# **SC2006 Software Engineering**



### Lab#2 Deliverables

## Lab Group FDAD Group Name: InternLink

| Group Members       |                   |
|---------------------|-------------------|
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|                     |                   |

InternLink - Use Case Description

Frequency Level: 1-Lowest, 2-Low, 3-Normal, 4-High, 5-Highest Priority Level: 1-Lowest, 2-Low, 3-Normal, 4-High, 5-Highest

| Use Case ID:   | USER_UC_1           |                    |             |
|----------------|---------------------|--------------------|-------------|
| Use Case Name: | Choose Role: Job Se | eker or Employer   |             |
| Created By:    | Ewen Cheung         | Last Updated By:   | Ewen Cheung |
| Date Created:  | 19 Feb 2025         | Date Last Updated: | 20 Feb 2025 |

| Actor:             | User  |
|--------------------|---|
| Description:       | When users access the website, they are prompted to choose whether they want to continue as a Job Seeker or an Employer. Their selection determines which authentication page (Sign-In or Sign-Up) they are redirected to.  |
| Preconditions:     | <ol> <li>The user has accessed the website.</li> <li>The user is not yet authenticated.</li> </ol>  |
| Postconditions:    | The user is redirected to the appropriate authentication page (Job Seeker or Employer).   |
| Priority:          | 5   |
| Frequency of Use:  | 5   |
| Flow of Events:    | <ol> <li>The user accesses the website.</li> <li>The system displays a selection screen with options:         "Continue as Job Seeker" or "Continue as Employer."</li> <li>The user selects one of the two options.</li> <li>The system redirects the user to the appropriate authentication page (Sign-In/Sign-Up).</li> </ol> |
| Alternative Flows: | AF-1a: User selects the wrong option  1. The system provides a back button or a toggle to allow the user to switch roles.   |
| Exceptions:        | E-1: System fails to load the selection page  |

|                          | The system displays an error message and prompts the user to retry.                       |
|--------------------------|---|
| Includes:                | User authentication (Sign-Up or Sign-In).   |
| Extends:                 | Role selection persistence (system remembers the last selected role for returning users). |
| Special<br>Requirements: | The selection page should be responsive and load quickly.                                 |
| Assumptions:             | Users have a stable internet connection.  |
| Notes and Issues:        | Consider adding a "Remember my selection" option for returning users.                     |

| Use Case ID:   | USER_UC_2   |                    |             |
|----------------|-------------|--------------------|-------------|
| Use Case Name: | Messages    |                    |             |
| Created By:    | Ewen Cheung | Last Updated By:   | Ewen Cheung |
| Date Created:  | 19 Feb 2025 | Date Last Updated: | 20 Feb 2025 |

| Actor:             | User  |
|--------------------|---|
| Description:       | Users can communicate via an in-app messaging system.  Messages can only be sent under specific conditions to prevent spam.   |
| Preconditions:     | The user is logged into their account.     The user navigates to the "Messages" section.  |
| Postconditions:    | <ol> <li>A message is successfully sent or saved as a draft.</li> <li>The recipient receives a notification of a new message.</li> </ol>  |
| Priority:          | 3   |
| Frequency of Use:  | 4   |
| Flow of Events:    | <ol> <li>The user clicks the "Messages" button in the navigation bar.</li> <li>The system displays a list of recent conversations and a search bar to find contacts.</li> <li>The user selects a recipient.</li> <li>The user types a message in the chat box.</li> <li>The user clicks "Send."</li> <li>The system delivers the message and notifies the recipient.</li> </ol> |
| Alternative Flows: |   |
| Exceptions:        | E-1: Message fails to send  1. The system displays an error message and allows the user to retry.   |
| Includes:          | Message validation and spam protection.   |

| Extends:                 | <ol> <li>Read receipts (to track when messages are read).</li> <li>Draft messages (If the user loses internet connection before sending, the message is saved as a draft).</li> <li>Restricting messages after three attempts (If the recipient has not responded to the last three messages, the sender is restricted from sending additional messages until a reply is received).</li> <li>Blocking users (If blocking is implemented, users will not be able to send messages to blocked contacts).</li> <li>Reporting messages (Allowing users to report inappropriate messages for admin review).</li> </ol> |  |
|--------------------------|---|--|
| Special<br>Requirements: | The system should provide a smooth and responsive chat experience.  |  |
| Assumptions:             | Users are aware of the messaging restrictions.  |  |
| Notes and Issues:        | Consider implementing an admin review for reported messages in future versions.   |  |

