Project: AI Resume Parser

**Team Members:**  Adriana Altamirano, Anya Carr, Molisha Khosla, Joshua Roasa

Phase 3 Analysis

**Purpose**: Describe your analysis by creating use cases and data flow diagrams.

*Please be reminded that the use diagram is to describe the functionalities/requirements of your system and the data flow diagram is to depict the data conversion between processes and the external entities.*

* The analysis phase is going to establish a **logical model of your system -** the functions/system requirements of your application. You need to specify **what** functions your system can offer, not **how** the system is implemented.

**Instruction:** According to your system planning documents, draw use case diagrams for the system that you proposed in Phase I&2.

1. The use case diagram should have "includes" and "extends" links when necessary. You need to provide a description/explanation for each use case and the diagram.
   1. For example, a Login use case: The user needs to provide login credentials such as email and pass to be verified as a valid user.

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1. Completed Identify Use Cases for the System **Completed by: Team**
2. Completed Create Use Case descriptions with its attributes
   1. Completed UC 1: Apply Job A **Completed By: Anya**
   2. Completed UC 2: Log in A/R  **Completed By: Anya**
   3. Completed UC 3: Log Out A/R  **Completed By: Molisha**
   4. Completed UC 4: Add Job Information R **Completed By: Joshua**
   5. Completed UC 5: Review Resume R  **Completed By: Adriana**
   6. Completed UC 6: Search Keywords A **Completed By: Adriana**
   7. Completed UC 7: Filter Work Model A **Completed By: Molisha**
   8. Completed UC 8: Enter Basic Information A **Completed By: Joshua**
   9. Completed UC 9: Update Job Information R **Completed By: Joshua**
   10. Completed UC 10: Upload Resume A **Completed By: Molisha**
   11. Completed UC 11: Add Keywords R **Completed By: Anya**
   12. Completed UC 12: Close Jobs R **Completed By: Adriana**
   13. Completed UC 13: Create Account A/R **Completed By: Anya**
   14. **UC 14: update profile**
3. Under review Use Case Diagram
   1. Use Case Diagram LucidChart Link:
      1. <https://lucid.app/lucidchart/6c827221-3418-4f15-9021-ae5cfcb26a4b/edit?viewport_loc=171%2C-199%2C1480%2C660%2C0_0&invitationId=inv_7724d15c-9e9c-4bd2-a3b2-54639679a7c3>
4. Not Started Use Case Diagram Description

ADDED UPDATE PROFILE AND REVIEW APPLICATION FOR APPLICANT

# **Use Case Sample**

* ID:#UC-0001
* Description: Gym members are allowed to add a potential member to their membership for an additional membership charge.
* Level: low, medium, high level
* Primary Actor: Gym Member
* Pre-Conditions:
  + Must be an established gym member.
  + Gym members must be logged in to make changes to their membership (additional authentication might be required).
  + Gym members may not add more than 4 members (excluding themselves).
* Post Conditions:
  + Members are added or removed to the gym member’s membership. The Gym Management system is updated to reflect member change to their membership.
  + Gym members are unable to add or remove a member from their membership. Gym management system remains unchanged.
  + For Adding or Removing a member, minimal guarantee could be, gym member is logged out of the Gym system. This minimum guarantee ensures that the system will ensure that no unauthorized transactions can be made from the add/remove tab in the gym system thus protecting the interest of the Gym as well as the Gym’s stakeholders.
* Main Scenario:

Sample

1. Create reservation:

* A user or admin creates a reservation for a car rental.
* Preconditions:
  + The user or admin must select a car and rental dates.
* PostCondition:
  + The user or admin has confirmed reservations for the car rental.

# **Use Case Resource (CHATGPT GUIDE)**

* Primary Actor: The primary actor is the entity (a person, system, or external entity) that initiates the use case. It's the actor that interacts with the system to achieve a specific goal.
* Description: This section provides a brief overview or summary of the use case, describing what it achieves or what problem it solves. It gives readers an understanding of the purpose of the use case.
* Pre-condition: This describes the state or condition that must be true before the use case can be executed. It outlines any prerequisites or requirements that need to be met for the use case to begin.
* Post-condition: This describes the state or condition that will be true after the successful execution of the use case. It outlines the expected outcome or changes that occur as a result of the use case being completed.
* Main Scenario: This section outlines the step-by-step sequence of actions performed by the primary actor and the system to accomplish the goal of the use case. It provides a detailed narrative of how the use case unfolds, including any interactions between the actor and the system.

