



# CAPSTONE PROJECT REPORT

## Report 3 – Software Requirement Specification

– Danang, May 2025 –

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## I. Record of Changes

Date	A* M, D	In charge	Change Description
22/12/2024	A	All members	Initiating
10/1/2025	M	All members	Updated functional scope and feedback process.
14/1/2025	M	All members	Modified ERD, added job application and interview tables.
17/1/2025	M	All members	Improved database, added subscription dates, enhanced CV CRUD.
8/2/2025	M	All members	Updated use cases, Admin flow, and fixed ERD relationships.
14/2/2025	M	All members	Finalized product background and report, prepared for code demo.
16/04/2024	M	All members	Update uc diagram, db and day capstone
22/04/2024	M	All members	Update table of content, review report

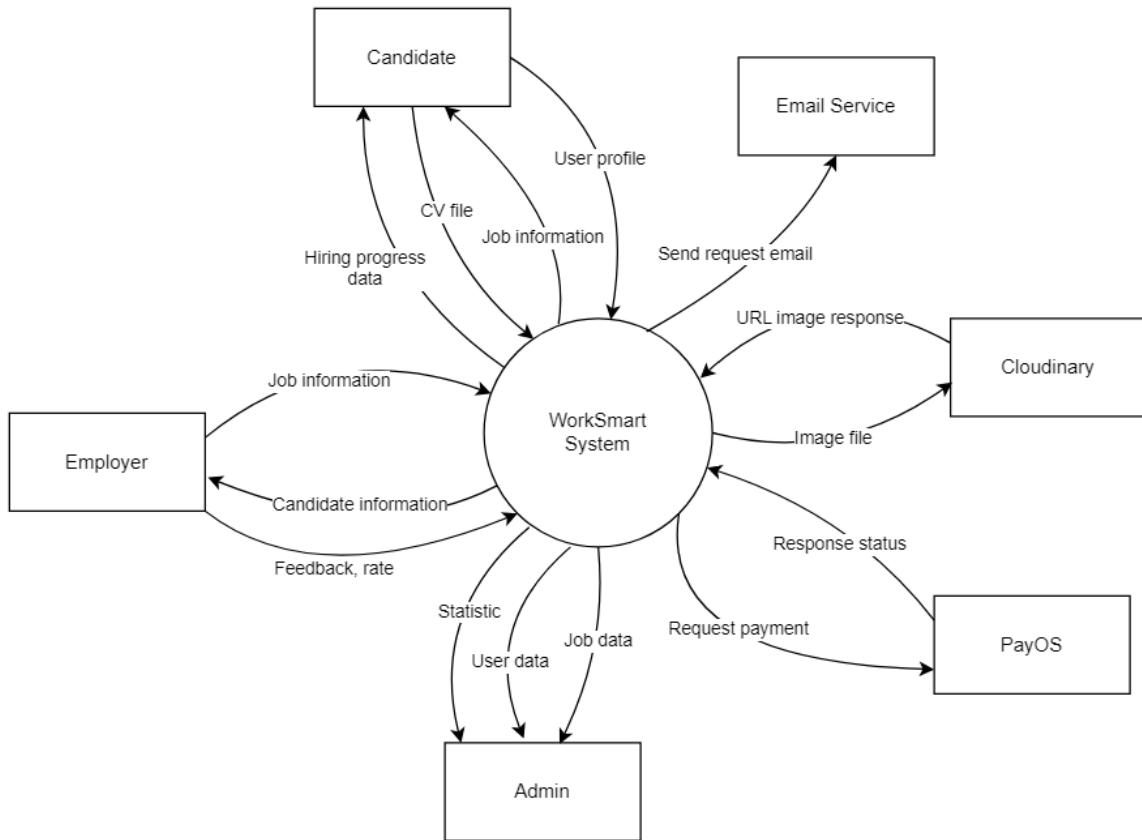
\*A - Added M - Modified D - Deleted

**Table 1. Record of Changes**

## II. Software Requirement Specification

### 1. Product Overview

The WorkSmart Platform is an online system designed to connect candidates and employers seamlessly. Key features include personalized job recommendations, detailed candidate profiles, real-time chat, subscription management, and advanced job tracking tools. The platform aims to empower recruiters with powerful management tools and provide job seekers with a smooth and tailored experience. With integrated notifications, payment gateways, and AI-based candidate matching, the system is designed to streamline hiring processes while ensuring high user satisfaction and scalability for global use.



**Figure 1. Context diagram**

### 2. User Requirements

#### 2.1 Actors

#	Actor	Description
1	<b>Guest</b>	A guest who can access the platform without logging in. Guests can view the landing page, browse basic job postings, and read about the platform's features. They cannot apply for jobs, save postings, or interact with employers until they create an account.

2	<b>Candidate</b>	The candidate who creates an account to search for job opportunities. They can apply for jobs, manage their profiles, upload CVs, and track hiring progress. They can also save favorite postings, chat with employers.
3	<b>Employer</b>	The employer who posts job listings. They can manage applications, track progress, view candidate profiles, send offers, and communicate with job seekers. They also have access to advanced management tools through subscription plans.
4	<b>Administrator</b>	The administrator oversees the system and ensures smooth operation. They have full control over user accounts (ban/unban/delete), approve or reject job or project postings, resolve reports, manage subscription plans, and monitor system analytics and transactions.