| Use Case ID:   | USER_UC_3   |                    |             |
|----------------|-------------|--------------------|-------------|
| Use Case Name: | Settings    |                    |             |
| Created By:    | Ewen Cheung | Last Updated By:   | Ewen Cheung |
| Date Created:  | 19 Feb 2025 | Date Last Updated: | 20 Feb 2025 |

| Actor:                   | User  |  |
|--------------------------|---|--|
| Description:             | The settings page allows users to adjust preferences and log out.   |  |
| Preconditions:           | The user is logged into their account.  |  |
| Postconditions:          | The user successfully logs out and is redirected to the role selection page.  |  |
| Priority:                | 2   |  |
| Frequency of Use:        | 4   |  |
| Flow of Events:          | <ol> <li>The user clicks the "Settings" button.</li> <li>The system displays a dropdown menu with available options.</li> <li>The user selects "Log Out."</li> <li>The system logs the user out and redirects them to the role selection page.</li> </ol> |  |
| Alternative Flows:       | AF-3a: User cancels logout  1. The settings menu closes with no action taken.   |  |
| Exceptions:              | E-1: Logout request fails  1. The system displays an error message and prompts the user to retry.   |  |
| Includes:                | Logout functionality.   |  |
| Extends:                 | Additional settings (e.g., font-size, language preferences).  |  |
| Special<br>Requirements: | Users want a quick way to access logout options.  |  |

| Assumptions:      | Users are familiar with the settings menu.                       |  |
|-------------------|--|--|
| Notes and Issues: | Consider adding more settings, such as notification preferences. |  |

| Use Case ID:   | USER_UC_4             |                    |             |
|----------------|-----------------------|--------------------|-------------|
| Use Case Name: | Create Account for Jo | ob Seeker          |             |
| Created By:    | Ewen Cheung           | Last Updated By:   | Ewen Cheung |
| Date Created:  | 19 Feb 2025           | Date Last Updated: | 22 Feb 2025 |

| Actor:            | User   |  |
|-------------------|--|--|
| Description:      | A new Job Seeker/Employer can create an account by providing the required details. Email verification is required for account activation.  |  |
| Preconditions:    | <ol> <li>The user selects a role.</li> <li>The provided email is not already linked to an existing account.</li> <li>The password meets security requirements: at least 8 characters, 1 special character, and mixed-case letters.</li> </ol>  |  |
| Postconditions:   | <ol> <li>A new Job Seeker/Employer account is created and<br/>stored in the database.</li> <li>An OTP is sent to the user's email for additional<br/>verification.</li> </ol>  |  |
| Priority:         | 4  |  |
| Frequency of Use: | 4  |  |
| Flow of Events:   | <ol> <li>The system displays an empty registration form.</li> <li>The user enters their Display Name, Email, Password, and Confirm Password.</li> <li>The user submits the registration form.</li> <li>The system validates the provided details.</li> <li>The system checks for duplicate email.</li> <li>The system creates a Job Seeker/Employer account and stores the information.</li> <li>The system sends a One-Time Password (OTP) to the user's email.</li> <li>The user enters the OTP for verification.</li> </ol> |  |

| Alternative Flows:       | 9. Upon successful verification, the user is logged into their account.  10. The system redirects the user to the main landing page.  AF-1a: Email Already Linked   |  |
|--------------------------|---|--|
|                          | <ol> <li>The system displays an error message: "This email is already linked to an account. Please log in instead."</li> <li>AF-1b: Password Does Not Meet Security Requirements</li> <li>The system prompts the user to enter a stronger password that meets the security requirements.</li> <li>AF-1d: Invalid Email Format</li> <li>The system displays an error message: "Invalid email address. Please enter a valid email."</li> <li>AF-1e: Wrong OTP Entered</li> <li>The user is allowed up to 3 attempts before needing to request a new OTP.</li> </ol> |  |
| Exceptions:              | E-1: Email OTP Expired  1. The user must request a new OTP. E-2: OTP Not Received  1. The user can request a resend after a 30-second cooldown period.  |  |
| Includes:                | Account validation.     Email verification.   |  |
| Extends:                 | <ol> <li>Allow Sign-Up using Google, Apple, and SingPass</li> <li>Add CAPTCHA to prevent bot sign-ups</li> <li>Phone number and verification of OTP is needed while sign-up</li> </ol>  |  |
| Special<br>Requirements: | <ol> <li>Passwords must contain at least 8 characters, 1 special character, and mixed-case letters.</li> <li>Users must verify their email before accessing full account features.</li> </ol>   |  |
| Assumptions:             | Users have access to their email for verification.  |  |
| Notes and Issues:        | Consider multi-factor authentication (MFA) in future versions.  |  |