# **List of Use Cases:**

Actors of System: Applicant, Recruiter and AI

Include = required

Extends = optional/options

1. **Apply Job** (Anya)
   1. Include enter basic information
   2. Include Upload Resume
2. **Log In (Recruiter) (Anya)**
3. **Log Out (Recruiter) (molisha)**
4. **Add Job Information ( Recruiter ) (Joshua)**
   1. Extend Update Job Information (Recruiter)
   2. Include Add keywords (Recruiter)
   3. Extend Close Job (Recruiter)
5. **Review Resume (Recruiter)** Adriana
6. **Search Keywords [textbox] (Applicant)** Adriana
7. **Filter Work Model (Molisha)**

a.Extend Location: Onsite, Hybrid, Remote

1. **Enter Basic Information (Joshua)**
2. **Update Job Information (Joshua)**
3. **Upload Resume (Molisha)**
4. **Add Keywords (Anya)**
5. **Close Jobs (Adriana)**
6. **Create Account**
7. **Update profile**

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## **Use Case #1**

### Use Case Name: **Apply Job**

* ID:# AI01
* Description: Applicants will enter their basic information such as First Name, Last Name, Phone Number and Email to set up a profile. Then applicants will upload their resume.
* Level: High
* Primary Actor: Applicant
* Pre-condition:
  + Must have a resume compatible with the following types: PDF, docx
* Post-condition:
  + Applicant basic information and resume is stored in a database.
* Main Scenario:
  + User enters basic information in a form
  + User uploads resume

## **Use Case #2**

### Use Case Name: **Log in**

* ID:# A102
* Description: Actors will log in into the system using their username and password.
* Level: High
* Primary Actor: Recruiter, Applicant
* Pre-condition:
  + Must have existing account before using Create Account
  + Must click Log in
* Post-condition:
  + Actors gain access to system to Add Job functions
* Main Scenario:
  + Actors enter the correct username and password.
  + Actors are logged in

## **Use Case #3**

### Use Case Name: **Log Out**

* ID:# AI03
* Description: Actors will click on their profile and hit log out at the bottom
* Level: High
* Primary Actor: Recruiter, Applicant
* Pre-condition: Must be logged in
* Post-condition: Actors won’t have any access to the system
* Main Scenario: Actors are logged out of the system

## **Use Case #4**

### Use Case Name: **Add Job Information**:

* ID:# AI04
* Description: This use case allows a Recruiter to add job information to the system, enabling them to manage and update job postings.
* Level: High-Level
* Primary Actor: Recruiter
* Pre-condition: The Recruiter is authenticated and has access permissions to add job information.
* Post-condition: The job information is successfully added to the system and is available for further management.
* Main Scenario:

1. The Recruiter selects the option to add job information in the system.
2. The system presents a form or interface for the Recruiter to input job details such as title, description, requirements, key words they are looking for in the applicant's resume and other relevant information.
3. The Recruiter fills out the required fields with the job information.
4. The system validates the input and saves the job information to the database.
5. The Recruiter confirms the submission.
6. The system displays a confirmation message indicating that the job information has been successfully added.

* Extensions:

1. Update Job Information: If the Recruiter needs to update the job information after adding it, they can use the "Update Job Information" use case.
2. Add Keywords: To enhance searchability and categorization, the Recruiter can use the "Add Keywords" use case to associate relevant keywords with the job information.
3. Close Job: Once a job posting is no longer available or filled, the Recruiter can use the "Close Job" use case to mark it as closed in the system.

