest Academic Qualification, Grade of Highest Academic Qualification, Current Year of Course, Domain for Job applying.

➢ Documents in PDF format include College Degree, University Degree, Certificates related to field of Interest, Experience Certificate (if the Applicant has worked before).

➢ CV in PDF format.

Output:

➢ Applicant successfully applied for a job applying and submitted his job form.

Main Success Scenario (or Basic Flow):

1. The Applicant sees the relevant **job poster on the post screen**.
2. The Applicant selects the link **Apply here** for applying for that job.
3. The System navigates on the google form screen for applying for a job.
4. The Applicant fills in the **required Personal Information which includes email, name, gender, contact number, country and city**.
5. The Applicant fills in the **required Academic Information which includes College Name, College Grade, Highest Academic Qualification, Grade of Highest Academic Qualification, Current Year of Course, Domain for Job Applying**.
6. The Applicants fill in the required **Documents in Pdf format which includes College Degree, University Degree, Certificates related to field of Interest, Experience Certificate** (if the Applicant has worked before).
7. The Applicant uploads the **CV in Pdf format**.
8. The Applicant selects the **Submit option**.
9. The System provides **feedback** indicating that the **form for applying for a job** has been submitted successfully.

Alternate Scenario (or Extensions):

*a. At any time, **the System fails**:

To ensure the **recovery of the data of form for applying job**, the software saves the **existing data** of the Applicant's form data and then

when the Applicant reopens the form, app will resume its working where Applicant had left so that they can recover from any step.

1 a. The Post Screen does **not display Jobs to the Applicant** because of **lack of Internet or app is down**:
   1. **Refresh the Screen by scrolling up**, that will trigger the spinner to refresh the screen and **allow the Applicant** to view the **posts again**.

2   a. The System does **not open the link** to apply for the job:
   1. The software displays a **message as feedback** that the screen could not open at that time and ask the **Applicant to try again**.

3   a. The System does **not open the google form** to apply for the job:
   1. The Software displays a **message as feedback** that the google form could not open at that time and ask the **Applicant to reopen the google form** to view the **form again**.

6 a. The **Image** file extension is other than **pdf, jpg, png**:

   1. **Feedback** is provided specifying that this type of image contains the file extension that is not supported by the System and asks them to **resubmit the image file to the required extension of image, which is pdf, jpg, png**.

8 a.   Applicants leave any **text field empty** and select the **Submit option:**

   1. **Feedback** is provided to the Applicant to not leave the fields

   empty and fill out **all fields for successfully applying for the Job**.

Special Requirements:

- Feedback section must be available for improving purpose.

 - The text of the job description should be easily visible to the users of the platform, and it must be of 12 font size.

Frequency of Occurrence:

Could be nearly continuous.

Open Issues:

Open for feedback to improve use case texts.

UC 7: Edit Job Form

Primary Actor:

Applicant.

Stakeholders and Interests:

- Company:

  ➢ Wants to easily check the records of the applicants who have applied for their jobs after editing their job form and only the edited form must be displayed and received by the Company.

- Applicant:

  ➢ Wants to easily edit the job forms and allowed to easily enter correct information.

Preconditions:

  ➢ Applicants are registered and logged in.
  ➢ Applicants have submitted their Job form.

Success Guarantee (postconditions):

  ➢ The Applicant **edited** the form successfully.
  ➢ The **edited information** has been displayed in Applicants form.
  ➢ The System provides feedback to the Applicant that the **Applicant has edited** the form for applying for a job.

Input:

➢ Personal Information that needs to be edited includes email, name, gender, contact number, country and city.

➢ Academic Information that needs to be edited includes College Name, College Grade, Highest Academic Qualification, Grade of Highest Academic Qualification, Current Year of Course, Domain for Job applying.

➢ Documents in PDF format that need to be edited College Degree, University Degree, Certificates related to field of Interest, Experience Certificate (if the Applicant has worked before).

➢ CV in PDF format that needs to be edited.

Output:

➢ Applicants successfully edited the job form and submitted the edited form.