| Use Case ID:   | USER_UC_5      |                    |             |
|----------------|----------------|--------------------|-------------|
| Use Case Name: | Login for User |                    |             |
| Created By:    | Ewen Cheung    | Last Updated By:   | Ewen Cheung |
| Date Created:  | 19 Feb 2025    | Date Last Updated: | 22 Feb 2025 |

| Actor:             | User  |  |  |
|--------------------|---|--|--|
| Description:       | A Job Seeker/Employer can log in to their account using their registered email and password. Security measures are in place to prevent unauthorized access.   |  |  |
| Preconditions:     | <ol> <li>The user has an existing Job Seeker/Employer account.</li> <li>The email and password entered match an account in the system.</li> </ol>   |  |  |
| Postconditions:    | <ol> <li>The system successfully authenticates the user.</li> <li>The user is redirected to the main landing page.</li> </ol>   |  |  |
| Priority:          | 4   |  |  |
| Frequency of Use:  | 5   |  |  |
| Flow of Events:    | <ol> <li>The system displays the login page.</li> <li>The user enters their email and password.</li> <li>The user submits the login request.</li> <li>The system validates the credentials.</li> <li>If valid, the system redirects the user to the main landing page.</li> </ol> |  |  |
| Alternative Flows: | AF-2a: Invalid Email  1. The system displays an error message: "Email not found. Please try again or create an account."  AF-2b: Invalid Password  1. The system displays an error message: "Incorrect password. Please try again."   |  |  |

|                          | AF-2c: Missing Fields  1. The system displays an error message: "Please fill in all required fields."  AF-2d: Maximum Login Attempts Exceeded  1. If the user enters incorrect credentials 5 times within 3 minutes, the system locks the account for 30 minutes. |  |
|--------------------------|---|--|
| Exceptions:              | E-1: Account Locked  1. The system displays an error message: "Too many failed attempts. Please try again later."   |  |
| Includes:                | Validate user credentials.  |  |
| Extends:                 | <ol> <li>Forgot Password (Users can reset their password if they forget it).</li> <li>Social Login (Users can log in via Google, Apple, or SingPass).</li> </ol>  |  |
| Special<br>Requirements: | Passwords must be securely hashed and stored.   |  |
| Assumptions:             | The user is using a compatible browser/device.  |  |
| Notes and Issues:        | Consider implementing an option to "Stay logged in" with a secure session.  |  |

| Use Case ID:   | JOBSEEKER_UC_1                           |                    |             |
|----------------|--|--------------------|-------------|
| Use Case Name: | Edit Profile                             |                    |             |
| Created By:    | Ewen Cheung Last Updated By: Ewen Cheung |                    |             |
| Date Created:  | 19 Feb 2025                              | Date Last Updated: | 20 Feb 2025 |

| Actor:             | User  |  |
|--------------------|---|--|
| Description:       | A Job Seeker can update profile details, including Display Name, Birthday, Profile Picture, Resume, Email, and Password. Certain fields require verification before changes are applied.  |  |
| Preconditions:     | <ol> <li>The user is logged into their account.</li> <li>The user has an existing Job Seeker profile in the system.</li> </ol>  |  |
| Postconditions:    | The system updates the user's profile with the new information.   |  |
| Priority:          | 3   |  |
| Frequency of Use:  | 4   |  |
| Flow of Events:    | <ol> <li>The user clicks the "Edit Profile" button.</li> <li>The system displays the editable profile fields.</li> <li>The user modifies their details.</li> <li>The user clicks "Save Changes."</li> <li>The system validates the updated information.</li> <li>If valid, the system updates the profile.</li> </ol> |  |
| Alternative Flows: | AF-3a: Update Email Address (Requires OTP Verification)  1. The user enters a new email address.  2. The system validates the email format.  3. The system sends a OTP to the new email.  4. The user enters the OTP.  5. The system validates the OTP.  a. a) If OTP is correct, the system updates the email.       |  |