## **Use Case #5**

### Use Case Name: **Review Resume**

ID:# AI05

* Description: This use case involves the process of a recruiter reviewing an applicant’s resume within the recruitment system to assess their qualifications for a job position.
* Level: High
* Primary Actor: Recruiter
* Pre-condition: The applicant must be logged into the recruitment system and have access to the applicant’s resume.
* Post-condition: The recruiter completes reviewing the applicant’s resume and can have the option to place the applicant’s resume in the Accepted or Rejected buckets.
* Main Scenario:
  + Recruiter logs into the recruiter system account using their credentials.
  + Recruiter navigates to the review resume button.
  + System displays the applicant’s resume, paying attention to the candidate’s qualifications, skills, experience and any other relevant information.
  + If necessary, the recruiter may take notes or market specific sections of the resume for further consideration or discussion.
  + Recruiter evaluates the candidate’s resume based on the job requirements and criteria set by the hiring team.
  + After completing the review, the recruiter has the option to place the applicant’s resume in the Accepted or Rejected buckets based on their evaluation.
  + If the candidate’s resume is placed in the Rejected bucket, the recruiter may provide feedback to the candidate or simply move on to review other applicants.
  + System records the recruiter’s decision and updates the candidate’s status in the recruitment process accordingly.

## **Use Case #6**

### Use Case Name: **Search Keywords**

* ID:# AI06
* Description: This use case involves the process of applicants searching for specific job postings using keywords on the website.
* Level: High
* Primary Actor: Applicant
* Pre-condition: The applicant is on the website's job search page.
* Post-condition: The system displays job postings matching the specified keywords.
* Main Scenario:
  + The applicant navigates to the job search page on the website.
  + The system presents the applicant with a search bar or input field to enter keywords.
  + The applicant enters one or more keywords relevant to the desired job title or description, such as "software engineer."
  + The system processes the keyword input and searches through the database of job postings.
  + The system retrieves job postings containing the specified keywords and displays them to the applicant.
  + The applicant reviews the search results to find relevant job postings matching their criteria.

## **Use Case #7**

### Use Case Name: **Filter Work Model**

* + - ID:# AI07
    - Description: Users are able to filter out the job they want to apply with an option of remote, onsite, or hybrid
    - Level: High-level
    - Primary Actor: Applicant, Recruiter
    - Pre-condition: user is on search page and is able to filter results
    - Post-condition: the system displays the results selected by the user
    - Main Scenario:

1. User clicks the filter option
2. User can select their preference
3. User can click apply after and view selective options

## **Use Case #8**

### Use Case Name: **Enter Basic Information**

* + - ID:# AI08
    - Description: This use case involves entering basic information such as name, last name, email, and phone number. When the users try applying for a job.
    - Level: High-level
    - Primary Actor: Applicant
    - Pre-condition: User need to click the Apply button in order for the prompt to show.
    - Post-condition: The basic information is properly entered in the system.
    - Main Scenario:

1. The User clicks the Apply button for a job
2. A prompt appears asking for the required basic information such as first name, last name, phone number, and email.
3. The User fills out the required fields with their information.
4. The system validates the information. If any fields are missing or invalid, an error message is displayed.
5. The User confirms the submission.

## **Use Case #9**

### Use Case Name: **Update Job Information**

* + - ID:# AI09
    - Description: This use case allows a Recruiter to update job information in the system, enabling them to manage and modify existing job postings.
    - Level: High-level
    - Primary Actor: Recruiter
    - Pre-condition: The Recruiter is authenticated and has access permissions to update job information.
    - Post-condition: The job information is successfully updated in the system.
    - Main Scenario:

1. The Recruiter selects the option to update job information.
2. The system presents a list of existing job postings for the Recruiter to choose from.
3. The Recruiter selects the job posting they want to update.
4. The system displays the current details of the selected job posting along with options to edit.
5. The Recruiter makes the necessary updates to the job information.
6. The Recruiter confirms the update.
7. The system displays a confirmation message indicating that the job information has been successfully updated.

## **Use Case #10**

### Use Case Name: **Upload Resume**

* + - ID:# AI10
    - Description: In this use case applicant will upload a resume for AI to review and provide a feedback
    - Level: High
    - Primary Actor: Applicant
    - Pre-condition: required well-formatted resume as pdf or .docx file
    - Post-condition: applicant will receive a feedback from AI after uploading their result
    - Main Scenario:

1. Applicant clicks on upload resume
2. Dialogue box appears
3. Applicant selects their resume from the dialogue box
4. Upload the file

## **Use Case #11**

### Use Case Name: **Add Keywords**

* + - ID:# AI11
    - Description: The recruiter will add keywords about the job they crucially want. The AI will consider these keywords highly.
    - Level: High
    - Primary Actor: Recruiter
    - Pre-condition:
      * Recruiter must log in
      * Job must be added
      * Must be within a certain number of characters
    - Post-condition
      * Keywords for Job skills and qualifications are saved
    - Main Scenario:
      * Recruiter clicks Add Job Information
      * Recruiter clicks Add Keywords
      * Recruiter enters skills and qualifications.
      * Recruiter clicks submit.
      * Keywords are stored.