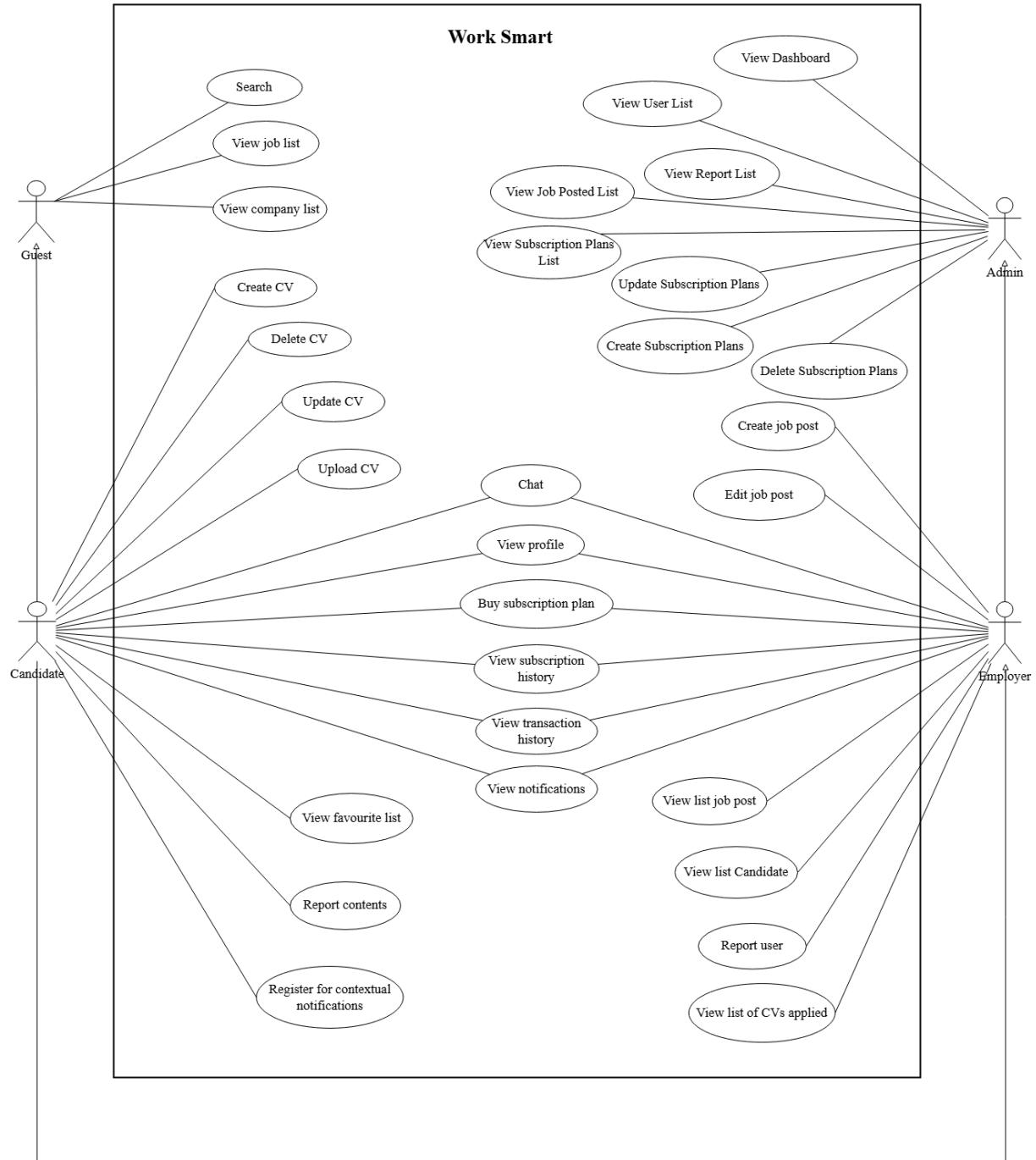
**Table 2. Actors**

## 2.2 Use Cases

### 2.2.1 Diagram(s)

#### 2.2.1.1 Use case for overview WorkSmart

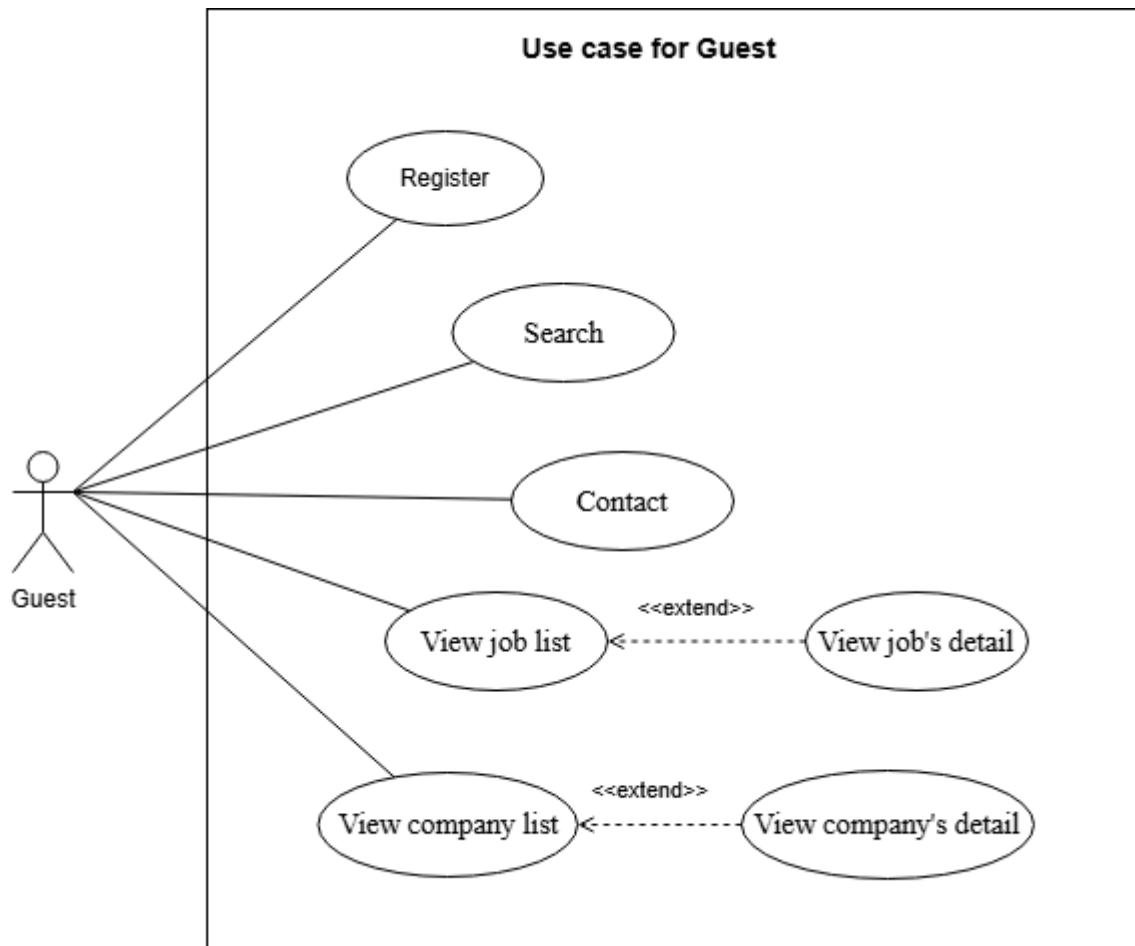
Below is an overview of the use cases for the WorkSmart.



**Figure 2. WorkSmart Use Case Diagram**

### 2.2.1.2 Use Case for Guest

Below is a subsystem use case for the Guest actor.



**Figure 3. Guest Use Case Subsystem**

### 2.2.1.3 Use Case for Candidate

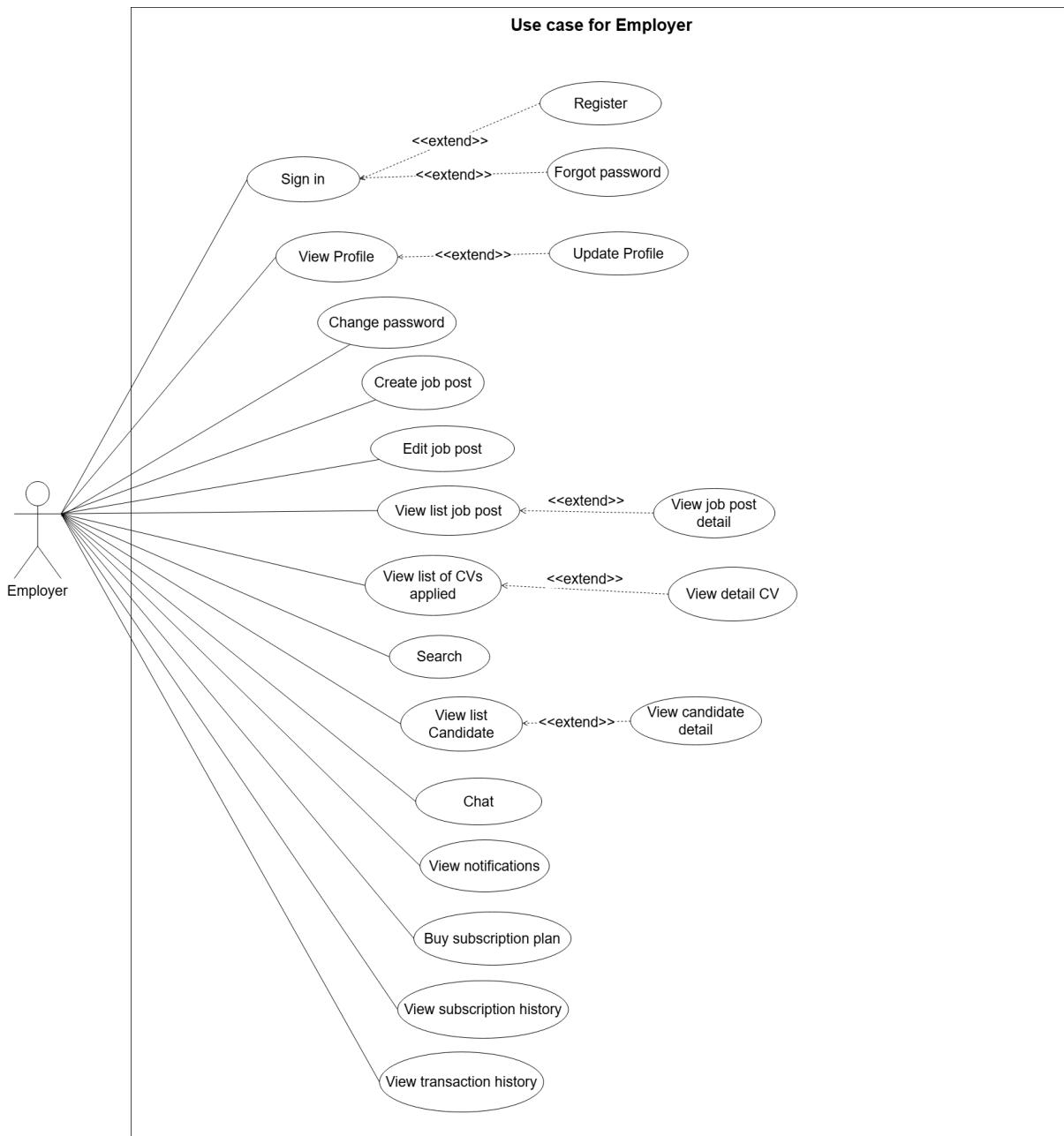
Below is a subsystem use case for the Candidate actor.