Main Success Scenario (or Basic Flow):

1. The Applicant selects the relevant **job form which they have submitted to edit**.
2. The Applicant selects the **edit form option** for editing that job form.
3. The System navigates on the **edit form screen**.
4. The Applicant fills in the **required Personal Information that needs to be edited includes email, name, gender, contact number, country and city** (if they want to edit).
5. The Applicant fills in the **required Academic Information that needs to be edited includes College Name, College Grade, Highest Academic Qualification, Grade of Highest Academic Qualification, Current Year of Course, Domain for Job Applying** (if they want to edit).
6. The Applicants fill in the required **Documents that need to be edited in Pdf format include College Degree, University Degree,**

Certificates related to field of Interest, Experience Certificate (if the Applicant has worked before), (if they want to edit).

7. The Applicant uploads the **CV in Pdf format that needs to edited** (if they want to edit).
8. The Applicant selects the **Submit option**.
9. The System provides **feedback** indicating that the **form for applying for a job** has been **edited and submitted** successfully.

Alternate Scenario (or Extensions):

*a. At any time, **the System fails**:

To ensure the **recovery of the data of form for editing of applying job**, the software saves the **existing data** of the Applicant's form data and then when the Applicant reopens the form, app will resume its working where Applicant had left so that they can recover from any step.

1 a. The Post Screen does **not display Jobs to the Applicant which they have submitted** because of **lack of Internet or app is down**:

1. **Refresh the Screen by scrolling up**, that will trigger the spinner to refresh the screen and **allow the Applicant** to view the **submitted forms again**.

3 a. The System does **not open the edit form screen** to edit the job:

1. The Software displays a **message as feedback** that the edit form screen could not open at that time and ask the **Applicant to reopen the screen** to view the **form again**.

5   a. The **Image** file extension is other than **pdf, jpg, png**:

1. Feedback is provided specifying that this type of image contains the file extension that is not supported by the System and asks them to **resubmit the image file to the required extension of image, which is pdf, jpg, png**.

8 a. Applicants leave any **text field empty** and select the **Submit option:**

1. **Feedback** is provided to the Applicant to not leave the fields empty and fill out **all fields for successfully editing and submitting the job form**.

Special Requirements:

- Feedback section must be available for improving purpose.

 - The text of the job description should be easily visible to the users of the platform, and it must be 12 font size.

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

   Open for feedback to improve use case texts.

UC 8: Delete Job Form

Primary Actor:

Applicant.

Stakeholders and Interests:

- Company:

   ➢ Does not want to see the forms that have been deleted by the Applicants. Only the edited or submitted forms must be seen by the Company.

- Applicant:

   ➢ Wants to easily delete the job forms and allowed to easily delete any form submitted by the applicant.

Preconditions:

- ➢ Applicants are registered and logged in.
- ➢ Applicants have submitted their Job Form.

Success Guarantee (postconditions):

- ➢ The Applicant **deletes** the form successfully.
- ➢ The System provides feedback to the Applicant that the **Applicant has deleted** the form for applying for a job.

Input:

- ➢ Applicant applying for job.

Output:

- ➢ Job form of the applicant deleted successfully.

Main Success Scenario (or Basic Flow):

1. The Applicant selects the relevant **job form which they want to delete**.
2. The Applicant selects the **delete form option** for deleting that job form.
3. The System asks the Applicants for **confirmation** that they really want to **delete the form**.
4. The Applicant selects the **delete option**.
5. The System deletes the selected **Job Form of the Applicant**.
6. The System provides **feedback** indicating that the **desired form for applying for a job** has been **deleted** successfully.

Alternate Scenario (or Extensions):

*a. At any time, **the System fails**:
To ensure what the applicant wants, it will **not delete the form**, and then when the Applicant reopens the form, app will resume its working where Applicant had left so that they can recover from any step.

1 a. The Post Screen does **not display Jobs to the Applicant which they have submitted** because of **lack of Internet or app is down**:

1. **Refresh the Screen by scrolling up**, that will trigger the spinner to refresh the screen and **allow the Applicant** to view the **submitted forms again**.

3   a. The System does **not open the delete form option** to delete the job form:

1. The Software displays a **message as feedback** that the delete form option could not open at that time and asks the **Applicants to reopen the screen** to view that **option again**.

Special Requirements:

- Feedback section must be available for improving purpose.

 - The text of the deleted form job should be easily visible to the users of the platform, and it must be 12 font size.

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

   Open for feedback to improve use case texts.

UC 11: Edit Schedule

Primary Actor:

Company

Stakeholders and Interests:

- Company:

  ➢ Wants to easily edit the interview schedule for the shortlisted candidates by the system according to the new schedule provided by the company and no clash occurs in that schedule and get the feedback of that schedule.