## **Use Case #12**

### Use Case Name: **Close Jobs**

* + - ID:# A12
    - Description: This use case involves the process of closing job postings by the recruiter once the positions have been filled or are no longer available.
    - Level: High
    - Primary Actor: Recruiter
    - Pre-condition: The recruiter must be logged into the system and have the necessary permissions to close the job posting(s).
    - Post-condition: The closed job postings are no longer visible to applicants and are marked as filled or closed in the system.
    - Main Scenario:

1. Recruiter logs into the system and navigates to the list of active job postings.
2. Recruiter selects the job postings they wish to close.
3. System prompts the recruiter to confirm the action.
4. Recruiter confirms the closure of the selected job posting(s).
5. System updates the status of the closed job postings, marking them as filled or closed.
6. Closed job postings are removed from the list of active job postings and are no longer visible to applicants.

## **Use Case #13**

### Use Case Name: **Create Account**

* + - ID:# A13
    - Description: Actors will create an account on our website.
    - Level: High
    - Primary Actor: Recruiter and Applicant
    - Pre-condition:
      * Recruiter must have access to platform’s registration page to enter first name, last name, email, strong password, phone number, company\_ID
      * Applicant must be on the website’s page to create account to enter first name, last name, email, strong password, phone number and upload pdf format file.
    - Post-condition:
      * Recruiter will have a recruiter account, opening them to access to other use cases like Add Job, Add Keywords, Update Job Information etc.
    - Main Scenario Recruiter :
      * Recruiter clicks Create Account
      * Recruiter enters first name, last name, email, strong password, phone number, and company\_ID
      * Recruiter hits the register button.
    - Main Scenario Applicant :
      * Applicant clicks Create Account
      * Applicant enters first name, last name, email, password, phone number and upload pdf format resume.
      * Applicant hits register button.

## **Use Case #14**

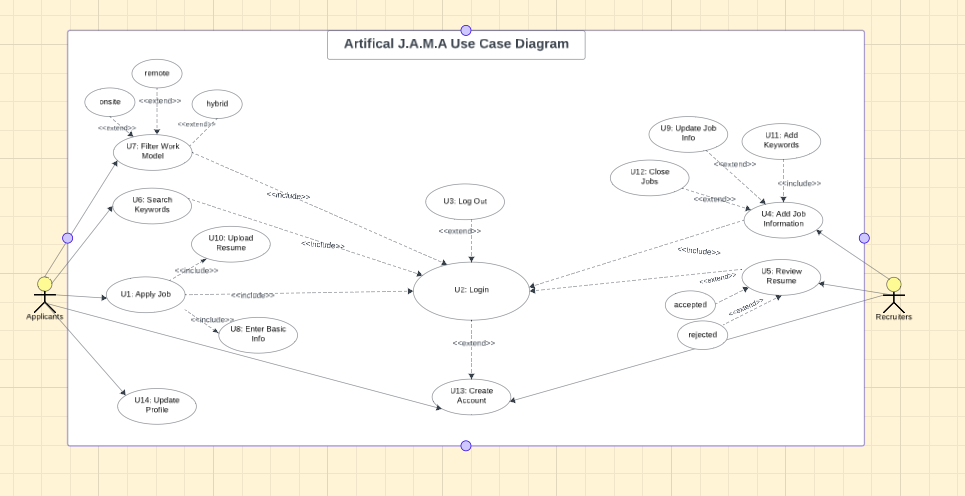
### Use Case Name: Update profile

* + - ID:# A14
    - Description: Applicant will be able to update their profile and any personal information.
    - Level: High
    - Primary Actor: Applicant
    - Pre-condition: applicant must have an account
    - Post-condition: N/A
    - Main Scenario Applicant:

Applicant will go to their profile.

1. Click on edit profile.
2. Click on email or phone number or profile picture to edit.
3. Click save and profile is updated.