**Figure 4. Candidate Use Case Subsystem**

#### 2.2.1.4 Use Case for Employer

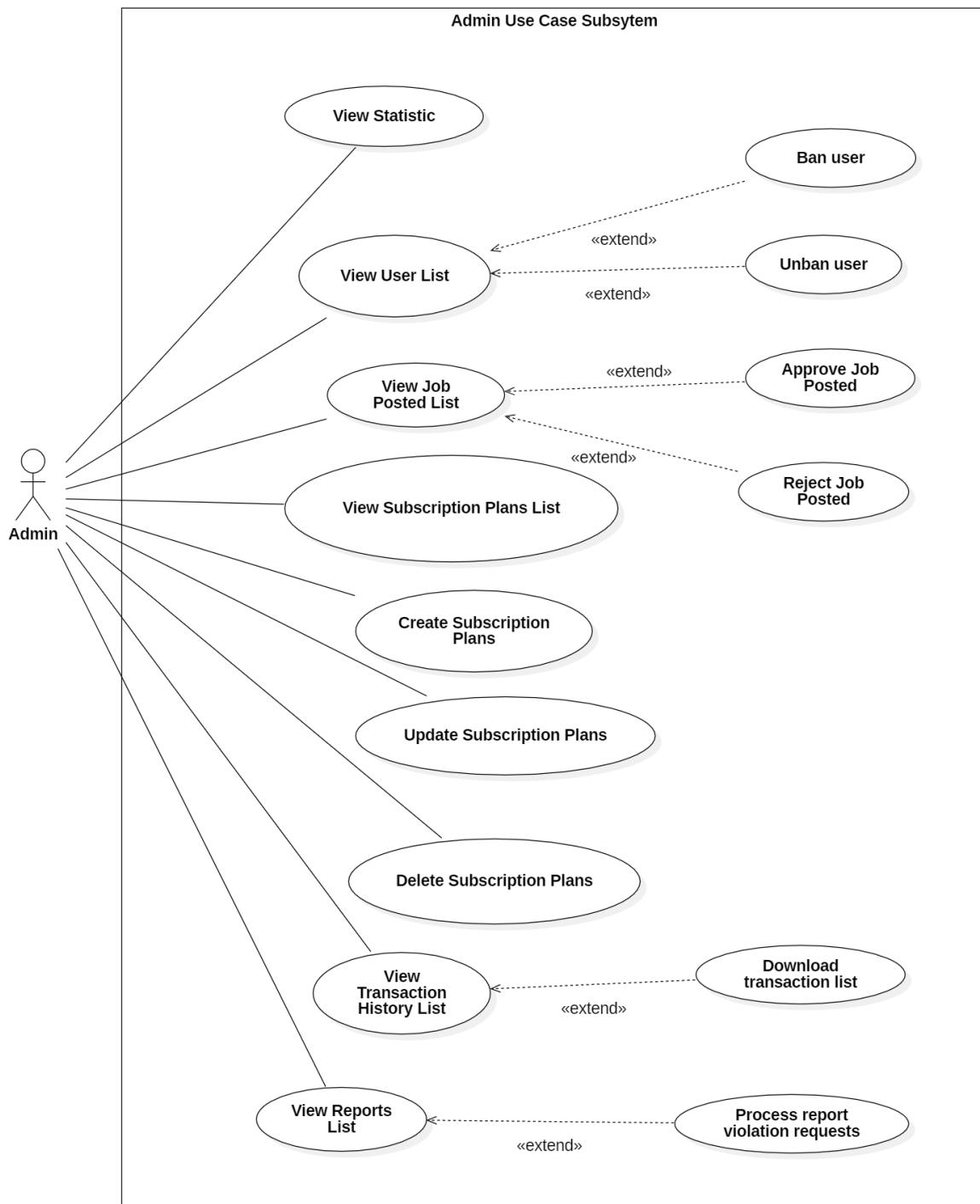
Below is a subsystem use case for the Employer actor.



**Figure 5. Employer Use Case Subsystem**

### 2.2.1.5 Use Case for Admin

Below is a subsystem use case for the Admin actor.



**Figure 6. Admin Use Case Subsystem**

## 2.2.2 Use Case Descriptions

ID	Use Case	Actors	Use Case Description
01	Sign in	Candidate, Employer, Admin	Allows users to sign in using email and password.
02	Sign in with Google	Candidate, Employer, Admin	Allows users to log in using their Google account.
03	Register	Guest	Enables new visitors to create an account by providing personal information.
04	Log Out	Candidate, Employer, Admin	Allows users to log out from their account.
05	Forgot Password	Candidate, Employer, Admin	Enables users to reset their password via a reset link sent to their email.
06	View Profile	Candidate, Employer, Admin	Allows users to view their profile details.
07	Edit Profile	Candidate, Employer, Admin	This use case allows users to edit their personal information.
08	Change Password	Candidate, Employer, Admin	This use case allows authenticated users to change their password from their account settings.
09	Create CV	Candidate	Allows a candidate to create a CV, save it as a draft, upload a resume, and add certificates.
10	Edit CV	Candidate	Enables a candidate to update their CV, including personal details, experience, education, skills, and certifications.
11	Delete CV	Candidate	Allows a candidate to delete their CV from the system.
12	Upload CV	Candidate	Allows candidates to upload their personal profiles and CVs for employers to review.
13	Chat	Candidate, Employer, Admin	Facilitates real-time communication and notifications about events like feedback, job postings, or messages.
14	View List Jobs	Guest, Candidate, Employer	Enables users to view a list of available job postings.
15	View Detail Job	Guest, Candidate, Employer	Allows users to view detailed information about a specific job.
16	Apply CV	Candidate	Enables candidates to apply for a job using their CV.
17	Search	Guest, Candidate,	Provides search functionality for jobs, candidates, or other relevant content.

ID	Use Case	Actors	Use Case Description
		Employer	
18	Register For Contextual Notifications	Candidate	Enables candidates to subscribe to specific notifications based on their interests.
19	Add to favourite list	Candidate	Allows candidates to save job posts to their favourite list for easy access later.
20	View favourite list	Candidate	Enables candidates to view and manage their saved job posts.
21	View Notifications	Candidate	Allows candidates to view their notifications.
22	Report Job Contents	Candidate	Enables candidates to report inappropriate or harmful content.
23	Buy Subscription Plan	Candidate, Employer	Access advanced features on the platform.
24	View Subscription History	Candidate, Employer	Enables candidates and employers to view the history of their service subscriptions.
25	View Transaction History	Candidate, Employer	Allows candidates to view their past transactions.
26	View CV Applied	Employer	Enables employers to view a list of all CVs submitted for job positions they've posted.
27	View CV Applied Detail	Employer	Allows employers to view detailed information of candidate CVs applied to their positions.
28	View List Candidate	Employer	Enables employers to view a list of all candidates who have applied to their positions.
29	View Candidate Detail	Employer	Allows employers to view detailed information about candidates.
30	Report Candidate	Employer	Enables employers to report candidates with inappropriate behavior or fraudulent information.
31	View Static	Admin	Allows the admin to monitor platform statistics, including users, job posts, subscriptions, and feedback.
32	View User Accounts List	Admin	Enables the admin to access and manage all registered user accounts.
33	Deactivate User Account	Admin	Allows the admin to disable a user's access to the platform.
34	Approve Job Posted	Admin	Enables the admin to approve job posts, making them visible to candidates.
35	Reject Job Posted	Admin	Allows the admin to reject job posts that do not meet platform guidelines.
36	View Feedbacks List	Admin	Enables the admin to review feedback submitted by users.
37	Delete Feedback	Admin	Allows the admin to remove inappropriate or spam feedback.