- <u>Applicant</u>:

➢ Wants to get the edited and updated interview Schedule on time with all the details of the updated interview.

Preconditions:

➢ **Company** is registered and logged in.
➢ **The company** has the interview schedule provided by the system according to Company's previous schedule.

Success Guarantee (postconditions):

➢ The System successfully Schedules the updated interview according to updated schedule provided by the Company and provides feedback to both the company and the applicant.

Input:

List of shortlisted candidates.

Output:

Updated Interview schedule.

Main Success Scenario (or Basic Flow):

1. Company clicks on the **edit schedule interview option**.
2. The System navigates to the screen where the company clicks on the upload **updated company schedule** option.
3. The Company then submits its updated schedule in the form of dates and time when they are available and selects the submit option.
4. The System **navigates back to the same screen** where proceed option becomes available.
5. The System then schedules the interview according to the updated schedule provided **by the company**.

6. The System **navigates to the screen** containing the list of updated interview schedule.
7. The company and the applicants are provided with feedback**.**

Alternate Scenario (or Extensions):

*a. At any time, **the system fails**:

To ensure **recovery of the data**, the software saves the **existing data** of the company's job applications in the form of backups on Microsoft azure.

1a. The System does **not open the screen** to edit the schedule of interview:

1. The software displays a **message as feedback** that the screen could not open at that time and asks the **company to try again**.

4a. The proceed option does not become available due to format issue

or back dates:

1. The software displays a message as feedback to enter the schedule again.

6a. The system does not navigate to new screen on selecting the proceed

option:

1. The software displays a message as feedback that the screen

could not open at that time and asks the **company to try again**.

Special Requirements:

- The options are easily available and visible to the company, and it must be

   12 font size.

- **Date and Time format of the form** is understandable i.e. Dd/mm/yy**.**

- Both the company and the applicant get feedback.

- The text of the schedule list should be easily visible to the users of the

platform, and it must be 12 font size.

Frequency of Occurrence:

It could be nearly continuous.

Open Issues:

Open for feedback to improve **use case text**.

Function1: Deleting Jobs Automatically

Stakeholders and Interests:

- <u>Company</u>:

  ➤ Does not want to see the deleted Jobs that are deleted by the System itself because of the deadline reached.

- <u>Applicant</u>:

  ➤ Does not want to see the deleted jobs deleted by the system, so that Applicant does not apply on that deleted job.

Preconditions:

  ➤ **Job** has been posted on the app.
  ➤ **Job deadline** has been reached.

Success Guarantee (postconditions):

  ➤ The System successfully deletes the posted Jobs those deadlines have been reached. Those Jobs will be deleted from the system.

Input:

Deadlines of Job Posts.

Output:

Job Posts deleted successfully.

Action Flow:

1. The system checks the deadlines with their respective job posts.
2. As the deadline is reached for the job post, System will automatically identify that job has been expired.
3. The System automatically deletes the reached deadline job from the app.
4. Feedback is being provided to the Company that the posted job has been deleted.

Special Requirements:

- **Date and Time format of the form** is understandable i.e. Dd/mm/yy**.**

- The company should get the feedback.