# **Use Case Diagram**



LucidChart Link (Collaborative Workspace to create Use Case Diagram): <https://lucid.app/lucidchart/6c827221-3418-4f15-9021-ae5cfcb26a4b/edit?viewport_loc=171%2C-199%2C1480%2C660%2C0_0&invitationId=inv_7724d15c-9e9c-4bd2-a3b2-54639679a7c3>

# **Use Case Diagram Description**

### Applicants

Applicants can do 5 tasks: Log in, Filter Work Model, Search Keywords, Apply Job and Update Profile.

Applicants are **required** to Log in before they can Filter Work Model, Search Keywords, Apply Job and Update Profile.

Login allows Applicant to access the other functions in the AI Resume System.

Filter Work Model allows the applicant to filter the job postings through the nature of the job as in Remote, In-Person, and Hybrid.

Search Keywords allows the applicants to search for job postings through the keywords they select.

Apply Job allows applicants to Enter Basic Info and Upload Resume to set up a profile. After they select Apply Job, they are **required** to Enter Basic Info and Upload Resume.

Enter Basic Info allows applicants to enter their basic information such as First Name, Last Name, Phone Number and Email.

Upload Resume allows applicants to upload their resume.

### Recruiters

Recruiters can do 8 tasks: Login, Log out, Create Account, Add Job Information, Add Keywords, Review Resume, Update Job Info, and Close Jobs.

Recruiters are required to Login before they can Log out, Add Job Information, Add Keywords, Review Resume, Update Job Info, and Close Jobs.

Login allows Recruiter to access the other functions in the AI Resume System.

Log out allows Recruiter to log out of the system. This is **optional**.

Create Account allows Recruiter to create an account on the AI Resume System and get access to functions within the system. It is **optional** to create an account, in the case that the recruiter already has an existing account.

Add Job Information allows the Recruiter to add a job and its job details. This is **optional** right after login. It is **required** to Add Keywords. Recruiter also has the **option** to Update Job Information and Close Job.

Review Resume allows the Recruiter to review successful candidates’ resumes. They can organize them in the folders Accepted or Rejected.

# **Timeline**

**Timeframe:**

Software Development Life Cycle(SDLC):

**~~Phase 1 Planning ( Week 1) & Phase 2 Planning (Week 1 - Week 2)~~**

~~P1 Dates: January 29 - February 5~~

~~P2 Dates: January 29 - February 12~~

1. ~~Phase 1: Identifying Problems (Planning)~~
2. ~~Phase 2: Determine Human Information Requirements (Planning)~~

**Phase 3 Analysis (Week 2 - Week 3)**

Dates: February 5 - February 12

1. Analyzing system needs (Analysis)

**Phase 4 Design (Week 3 - Week 4)**

Dates: February 12 - February 19

1. Designing recommended system (Design)

**Phase 5 Implementation (Week 4 - Week 10)**

Dates: February 19 - April 1

1. Developing and Documenting Software (Implementation)

**Phase 6 Testing & Integration (Week 10 - Week 13)**

Dates: April 1 - April 22

1. Testing and Maintaining the system (Testing & Integration)

**Phase 7 Maintenance (Week 13 - Week 15)**

Dates: April 22 - May 6

1. Implementing and Evaluating the system (Maintenance)

**Resources;**

* **Use Case Diagram:**

[**https://lucid.app/lucidchart/6c827221-3418-4f15-9021-ae5cfcb26a4b/edit?page=0\_0#**](https://lucid.app/lucidchart/6c827221-3418-4f15-9021-ae5cfcb26a4b/edit?page=0_0#)

**Was Note Used**

Use Case Name: **Give feedback to applicant (PAUSED FOR NOW - DO NOT INCLUDE INTO USE CASE DIAGRAM YET ; WILL FOLLOW UP w Dr. Franke)**

* ID:# AI05
* Description: This use case involves the AI providing feedback to the applicant regarding any formatting issues or areas for improvement within their resume.
* Level: High
* Primary Actor: AI
* Pre-condition: The applicant must have submitted their resume first in order to parse and receive real-time feedback.
* Post-condition: The applicant receives actionable feedback from AI to enhance their resume.
* Main Scenario:
  + The AI receives the applicant's resume.
  + It identifies formatting issues and content gaps.
  + The AI generates personalized feedback.
  + Feedback is delivered to the applicant.
  + The applicant revises their resume.
  + The revised resume is resubmitted.
  + The AI re-evaluates and may provide additional feedback if needed.