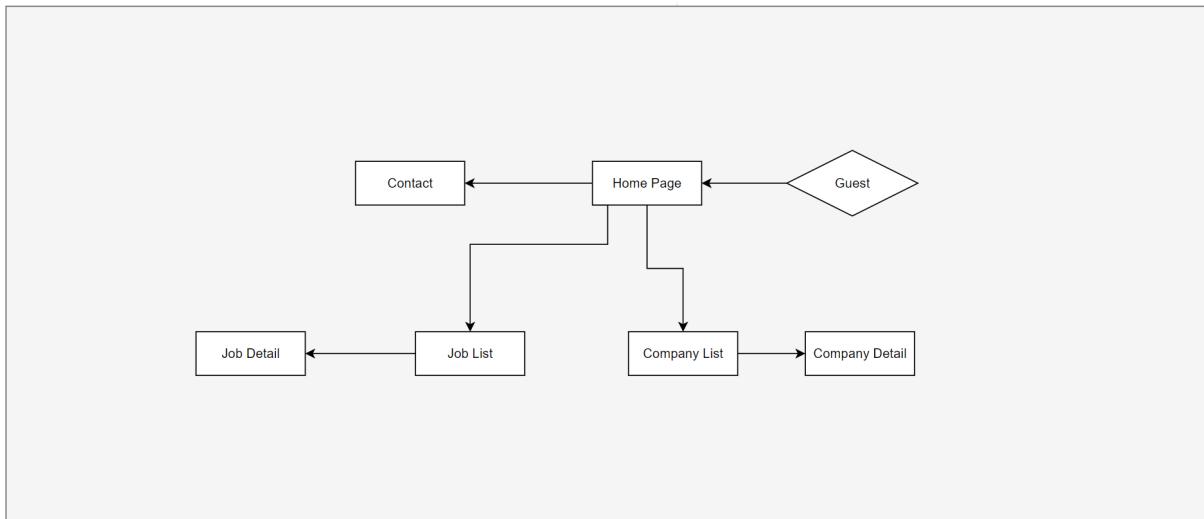
ID	Use Case	Actors	Use Case Description
38	Create Subscription Plans	Admin	Enables the admin to define and add new subscription plans for employers.
39	View Subscription Plans List	Admin	Allows the admin to see details of all existing subscription plans.
40	Update Subscription Plans	Admin	Enables the admin to modify pricing, features, or duration of subscription plans.
41	Delete Subscription Plans	Admin	Allows the admin to remove outdated or unused subscription plans.
42	View Payments List	Admin	Enables the admin to track payments made by employers.
43	View Reports List	Admin	Allows the admin to review reported content or user violations.