Frequency of Occurrence:
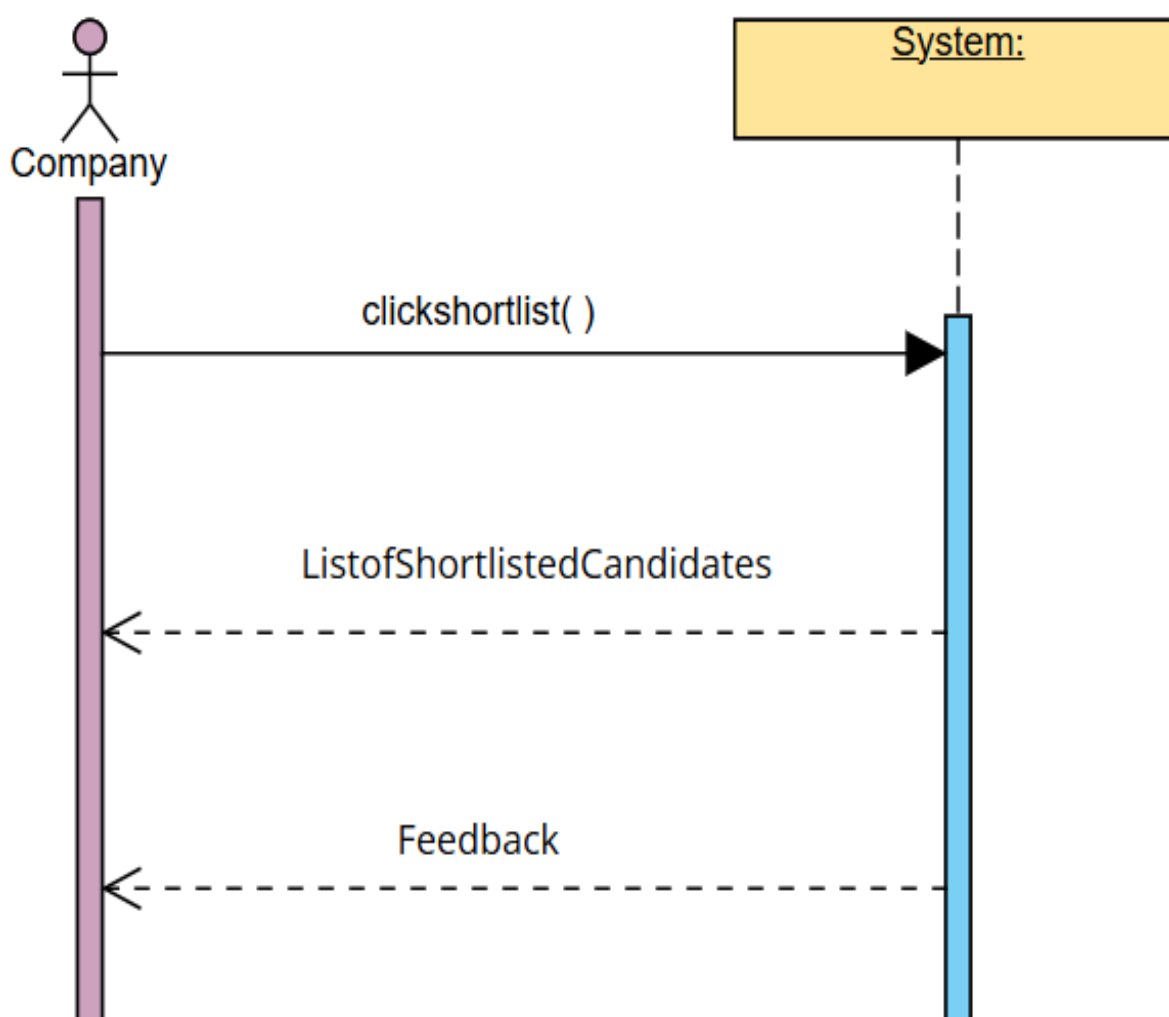
It could be nearly continuous.

Open Issues:

Open for feedback to improve **use case text**.