|                          | b. b) If OTP is incorrect, the system prompts the  |
|--------------------------|--|
|                          | user to try again.   |
|                          | AF-3b: Change Password (Requires Old Password Verification)  1. The user clicks "Change Password."  2. The system displays three input fields:  Old Password  New Password   |
|                          | Confirm New Password   |
|                          | 3. The user enters their old password.   |
|                          | <ul> <li>4. The system validates the old password.</li> <li>5. The user enters a new password that meets security requirements (at least 8 characters, 1 special character, mixed case letters).</li> <li>6. The system checks if "New Password" and "Confirm New Password" match.</li> <li>7. If valid, the system updates the password.</li> </ul>   |
| Exceptions:              | E-1: User enters incorrect old password  1. The system displays an error message: "Incorrect old password. Please try again."  |
|                          | E-2: Email OTP expired  2. The system prompts the user to request a new OTP.   |
| Includes:                | Profile validation.  |
| Extends:                 | <ol> <li>Set Password for Social Login Users</li> <li>If a user signed up using Google, Apple, or SingPass, the password fields will be empty.</li> <li>When they click "Set Password," only two fields (New Password, Confirm New Password) will be displayed instead of requiring an old password.</li> <li>The system validates the new password and updates the account.</li> <li>Update Phone Number (Requires OTP Verification)</li> </ol> |
| Special<br>Requirements: | The system should ensure data validation and security measures for profile updates.  |

| Assumptions:      | Users have access to their email for OTP verification.           |  |
|-------------------|--|--|
| Notes and Issues: | Consider allowing profile visibility settings for added privacy. |  |

| Use Case ID:   | JOBSEEKER_UC_2                           |                    |             |
|----------------|--|--------------------|-------------|
| Use Case Name: | Find Job                                 |                    |             |
| Created By:    | Ewen Cheung Last Updated By: Ewen Cheung |                    |             |
| Date Created:  | 19 Feb 2025                              | Date Last Updated: | 20 Feb 2025 |

| Actor:            | User(JobSeeker)  |  |  |
|-------------------|--|--|--|
| Description:      | A Job Seeker can browse job listings (internship/ad hoc), view job descriptions, and submit applications.  |  |  |
| Preconditions:    | <ol> <li>The user is logged into their account.</li> <li>The user has completed their profile.</li> <li>The user is on the "Find Interview" or "Find Ad Hoc" page.</li> </ol>  |  |  |
| Postconditions:   | <ol> <li>The Job Seeker can apply for jobs, save jobs, and view job details.</li> <li>If an application is submitted, the employer receives the job application.</li> </ol>  |  |  |
| Priority:         | 5  |  |  |
| Frequency of Use: | 5  |  |  |
| Flow of Events:   | <ol> <li>The Job Seeker accesses the "Find Internship" / "Find Ad Hoc" page.</li> <li>The system displays a list of recommended job postings based on the Job Seeker's profile.</li> <li>The Job Seeker can save interesting jobs for later review.</li> <li>The user can click "View Details" on a job listing.</li> <li>The system displays the job description, location, and application options.</li> <li>The user clicks "Apply Now."</li> <li>The system allows the user to:         <ul> <li>Submit a default resume</li> <li>Upload a new resume</li> </ul> </li> </ol> |  |  |

|                          | Send a short message to the employer  |  |  |
|--------------------------|---|--|--|
| Alternative Flows:       | <ol> <li>AF-4a: Job No Longer Available         <ol> <li>The employer has removed the job listing.</li> </ol> </li> <li>The system displays an error message: "This job is no longer available."</li> </ol> <li>AF-4b: Resume Not Uploaded or No Message Provided         <ol> <li>The system prompts: "You must upload a resume or send a message to apply."</li> </ol> </li> <li>AF-4c: Multiple Applications to the Same Job         <ol> <li>If the user already applied for the job, the system displays: "You have already applied for this job."</li> </ol> </li> <li>The system prevents duplicate applications.</li> |  |  |
| Exceptions:              | E-1: Application submission failure  1. The system displays an error message and allows the user to retry.  |  |  |
| Includes:                | Job application submission  |  |  |
| Extends:                 | Application Tracking (Users can view their past job applications).  |  |  |
| Special<br>Requirements: | The page must be responsive and provide a smooth user experience  |  |  |
| Assumptions:             | Users have internet access while searching for jobs.  |  |  |
| Notes and Issues:        | Consider implementing job alerts based on user preferences.   |  |  |

| Use Case ID:   | JOBSEEKER_UC_3                           |                    |             |
|----------------|--|--------------------|-------------|
| Use Case Name: | Search and Filter                        |                    |             |
| Created By:    | Ewen Cheung Last Updated By: Ewen Cheung |                    |             |
| Date Created:  | 19 Feb 2025                              | Date Last Updated: | 20 Feb 2025 |