**Table 3. Use case Descriptions**

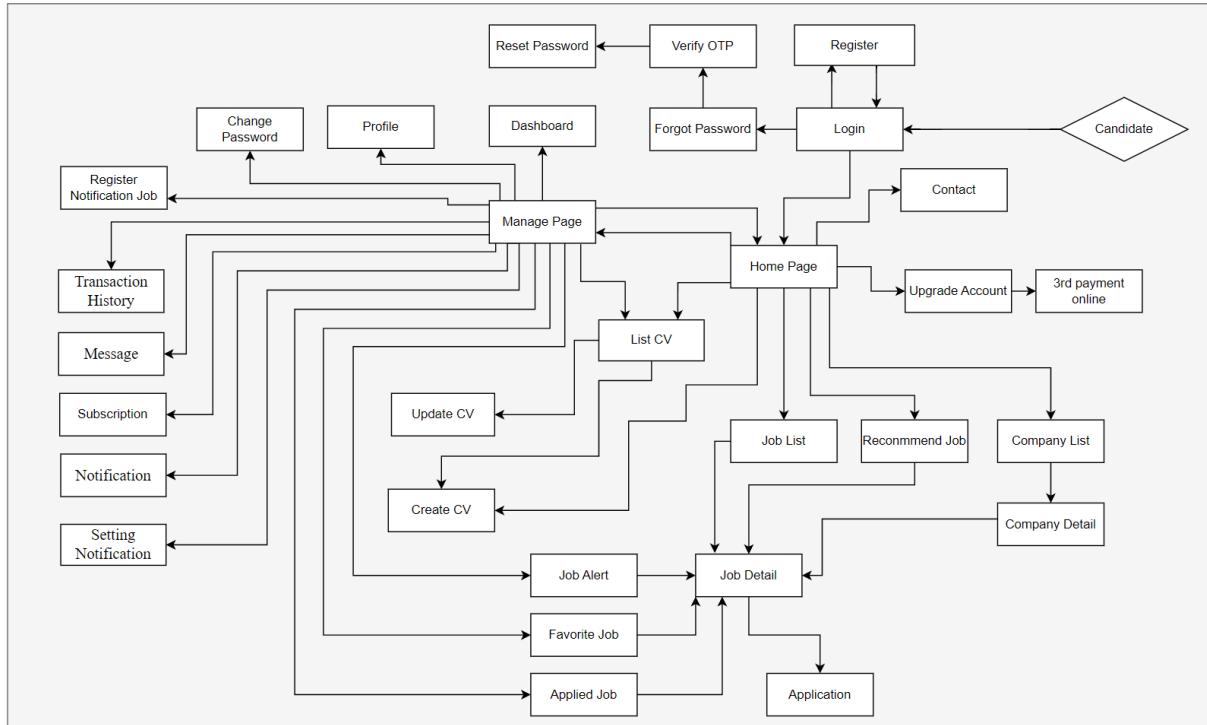
### 3. Functional Requirements

#### 3.1 System Functional Overview

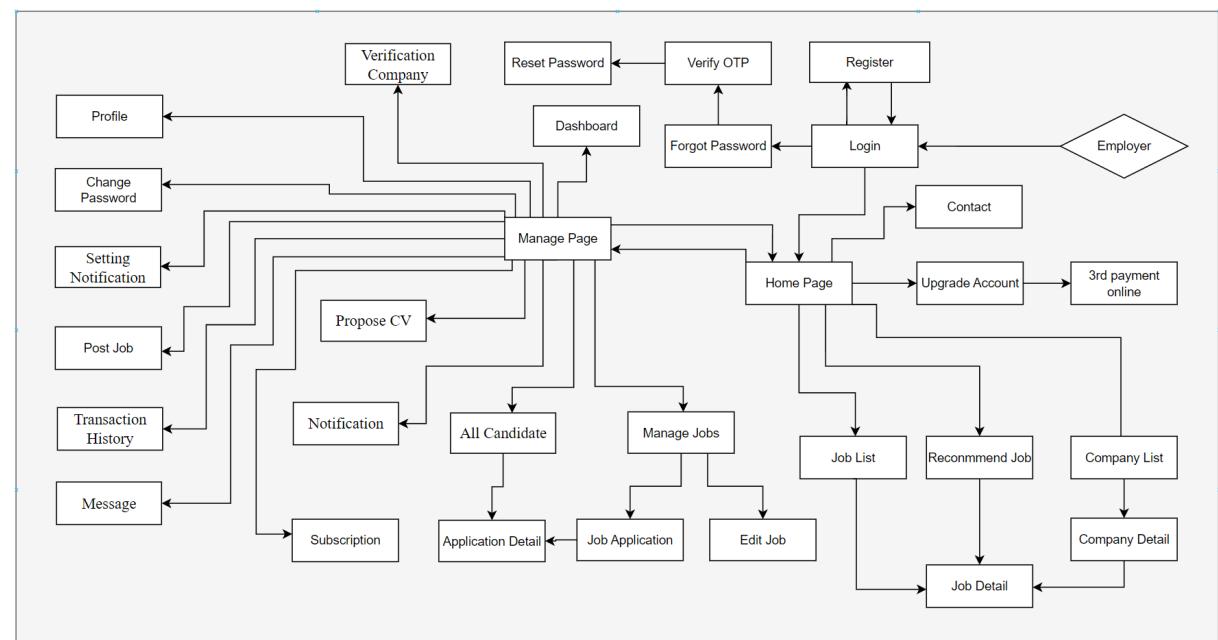
##### 3.1.1 Screens Flow



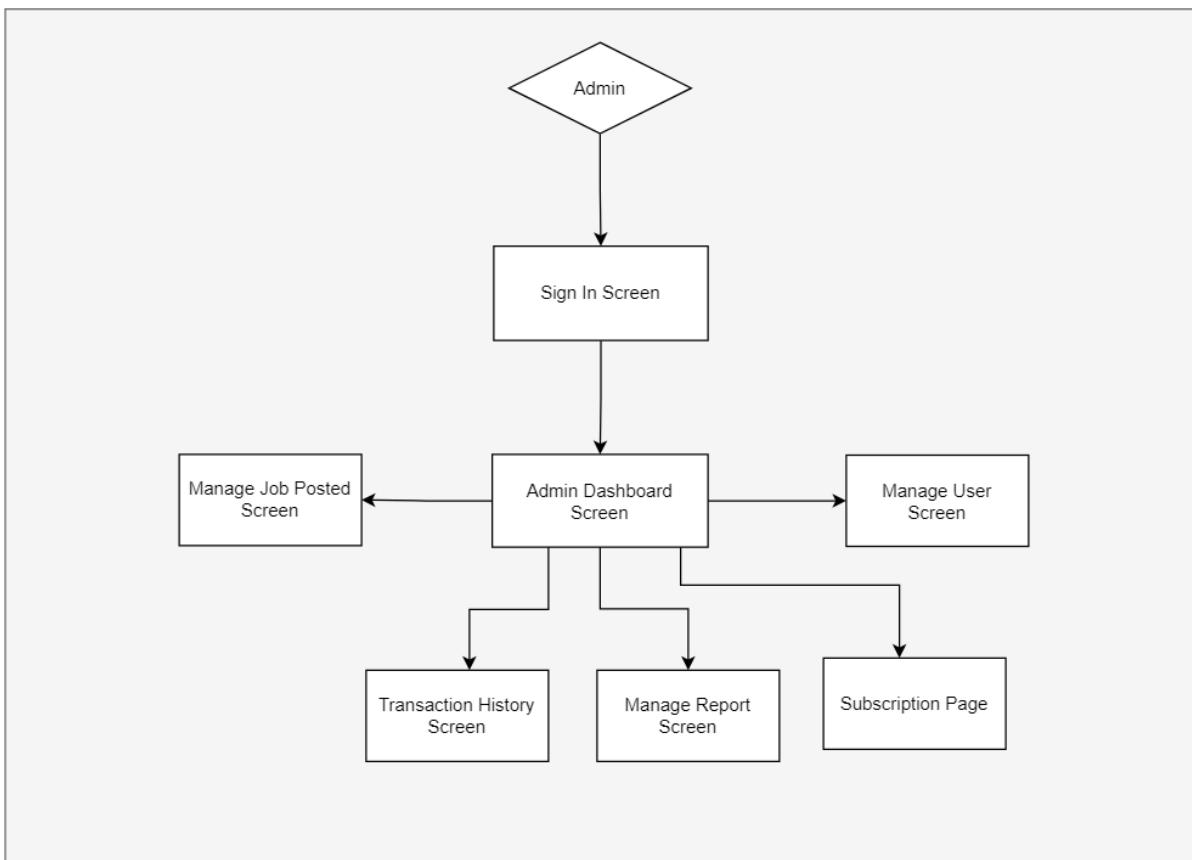
**Figure 7. Guest screen flow diagram**



**Figure 8. Candidate screen flow diagram**



**Figure 9. Employer screen flow diagram**



**Figure 10. Admin Screen Flow diagram**

### 3.1.2 Screen Descriptions

#	Feature	Screen	Description
1	Authentication	Register	Non-logged in users can register for an account to become a Candidate or Employer.
2		Login	Users can log in using their credentials. Supports forgot password via OTP.
3		Forgot Password	Allows users to recover their password via email verification.
4		Verify OTP	Screen for entering the OTP received by email to verify identity.
5		Reset Password	Allows users to set a new password after verification process.
6		Change Password	Change the existing account password.

#	Feature	Screen	Description
7	User Account Management	Manage User Screen	Admin can ban, unban, delete users, and export user data.
8		Dashboard	View summary of activities (saved jobs, applications, subscription).
9	Job Management	Manage Jobs	Employer manages created job postings.
10		Manage Job Posted Screen	Admin manages job postings (approve/reject).
11		Favorite Job	Save jobs to favorites for later viewing.
12		Job Alert	List job alerts based on saved search criteria.
13		Application	Candidate applies to job postings.
14		Job Application	Employer manage application to their job
15		Applied Job	View list of jobs candidate has applied to.
16		Post Job	Employer creates a new job post.
17		Edit Job	Employer edits an existing job post.
18	Candidate Management	All Candidate	Employer views all candidates applied.
19		Application Detail	Employer views details of a candidate's application.
20		Propose CV	Employer proposes a CV for a job post.
21	Employer Management	Company List	View list of companies on the platform.
22		Company Detail	View detailed profile of a company.

#	Feature	Screen	Description
23		Verification Company	Employer submits verification documents (tax, license).
24	Profile & CV Management	List CV	Candidate views list of their CVs.
25		Create CV	Create a new CV manually.
26		Update CV	Edit an existing CV.
27	Chat	Message	Private messaging system between Employer and Candidate.
28	Notifications & Alerts Management	Notification	List of system notifications.
29		Setting Notification	Set up notification preferences (email, in-app).
30		Register Notification Job	Register to receive job notifications.
31	Reports Management	Manage Report Screen	Admin reviews and manages violation reports.
32	Transactions Management	Transaction History	Candidates/Employers view transaction records.
33		Transaction History Screen	Admin views and downloads all transactions.
34	Subscription Plans Management	Upgrade Account	View and buy account upgrade packages.
35		3rd payment online	Use external payment gateway to complete purchases.
36		Subscription Page	Admin creates, updates, and deletes subscription plans.

**Table 4. Screen Descriptions**

### 3.1.3 Screen Authorization

Screen	Guest	Candidate	Employer	Admin
Home page	X	X	X	X

<b>Screen</b>	<b>Guest</b>	<b>Candidate</b>	<b>Employer</b>	<b>Admin</b>
Register	X	X	X	X
Login	X	X	X	X
Forgot Password	X	X	X	X
Verify OTP	X	X	X	
Reset Password	X	X	X	
Change Password		X	X	
Manage User Screen				X
Dashboard		X	X	X
Manage Jobs			X	
Manage Job Posted Screen				X
Favorite Job		X		
Job Alert		X		
Application		X		
Job Application			X	
Applied Job		X		
Post Job			X	
Edit Job			X	
All Candidate			X	
Application Detail			X	
Propose CV			X	
Company List	X	X	X	X
Company Detail	X	X	X	X
Verification Company			X	
List CV		X		
Create CV		X		
Update CV		X		

Screen	Guest	Candidate	Employer	Admin
Message		X	X	
Notification		X	X	
Setting Notification		X	X	
Register Notification Job		X		
Manage Report Screen				X
Transaction History		X	X	
Transaction History Screen				X
Upgrade Account		X	X	
3rd payment online		X	X	
Subscription Page		X	X	

**Table 5. Screen Authorization**

### 3.1.4 Non-Screen Functions

#	Feature	System Function	Description
1	User Account Verification	Email Verification Automation	Automatically sends email verification links to new users (Candidates/Employers) upon registration to confirm their accounts.
2	Notification Management	Scheduled Email/SMS Notifications	Sends out email notifications to Candidates for new matching jobs or to Employers about new applications to their job posts.