4.Appendixes
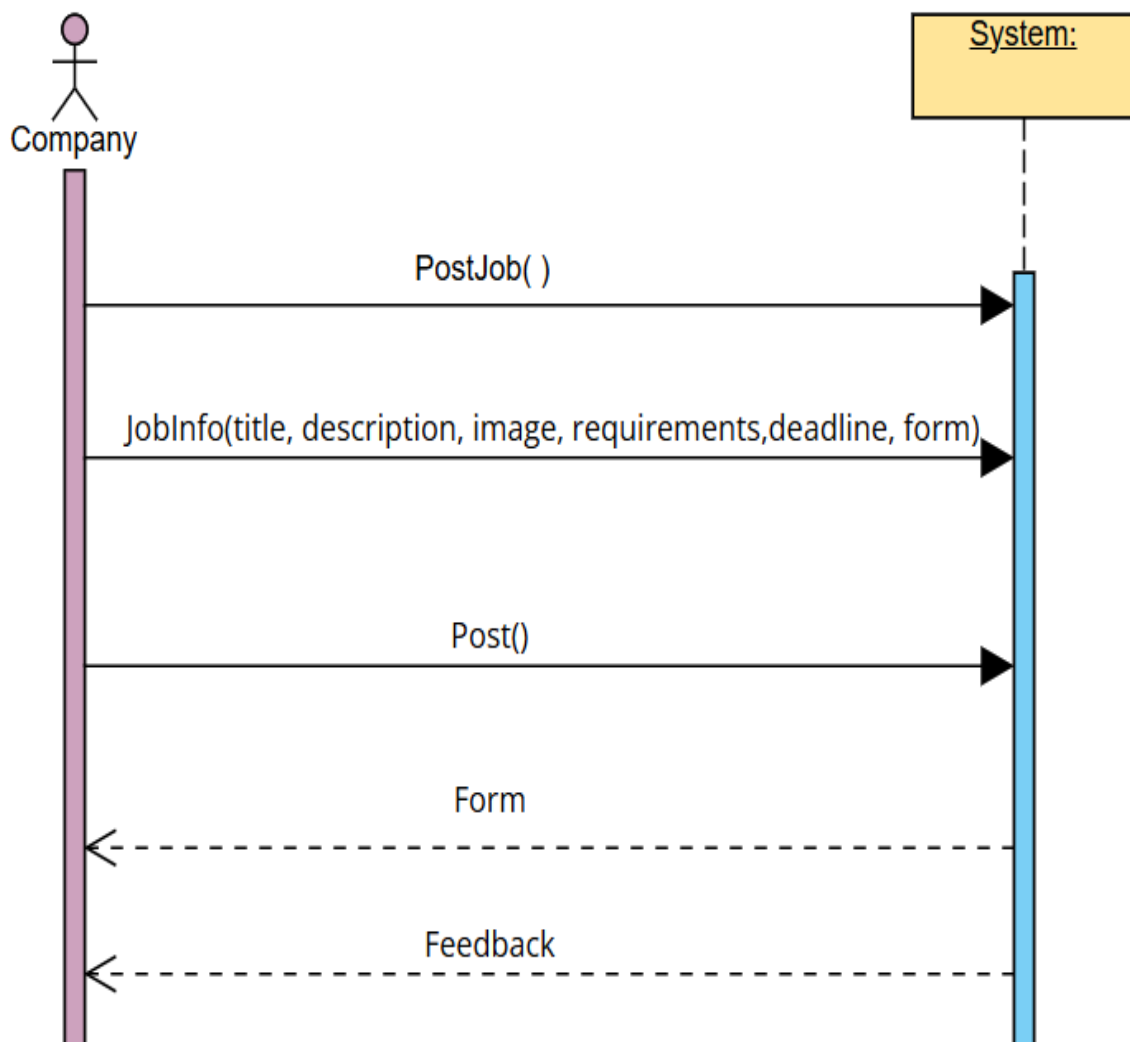
4.1 System Sequence Diagram