| Actor:             | Job Seeker   |  |
|--------------------|--|--|
| Description:       | A Job Seeker can refine job searches using filters such as job title, location, salary range, period, course-related jobs, post date, and year of study.   |  |
| Preconditions:     | The user is on the "Find Internship" or "Find Ad Hoc" page.  |  |
| Postconditions:    | The system displays job results that match the search criteria.  |  |
| Priority:          | 4  |  |
| Frequency of Use:  | 5  |  |
| Flow of Events:    | <ol> <li>The Job Seeker clicks the "Filter" button to view filter options.</li> <li>Available filters include:         <ul> <li>Job Title</li> <li>Location</li> <li>Salary Range</li> <li>Internship Period</li> <li>Course-Related Jobs</li> <li>Post Date</li> <li>Year of Study</li> </ul> </li> <li>The user selects the desired filters and clicks "Search."</li> <li>The system displays a list of filtered job postings.</li> <li>The user can sort results by:         <ul> <li>Date posted</li> <li>Salary range</li> <li>Internship period</li> </ul> </li> </ol> |  |
| Alternative Flows: | AF-5a: No Job Listings Found  1. The system displays: "No results found. Try adjusting   |  |

|                          | your filters."   |
|--------------------------|--|
| Exceptions:              | E-1: System fails to load job postings  1. The system displays an error message. |
| Includes:                | Job search and filtering functionality.  |
| Extends:                 | Save Search Preferences (User can save filters for future searches).             |
| Special<br>Requirements: | The search function must be fast and accurate.                                   |
| Assumptions:             |  |
| Notes and Issues:        |  |

| Use Case ID:   | EMPLOYERS_UC_1            |                    |             |
|----------------|---------------------------|--------------------|-------------|
| Use Case Name: | Edit Profile ( Employer ) |                    |             |
| Created By:    | Ewen Cheung               | Last Updated By:   | Ewen Cheung |
| Date Created:  | 19 Feb 2025               | Date Last Updated: | 20 Feb 2025 |

| Actor:             | Employer   |  |
|--------------------|--|--|
| Description:       | An Employer can update business details such as Company Name, Description, Logo, Email, Contact Information, and Password. Some updates require verification before changes are applied.   |  |
| Preconditions:     | <ol> <li>The employer is logged into their account.</li> <li>The employer has an existing company profile in the system.</li> </ol>  |  |
| Postconditions:    | The system updates the employer's profile with the new information.  |  |
| Priority:          | 3  |  |
| Frequency of Use:  | 4  |  |
| Flow of Events:    | <ol> <li>The employer clicks "Edit Profile."</li> <li>The system displays editable profile fields.</li> <li>The employer modifies business details.</li> <li>The employer clicks "Save Changes."</li> <li>The system validates the updated information.</li> <li>If valid, the system updates the profile.</li> </ol>              |  |
| Alternative Flows: | AF-3a: Update Business Email (Requires OTP Verification)  1. The employer updates their email address.  2. The system validates email format.  3. The system sends a OTP to the new email.  4. The employer key in the OTP.  5. The system verifies the OTP and updates the email.  AF-3b: Change Password (Requires Old Password) |  |

|                          | Verification for Regular Users)  1. The employer clicks on "Change Password."  2. The system displays three input fields:  Old Password  New Password  Confirm New Password  The employer enters their old password.  The system validates the old password.  The employer enters a new password that meets security requirements (at least 8 characters, 1 special character, mixed case letters).  The system checks if "New Password" and "Confirm New Password" match.  If valid, the system updates the password. |  |
|--------------------------|--|--|
| Exceptions:              | E-1: Incorrect Old Password  1. The system displays an error message: "Incorrect old password. Please try again."  E-2: Email Confirmation Link Expired  1. The system prompts the employer to request a new link.   |  |
| Includes:                | Profile validation.  |  |
| Extends:                 | Allow Update Phone Number (Requires OTP     Verification)  |  |
| Special<br>Requirements: | The system should ensure data validation and security measures for profile updates.  |  |
| Assumptions:             | Employers have access to their email for verification.   |  |
| Notes and Issues:        | Consider allowing profile visibility settings for added privacy.   |  |

| Use Case ID:   | EMPLOYER_UC_2 |                    |             |
|----------------|---------------|--------------------|-------------|
| Use Case Name: | Post Job      |                    |             |
| Created By:    | Ewen Cheung   | Last Updated By:   | Ewen Cheung |
| Date Created:  | 19 Feb 2025   | Date Last Updated: | 20 Feb 2025 |