**Table 6. Non-Screen Functions**

### 3.1.5 Entity Relationship Diagram

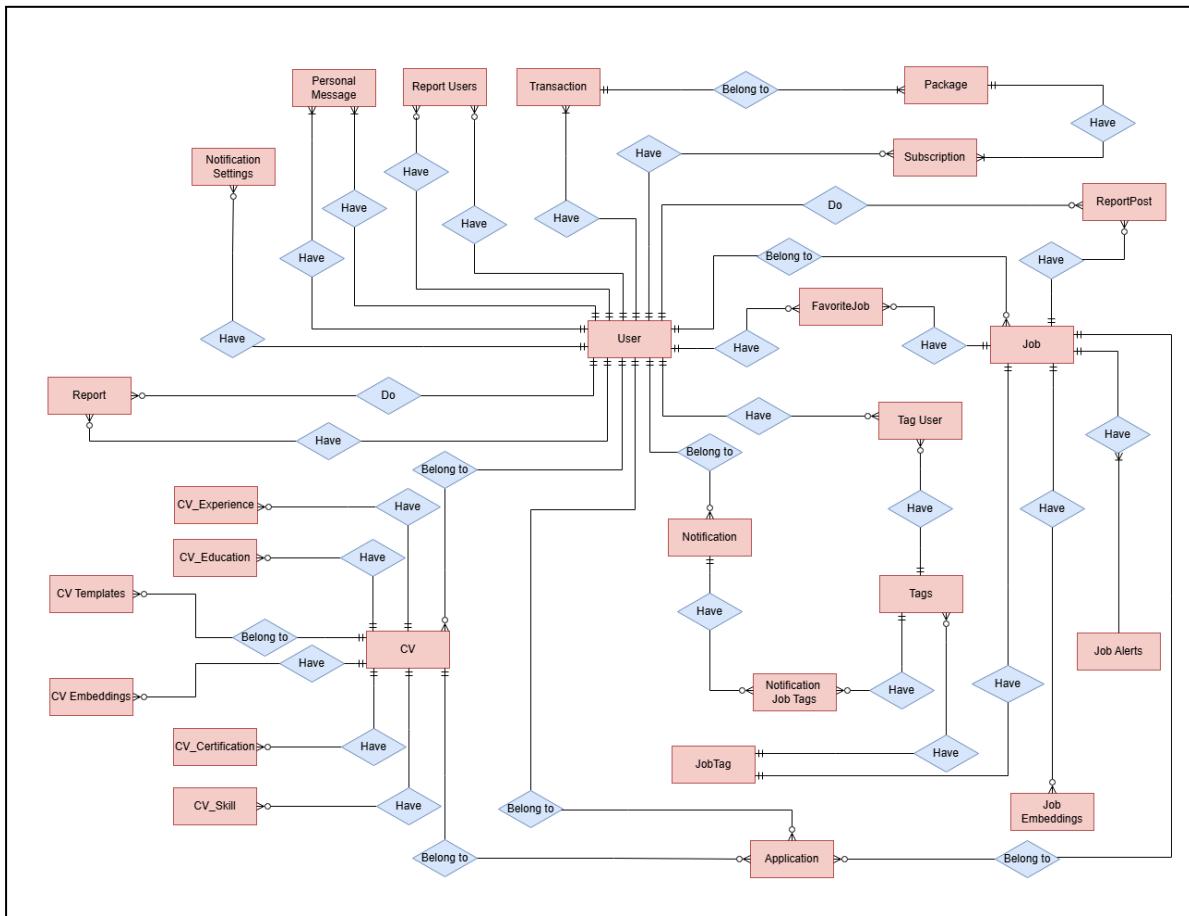


Figure 11. Entity Relationship Diagram

### Entities Description

#	Entity	Description
1	User	<p>Description: Stores user information.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- UserID (PK)</li> <li>- UserName</li> <li>- Avatar</li> <li>- IdentityNumber</li> <li>- IdentityConfirmed</li> <li>- Email</li> <li>- Role</li> <li>- PasswordHash</li> <li>- ConfirmationCode</li> <li>- IsEmailConfirmed</li> <li>- IsBanned</li> <li>- IsPrivate</li> <li>- FullName</li> <li>- PhoneNumber</li> <li>- Gender</li> <li>- DateOfBirth</li> </ul>

#	Entity	Description
		<ul style="list-style-type: none"> <li>- Address</li> <li>- CompanyName</li> <li>- CompanyDescription</li> <li>- WorkLocation</li> <li>- VerificationLevel</li> <li>- TaxId</li> <li>- Industry</li> <li>- CompanySize</li> <li>- CompanyWebsite</li> <li>- TaxVerificationStatus</li> <li>- TaxVerificationReason</li> <li>- BusinessLicenseImage</li> <li>- LicenseVerificationStatus</li> <li>- LicenseVerificationReason</li> <li>- CreatedAt</li> <li>- UpdatedAt</li> </ul>
2	Jobs	<p>Description: Stores information about job postings.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- JobID (PK)</li> <li>- UserID</li> <li>- Title</li> <li>- Description</li> <li>- Level</li> <li>- Education</li> <li>- NumberOfRecruitment</li> <li>- WorkType</li> <li>- Location</li> <li>- JobPosition</li> <li>- Salary</li> <li>- Exp</li> <li>- Priority</li> <li>- Deadline</li> <li>- Status</li> <li>- ReasonRejectedJob</li> <li>- CategoryID</li> <li>- CreatedAt</li> <li>- UpdatedAt</li> </ul>
3	Applications	<p>Description: Stores information about candidates applying for jobs.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- ApplicationID (PK)</li> <li>- UserID (FK)</li> <li>- JobID (FK)</li> <li>- CVID (FK)</li> <li>- Status</li> <li>- RejectionReason</li> <li>- CreatedAt</li> </ul>

#	Entity	Description
		<ul style="list-style-type: none"> <li>- UpdatedAt</li> </ul>
4	CVs	<p>Description: Stores information about users' CVs.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- CVID (PK)</li> <li>- UserID (FK)</li> <li>- CVTemplateId (FK)</li> <li>- Title</li> <li>- Description</li> <li>- FirstName</li> <li>- LastName</li> <li>- JobPosition</li> <li>- WorkType</li> <li>- Summary</li> <li>- Address</li> <li>- Phone</li> <li>- Email</li> <li>- Link</li> <li>- Borderstyle</li> <li>- Colorhex</li> <li>- IsFeatured</li> <li>- FileName</li> <li>- FilePath</li> <li>- IsHidden</li> <li>- CreatedAt</li> <li>- UpdatedAt</li> </ul>
5	CV_Experience	<p>Description: Stores work experience details in a CV.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- ExperienceID (PK)</li> <li>- CVID (FK)</li> <li>- JobPosition</li> <li>- CompanyName</li> <li>- Address</li> <li>- Description</li> <li>- StartedAt</li> <li>- EndedAt</li> </ul>
6	CV_Education	<p>Description: Stores education details in a CV.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- EducationID (PK)</li> <li>- CVID (FK)</li> <li>- Major</li> <li>- SchoolName</li> <li>- Degree</li> <li>- Description</li> <li>- StartedAt</li> <li>- EndedAt</li> </ul>
7	CV_Certification	<p>Description: Stores certification details in a CV.</p> <p>Properties:</p>

#	Entity	Description
		<ul style="list-style-type: none"> <li>- CertificationID (PK)</li> <li>- CVID (FK)</li> <li>- CertificateName</li> <li>- Description</li> <li>- CreateAt</li> <li>- CertificationID</li> </ul>
8	CV_Skill	<p>Description: Stores users' skill lists in their CVs.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- SkillID (PK)</li> <li>- CVID (FK)</li> <li>- SkillName</li> <li>- Description</li> </ul>
9	FavoriteJobs	<p>Description: Stores users' favorite jobs list.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- FavoriteJobID (PK)</li> <li>- UserID (FK)</li> <li>- JobID (FK)</li> <li>- CreateAt</li> </ul>
10	Notification	<p>Description: Stores user notifications.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- NotificationID (PK)</li> <li>- UserID</li> <li>- Title</li> <li>- Message</li> <li>- IsRead</li> <li>- Link</li> <li>- CreatedAt</li> </ul>
11	NotificationJobTag	<p>Description: Links users to notifications based on tags.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- NotificationJobTagID (PK)</li> <li>- TagID</li> <li>- UserID</li> <li>- Email</li> <li>- CreateAt</li> </ul>
12	PersonalMessages	<p>Description: Stores personal messages information.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- PersonalMessageID (PK)</li> <li>- SenderID (FK)</li> <li>- ReceiverID (FK)</li> <li>- Content</li> <li>- CreatedAt</li> <li>- IsRead</li> </ul>

#	Entity	Description
13	ReportPost	<p>Description: Stores reports about job posts.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- ReportPostID (PK)</li> <li>- SenderID</li> <li>- JobID</li> <li>- Content</li> <li>- Status</li> <li>- CreatedAt</li> </ul>
14	Transaction	<p>Description: Stores user transaction details.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- TransactionID (PK)</li> <li>- UserID (FK)</li> <li>- OrderCode</li> <li>- Content</li> <li>- Price</li> <li>- Status</li> <li>- CreatedAt</li> <li>- UpdatedAt</li> </ul>
15	Package	<p>Description: Stores information about service packages.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- PackageID (PK)</li> <li>- Name</li> <li>- Price</li> <li>- DurationInDays</li> <li>- JobPostLimitPerDay</li> <li>- FeaturedJobPostLimit</li> <li>- AccessToPremiumCandidates</li> <li>- CVLimit</li> <li>- HighlightProfile</li> <li>- AccessToExclusiveJobs</li> </ul>
16	Subscription	<p>Description: Stores user subscription details.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- SubscriptionID (PK)</li> <li>- PackageID (FK)</li> <li>- UserID (FK)</li> <li>- ExpDate</li> <li>- CreatedAt</li> </ul>
17	CVEmbeddings	<p>Description: Stores vector embeddings for CVs to enable semantic search and matching.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- EmbeddingID (PK)</li> <li>- CVID (FK)</li> <li>- VectorJson</li> <li>- UpdatedAt</li> </ul>

#	Entity	Description
18	JobEmbeddings	<p>Description: Stores vector embeddings for jobs to enable semantic search and job recommendations.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- EmbeddingID (PK)</li> <li>- JobID (FK)</li> <li>- VectorJson</li> <li>- UpdatedAt</li> </ul>
19	Tag	<p>Description: Stores tag detail</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- TagID (PK)</li> <li>- TagName</li> <li>- Category</li> </ul>
20	CVTemplates	<p>Description: Stores reusable CV templates for users.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- TemplateID (PK)</li> <li>- Name</li> <li>- Structure</li> <li>- Thumbnail</li> <li>- IsDefault</li> <li>- CreatedAt</li> <li>- UpdatedAt</li> </ul>
21	NotificationSettings	<p>Description: Stores user preferences for different types of notifications.</p> <p>Properties:</p> <p>NotificationSettingID (PK)</p> <ul style="list-style-type: none"> <li>- UserID (FK)</li> <li>- SavedJobsUpdates</li> <li>- RecommendedJobs</li> <li>- ApplicationApproved</li> <li>- ApplicationApply</li> <li>- ApplicationRejected</li> <li>- NewApplications</li> <li>- ApplicationStatusUpdates</li> <li>- JobSubmission</li> <li>- JobApproved</li> <li>- JobRejected</li> <li>- ApplicationDeadlines</li> <li>- WeeklyReports</li> <li>- PerformanceAlerts</li> <li>- EmailSavedJobsUpdates</li> <li>- EmailRecommendedJobs</li> <li>- EmailApplicationApproved</li> </ul>