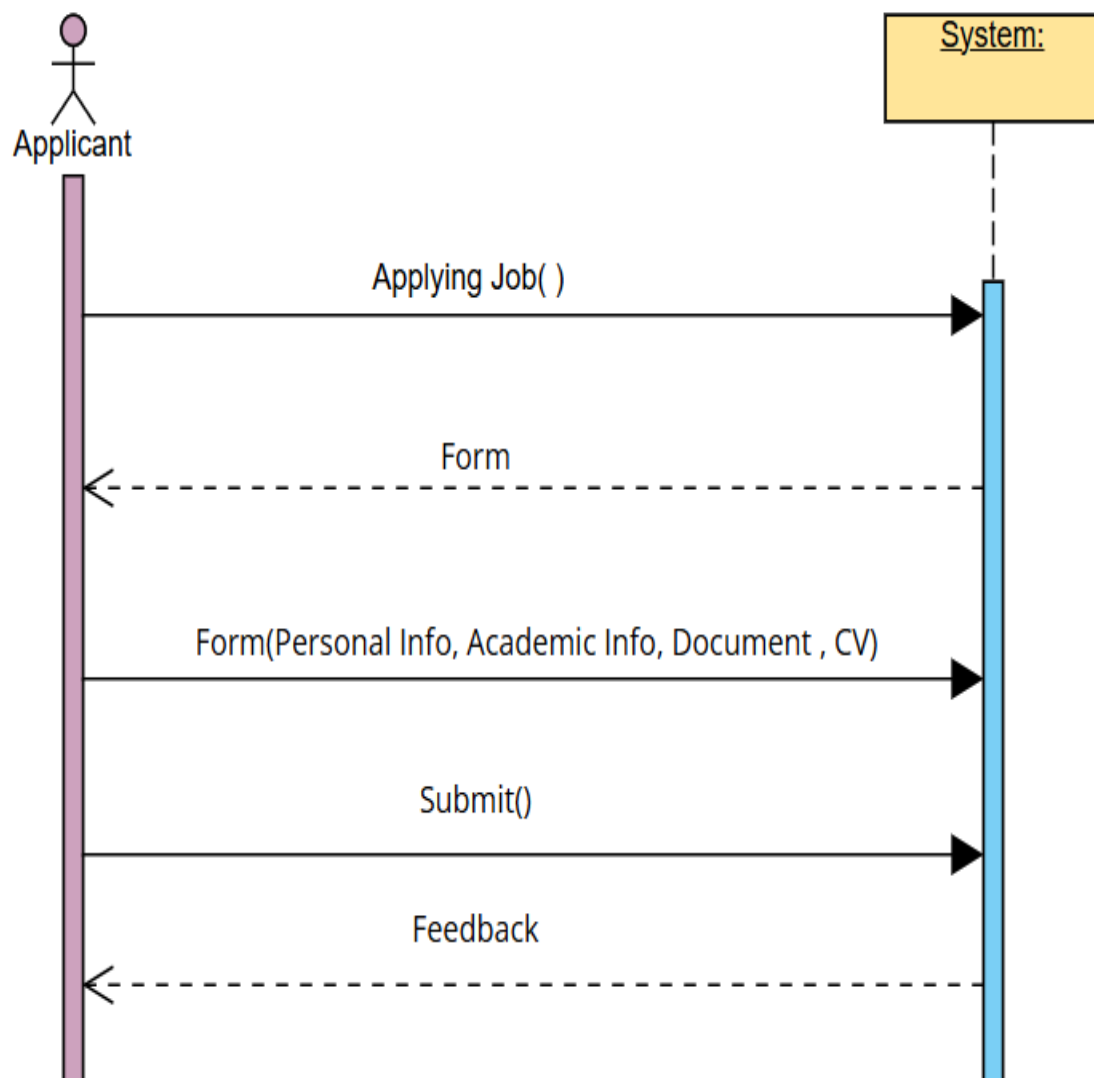BY: NAILA HABIB

UC 9: Shortlisting Candidates

BY: WAJEEHA KAMRAN

UC 3: Posting Job

BY: TAHA FAYYAZ

UC 6: Applying Job

4.2 Data Dictionary:

Data Element Name	Type	Definition	Data Type	Length / Size	Example	Conditions
Applicant Country	Data Element	Applicants' country where they are living.	String	15	Herzegovina	Applicant Country must be in string format and its length must be less than 16 characters.
Applicant Description	Data Element	Brief Description of applying applicants that should be related to skills.	String	100	My Name is Taha Fayyaz, I am Applying for Junior Android Development Post.	Applicant Description should be in string format, and it must be less than 101 characters.
Applicant Email	Data Element	Email address of applicant.	String	30	wajeeha081@gmail.com	Applicant Email must be in string, have @, .com, Gmail, and must be less than 31 characters.
Applicant First Name	Data Element	First Name of the Applicant.	String	10	Wajeeha	First Name should be string, and its length must be less than 10 and

						greater than 0.
Applicant Gender	Data Element	Gender of the Applicant.	String	7	Female	It should be in string format, and it must be of less than 8 characters.
Applicant Last Name	Data Element	Last Name of the Applicant.	String	10	Kamran	Last Name should be string, and its length must be less than 10 and greater than 0.
Applicant Location	Data Element	Location where applicants are living.	String	13	Rawalpindi	Location must be in string form and its length must be less than or equal to 13 characters.
Applicant Password	Data Element	Password for logging in and registering in the app for Applicants.	String	12	Tf701@2004	Password should be string, contain alphanumeric characters and must be greater than 0 and less than 13.
Applicants contact Number	Data Element	Phone number of applicants for contacting.	Integer	11	03335965010	Applicant contact number must be in integer format and

						its length must be equal to 11 integers.
Area of interest of applicant	Data Element	The field in which applicant is applying for a job.	String	22	Android Development	Area of interest of applicant should be in string, and must be less than 23 characters.
Certificates	Data Element	Documents of the applicant's qualificatio n.	PDF	5-20 KB	python.pdf	Certificates should be in PDF format and its size must be less than 21 KB.
College Degree	Data Element	PDF file containing college level degree of applying applicant.	PDF	5-25 KB	taha_college_degree.pdf	It should be in PDF format; the size should be less than 26 KB.
College Grade	Data Element	The grade achieved by the applicant in the college.	String	2	A-	Grade must be in string format and its length must be less than or equal to 2 characters.
College Name	Data Element	Name of the applicant's college.	String	24	Quaid-e-Azam University	College Name must be in string form and its length must be less than 25 characters.