| Actor:            | Employer   |  |
|-------------------|--|--|
| Description:      | An Employer can create, edit, update, and manage job listings for potential Job Seekers to apply.  |  |
| Preconditions:    | <ol> <li>The employer is logged into their account.</li> <li>The employer has a verified profile.</li> <li>The employer is on the Post Ad Hoc / Post Internship page.</li> </ol>   |  |
| Postconditions:   | The employer successfully posts, updates, or manages a job listing.  |  |
| Priority:         | 5  |  |
| Frequency of Use: | 5  |  |
| Flow of Events:   | <ol> <li>The employer navigates to the Post Job page.</li> <li>The system displays a list of existing job posts.</li> <li>The employer clicks "Create New Job Post."</li> <li>The system displays an empty job posting form.</li> <li>The employer fills in job details, including:         <ul> <li>Job Title</li> <li>Job Description</li> <li>Location</li> <li>Salary Range</li> <li>Internship/Job Period</li> <li>Required Skills</li> <li>Year of Study</li> </ul> </li> <li>The employer clicks "Submit."</li> <li>The system validates the job posting.</li> <li>If valid, the system creates the job post and publishes</li> </ol> |  |

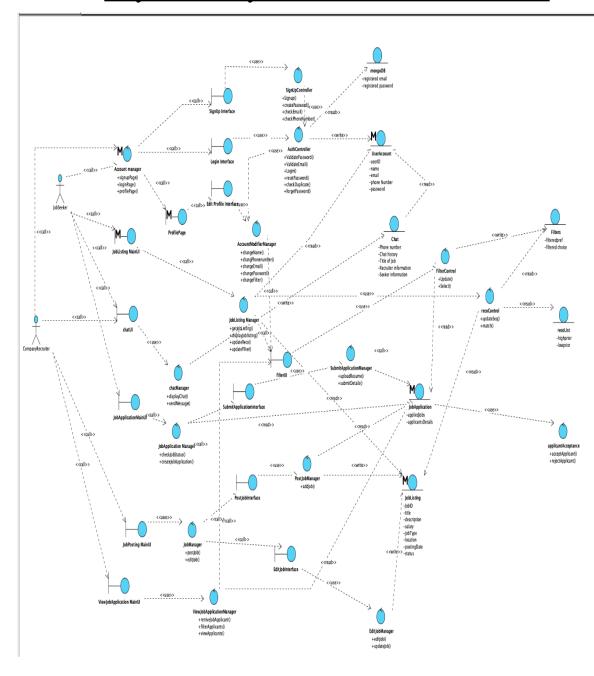
|                          | it.  |  |
|--------------------------|--|--|
| Alternative Flows:       | <ol> <li>AF-S3a: Editing an Existing Job Post</li> <li>The employer selects an existing job post.</li> <li>The employer modifies the job description, location, salary, or requirements.</li> <li>The employer clicks "Save Changes."</li> <li>The system updates the job post.</li> <li>AF-S5a: Employer Leaves Required Fields Blank</li> <li>The employer attempts to submit the form without filling in mandatory fields.</li> <li>The system displays an error message: "Please complete all required fields."</li> </ol> |  |
| Exceptions:              | <ul> <li>E-1: System Fails to Load Job Postings</li> <li>1. The system displays an error message: "Unable to load job postings. Please try again later."</li> <li>E-2: Employer Tries to Post Duplicate Job</li> <li>1. The system displays an error message: "This job posting already exists. Please modify the existing listing."</li> </ul>  |  |
| Includes:                | Job post management (Create, Edit, Delete).  |  |
| Extends:                 | Schedules Job Post for Future Date   |  |
| Special<br>Requirements: | The page must be responsive and provide a smooth user experience.  |  |
| Assumptions:             |  |  |
| Notes and Issues:        | Employer Schedules Job Post for Future Date     Employer Sets Expiration Date for Job Post   |  |

| Use Case ID:   | EMPLOYER_UC_3   |                    |             |
|----------------|-----------------|--------------------|-------------|
| Use Case Name: | View Candidates |                    |             |
| Created By:    | Ewen Cheung     | Last Updated By:   | Ewen Cheung |
| Date Created:  | 19 Feb 2025     | Date Last Updated: | 20 Feb 2025 |