#	Entity	Description
		<ul style="list-style-type: none"> <li>- EmailApplicationApply</li> <li>- EmailApplicationRejected</li> <li>- EmailNewApplications</li> <li>- EmailApplicationStatusUpdates</li> <li>- EmailJobSubmission</li> <li>- EmailJobApproved</li> <li>- EmailJobRejected</li> <li>- EmailApplicationDeadlines</li> <li>- EmailWeeklyReports</li> <li>- EmailPerformanceAlerts</li> </ul>
22	JobAlerts	<p>Description: Stores job alert criteria for timely notifications.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- JobAlertId (PK)</li> <li>- UserId (FK)</li> <li>- Keyword</li> <li>- Province</li> <li>- District</li> <li>- SalaryRange</li> <li>- JobPosition</li> <li>- Experience</li> <li>- JobType</li> <li>- Frequency</li> <li>- NotificationMethod</li> <li>- CreatedAt</li> </ul>
23	TagUser	<p>Description: Mapping table linking users with their interest tags.</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- TagUserID (PK)</li> <li>- TagID (FK)</li> <li>- UserID (FK)</li> <li>- CreatedAt</li> </ul>
24	JobTag	<p>Description: Mapping table linking jobs with relevant tags</p> <p>Properties:</p> <ul style="list-style-type: none"> <li>- JobTagID (PK)</li> <li>- JobID (FK)</li> <li>- TagID (FK)</li> <li>- CreatedAt</li> </ul>

**Table 7. Entities Description**

## 3.2 Authentication

### 3.2.1 Registration

- Function trigger: The user clicks on the “Register” link on the Login page or accesses the Register page with a link.
- Function description: The guest will register an account to access as a candidate or employer account, by entering personal information into the registration form.
- Screen layout:

The wireframe shows a web browser window titled "Register Page" with the URL "https://worksmart.com/register". The main content area is titled "Register". It features two tabs at the top: "Candidate" (which is selected) and "Employer". Below the tabs are four input fields with asterisks indicating required fields: "Full name \*", "Email \*", "Password", and "Confirm Password \*". Each password field includes a visibility icon. A large "Register" button is located below the password fields. At the bottom of the form, there is a link "Already have an account? [Login now](#)".

This wireframe shows the same basic structure as the first one, but with additional fields for employer registration. The "Employer" tab is selected. The form includes the "Email \*", "Password", and "Confirm Password \*" fields from the first version, plus new sections for "Employer information". These sections contain "Full name \*", "Gender \*", with radio buttons for "Male" and "Female", and dropdowns for "Personal Phone Number \*", "Company Name \*", and "Work Location \*". The "Work Location" dropdown is labeled "Select province/city". A large "Register" button is at the bottom, and a "Login now" link is at the bottom right.

- Function details:

- Data: Include Full Name, Email, Password, Gender, Personal Phone Number, Company Name, Work Location
- Validation:
  - Email and phone numbers must be in real form, and entered correctly.
  - Password must contain at least 8 characters, uppercase letters, special letters, and numbers.
- Business rule: BR-01, BR-02, BR-03
- Functionality:
  - In Normal Cases: If all information is correct, the account is created, and a success notification is displayed and the system sends a verification email
  - In Abnormal Cases: If any information is invalid, an error message indicating the issue is displayed.

### 3.2.2 Login

- Function trigger: The user clicks on the “Login” button on the Landing page or accesses the Login page with a link.
- Function description: The user will log in to the application using their existing account.
- Screen layout:

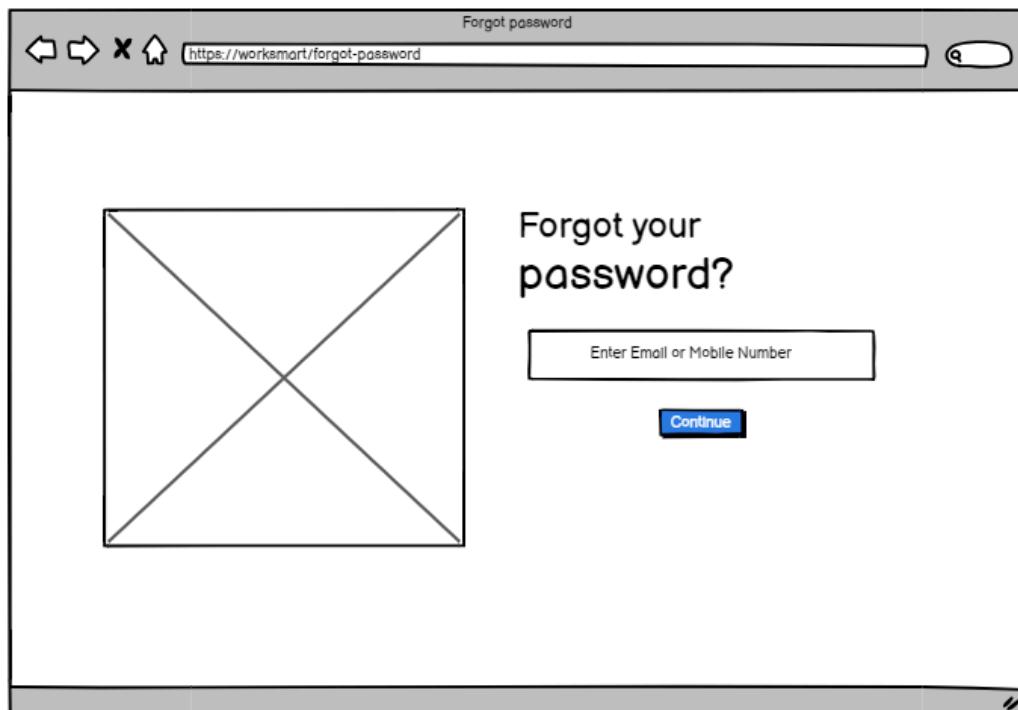
The wireframe shows a 'Login Page' with the URL <https://worksmart.com/login>. The page is divided into two main sections. The left section is mostly empty with a large 'X' mark. The right section is titled 'Login' and contains fields for 'Email' and 'Password', a 'Forgot password?' link, a 'Login' button, and a 'Google' sign-in button. Below the login area is a link for users who don't have an account and a 'Register' link.

- Function details:
  - Data: Include Email and Password
  - Validation:
    - The email must be in a valid format.
    - The email must exist in the system.
    - The password must match the registered password.
    - The account may be locked after multiple failed login attempts.
  - Business rule: BR-04
  - Functionality:
    - In Normal Cases: If the email and password are valid, the system sends a login request to the server. Then the user is logged in and redirected to the homepage

- In Abnormal Cases: If the email or password is incorrect, the system displays an error message

### **3.2.3 Forgot password**

- Function trigger: Users click "Forgot Password" on the login page when they forget their password.
- Function description: Allows users to retrieve their password by entering their registered email, the system sends an email with a link to reset a new password.
- Screen layout:



- Function details:
  - Data: Include email, token, new password, new password
  - Validation:
    - Email must be in correct format.
    - Email must be in the system database.
    - New password and password confirmation must be the same.
    - New password must meet security standards (at least 8 characters, including uppercase letters, numbers and special characters).
    - Reset token must be valid (not expired, same as the token sent via email).
  - Business rule: BR-16,BR-18,BR-19,BR-20
  - Functionality:
    - In Normal Cases: The user enters the email, the system sends a password reset link. After the user clicks the link and enters the new password, the system updates the password and asks to log in again.
    - In Abnormal Cases: If the email does not exist, the format is incorrect, the token is expired, the password is invalid, or the confirmation password does not match, the system displays the corresponding error.

### **3.2.4 Change password**

- Function trigger: The user clicks on the "Change Password" button on the personal profile page.