Company Description	Data Element	Company description who has posted the job.	String	200		The company Description should be in string format, and it should be less than 201 characters.
Company Email	Data Element	Email address of applicant.	String	30	eliteTG101@gmail.com	Company Email must be in string, have @, .com, Gmail, and must be less than 31 characters.
Company Location	Data Element	Location of Job posted by Company.	String	13	Karachi	It should be in string format, and it must be less than 14 characters.
Company Name	Data Element	Name of the Company who has posted the job.	String	15	Elite TG	Company Name should be string, and its length must be less than 16 and greater than 0.
Company Password	Data Element	Password for logging in and registering in the app for	String	12	TG101@8004	Password should be string, contain alphanumeric characters and must be greater than

		Companies.				0 and less than 12.
Company Schedule	Data Element	Schedule available for interview provided by the company.	String	5-20 KB	Tuesday 9:05 AM – 5:20 PM	The company Schedule must be in PDF format and its size must be less than or equal to 20 KB.
Current Year of Course	Data Element	Current year of applicant's course of study.	Integer	1	4	Current Year of Course must be in integer and its length must be 1.
CV	Data Element	Required information from applicants that is needed for applying for a related job.	PDF	5-25 KB	taha_CV.pdf	CV should be in PDF format and its size must be less than 26 KB.
Experience Certificate	Data Element	For confirmation of applicant's previous job experience.	PDF	5-20 KB	Mobilink_Certificate.pdf	It should be in PDF format; size must be less than 21 KB.
Feedback	Data Element	System provides updates so that the user is updated	String	80	Job is Posted Successfully.	It should be in a string format, length must be less than 81 characters.

		about anything.				
Grade of Highest Qualification	Data Element	Applicants' highest qualification grade.	String	2	A-	It should be in string and only has a maximum of 2 characters.
Highest Academic Qualification	Data Element	Applicants' highest qualification.	String	28	MPHIL in Computer Science	It should be in string format, must be less than 29 characters.
Job Deadline	Data Element	Last date of submitting application for job by applicant.	Date	10	21/12/2024	Job Deadline should be in date format and its size must be 10 characters.
Job Description	Data Element	Brief Description of the posted job by the Company.	String	100	Junior android developer needed who will be assisted by our main developers with 2 years' experience.	It should be in string format, and it must be less than 101 characters.
Job Title	Data Element	Title of the job posted by the company.	String	20	Android Developer	It should be in string format, and it must be less than 21 characters.
Job Type	Data Element	Field in which Job is posted by the Company.	String	22	Data Science	Job Type should be in string, must be less than 23 characters.

University Degree	Data Element	PDF file containing university level degree of applying applicant.	PDF	5-25 KB	taha_university_degree. pdf	It should be in PDF format; the size should be less than 26 KB.

Data Structures:

Job post:

Job_post= job_id + job_description + job_title + job_type + job_deadline.

Academic Information:

Academic_information= college_name + college_grade + highest_academic_qualification + grade_of_highest_academic_qualification + current_year_of_course + domain_for_job_applying.

Personal Information:

Personal_information = applicants_name + applicants_id + applicants_email + applicants_contact_no + applicants_job_domain.

Company:

Company= company_id + company_name + company_email + company_location + company_description + company_password.

Applicant:

Applicant= applicant_first_name + applicant_last_name + applicant_id + applicant_email + applicant_contact_number + applicant_password + applicant_area_of_interest.

Shortlisting Candidates:

Shortlisted_applicants= applicants_skills + applicants_experience + applicants_education + applicants_cv.

Scheduling Interviews:

Scheduling_interview= applicants_skills + applicants_experience + applicants_education + applicants_cv + company_schedule.

Documents:

Documents = college_degree + university_degree + certificates + experience_certificates + cv.

4.3 Domain Model