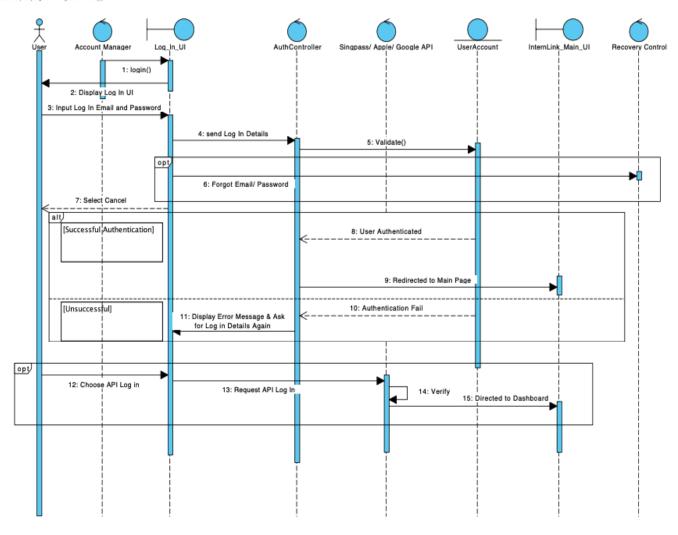
| Actor:            | Employer   |  |
|-------------------|--|--|
| Description:      | The employer can view all candidates who have applied for a job posting. The employer can take actions such as:  • Approve a candidate (mark them as accepted)  • Reject a candidate (remove them from consideration)  • Send a message (for interview scheduling or further inquiries)  |  |
| Preconditions:    | <ol> <li>The employer is logged into their account.</li> <li>The employer has one or more active job listings.</li> <li>At least one candidate has applied for the job.</li> </ol>   |  |
| Postconditions:   | <ol> <li>The employer successfully views and manages candidates.</li> <li>Candidates receive notifications of employer actions (approval, rejection, or message).</li> </ol>   |  |
| Priority:         | 5  |  |
| Frequency of Use: | 4  |  |
| Flow of Events:   | <ol> <li>The employer navigates to the "Find Internship" or "Find Ad Hoc" page.</li> <li>The employer selects a job listing and clicks "View Candidates."</li> <li>The system displays a list of all candidates who applied.</li> <li>The employer clicks on a candidate's profile to view details.</li> <li>The employer takes one of the following actions:         <ul> <li>Approve Candidate: Marks them as approved,</li> </ul> </li> </ol> |  |

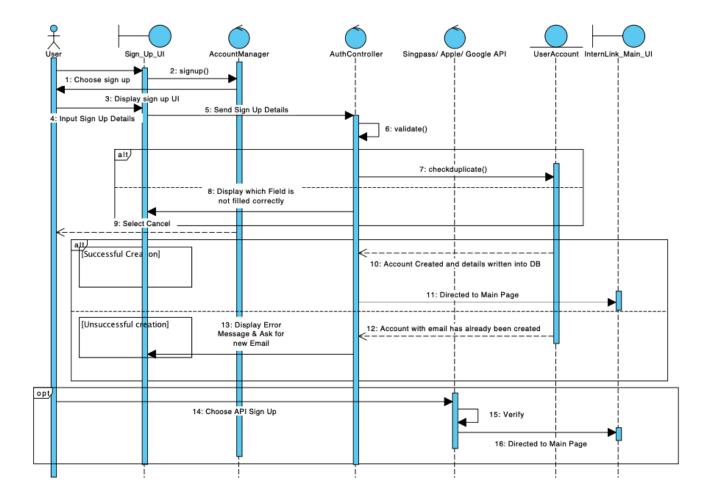
|                          | <ul> <li>sends an acceptance message.</li> <li>Reject Candidate: Marks them as rejected, removes them from the candidate list.</li> <li>Message Candidate: Sends a direct message to schedule an interview.</li> <li>6. The system updates the candidate's status and notifies them of the employer's decision.</li> </ul> |
|--------------------------|--|
| Alternative Flows:       | AF-S3a: No Candidates Applied  1. The system displays: "No candidates have applied for this job."  |
|                          | AF-S5a: Candidate Withdraws Application Before Review  1. The system notifies the employer that this candidate is no longer available.  2.   |
|                          | AF-S5b: Candidate Already Approved/Replied  1. The system prevents duplicate approvals or rejections.  |
| Exceptions:              | E-1: Candidate Account Deleted  1. The system displays an error: "This candidate is no longer available."  2.  |
|                          | E-2: System Fails to Load Candidate List  1. The system displays an error message and prompts the employer to refresh the page.  |
| Includes:                | Candidates Approval, Candidates Rejection, Massage Candidates.   |
| Extends:                 | Shortlist Candidates     Employers are able to filter or search candidates for large job postings.   |
| Special<br>Requirements: | The page must be responsive and display candidate details clearly.   |
| Assumptions:             | Employers check candidate applications within a reasonable timeframe.  |
| Notes and Issues:        |  |

# Key Boundary Classes & Control Classes

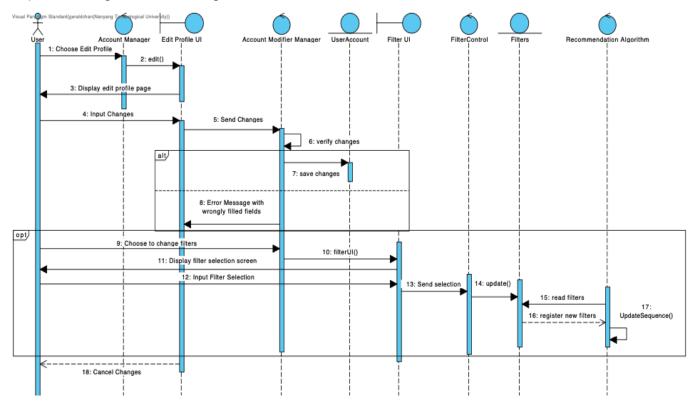




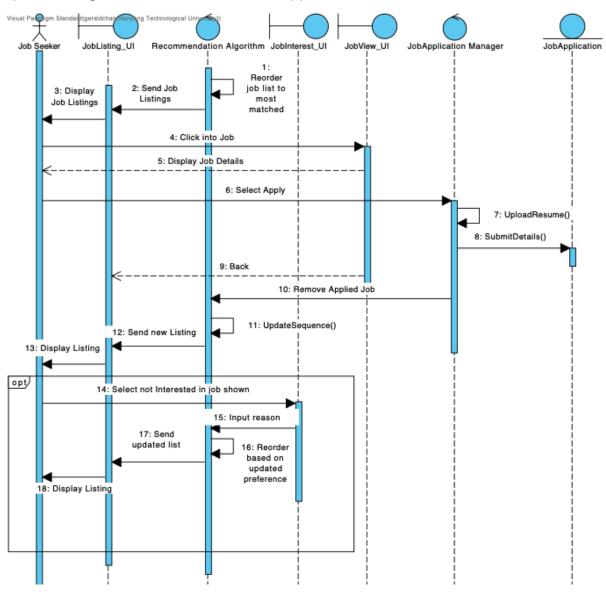




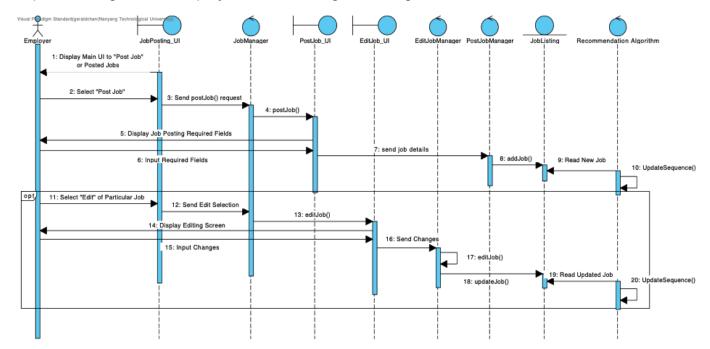
#### Sequence Diagram for Editting Profile:



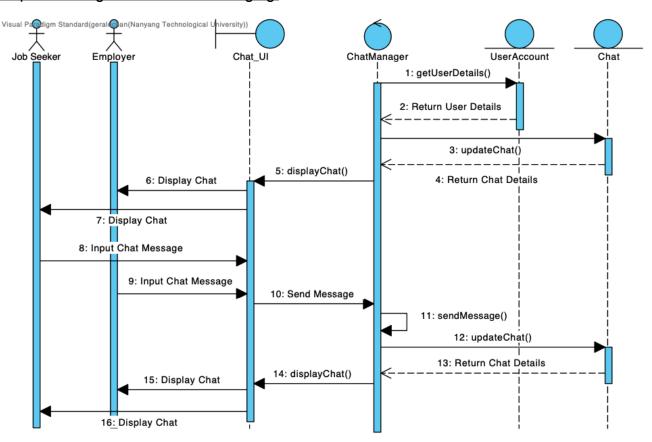
#### Sequence Diagram for Job Seeker's Job Application:



#### Sequence Diagram for Employer's Job Posting & Editting:



#### Sequence Diagram for Chat Messaging:



### Initial Dialog Map