- Function description: Allows the user to change the current password with a new password.
- Screen layout:

The screenshot shows a web browser window titled "Change password". The address bar displays the URL "https://worksmart/password/reset". The main content area contains a large red "X" inside a rectangular box. To the right of the "X" are three input fields: "Current Password", "New password", and "Confirm password". Each input field includes a small lock icon and a visibility icon. Below these fields are two buttons: "Cancel" and "Submit".

- Function details:
  - Data: Include current password, new password and confirm password
  - Validation:
    - All fields are required.
    - Current password must be correct.
    - New password must meet security standards(At least 8 characters, Contains at least 1 uppercase letter, 1 number, and 1 special character.)
    - New password and new password confirmation must match.
    - New password cannot be the same as old password.
  - Business rule: BR-15,BR-16,BR-17
  - Functionality:
    - In Normal Cases: User enters current password and new password (with confirmation). System checks validity, if correct, updates new password and asks user to log in again.
    - In Abnormal Cases: If the current password is incorrect, the new password is invalid (not secure enough), or the confirmation password does not match, the system displays the corresponding error message.

### 3.3 User Account Management

#### 3.3.1 View List User Accounts

- Function trigger: The admin clicks on the "User Management" tab or selects "View All Users" from the admin dashboard.
- Function description: The admin can view a comprehensive list of all user accounts registered in the system with filtering and sorting capabilities.
- Screen layout:

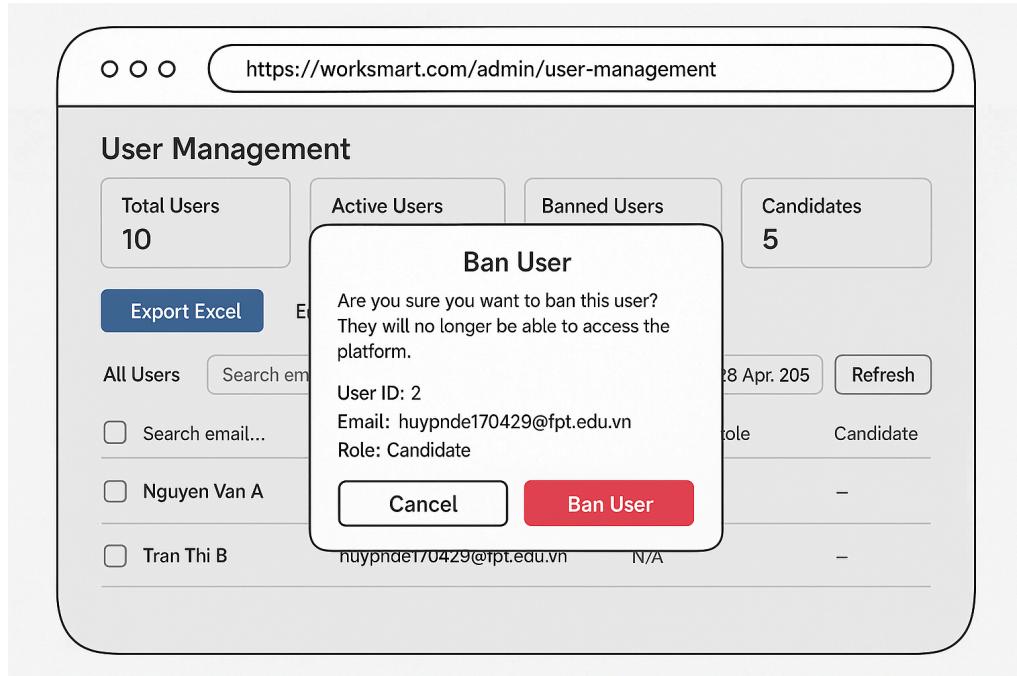
The screenshot shows the 'User Management' page at <https://worksmart.com/admin/user-management>. At the top, there are four summary boxes: 'Total Users 10', 'Active Users 10', 'Banned Users 0', and 'Candidates 5'. Below these are buttons for 'Export Excel', 'All Users', 'Employers', 'Candidates', and 'Pending Verification'. A search bar with placeholder 'Search email...', a date range selector '01 Jan, 2025 – 28 Apr. 2025', and 'Refresh' and '—' buttons are also present. The main area displays a table of users:

<input type="checkbox"/>	Name	Email	Role	Verification	Company	Acc. Status
<input type="checkbox"/>	Nguyen Van A	huypnde170429@fpt.edu.vn			N/A	—
<input type="checkbox"/>	Tran Thi B	tranthi.b@example.com			N/A	—

- Function details:
  - Data: User ID, Username, Email, Registration Date, Last Login Date, Account Type (Regular/Premium), Account Status (Active/Banned/Suspended), Total Job Posts, Total Applications
  - Validation:
    - The system verifies admin privileges before displaying the user list.
    - Only authorized admin accounts can access this function.
  - Business rule: BR-15
  - Functionality:
    - In Normal Cases: The system successfully retrieves and displays the list of all user accounts with pagination (25 users per page by default).
    - In Abnormal Cases: If the database connection fails, an error message "Unable to retrieve user accounts. Please try again later" is displayed. If no users are found for specific filters, a message "No users match your search criteria" appears.

### 3.3.2 Ban or Unban User

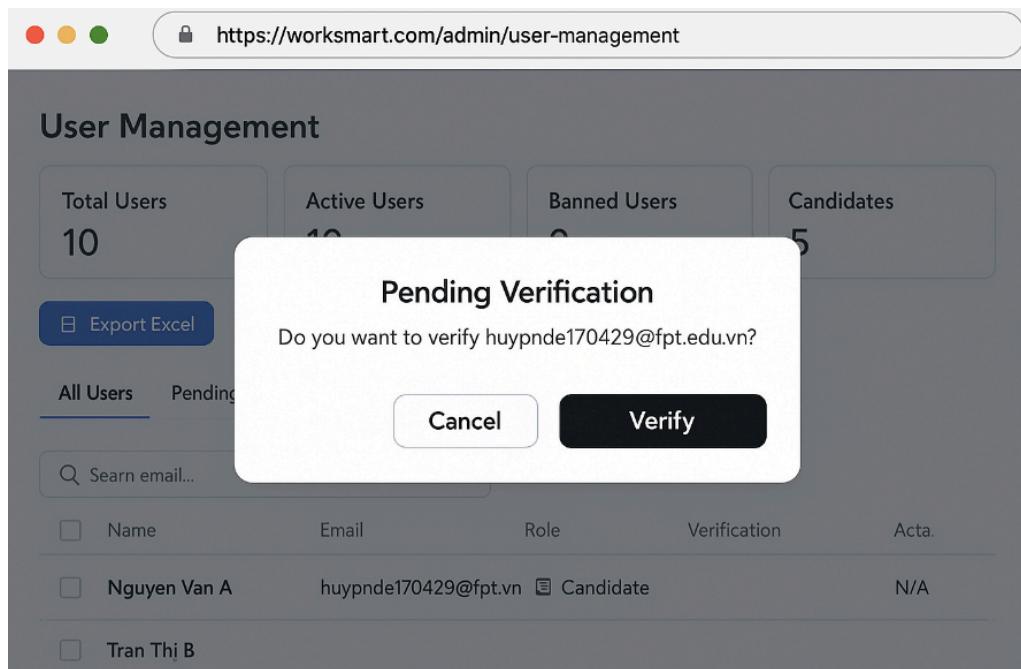
- Function trigger: The admin clicks on the "Ban/Unban" button next to a user in the user list or on the user profile page.
- Function description: The admin can change a user's status to banned (preventing login) or unban a previously banned user (restoring access).
- Screen layout:



- Function details:
  - Data: User ID, Username, Email, Current Status, Reason for Ban/Unban, Ban Duration (Temporary/Permanent)
  - Validation:
    - The system requires the admin to enter a reason before confirming the ban/unban action.
    - If a temporary ban is selected, a valid duration must be specified.
    - System administrators cannot be banned.
  - Business rule: BR-16
  - Functionality:
    - In Normal Cases: The system updates the user's status immediately. For banning, the user is logged out of all active sessions and receives an email notification about the ban and reason. For unbanning, the user receives an email notification that their account access has been restored.
    - In Abnormal Cases: If the status update fails, an error message "Unable to update user status. Please try again" appears. If the system can't send the notification email, the status is still updated but the admin receives a warning "User status updated but notification email could not be sent."

### 3.3.3 Export User Data

- Function trigger: The admin clicks on the "Export Data" button in the user management section or selects specific users and chooses "Export" from the action menu.
- Function description: The admin can export user account data in various formats (CSV, Excel) for reporting or backup purposes.
- Screen layout:

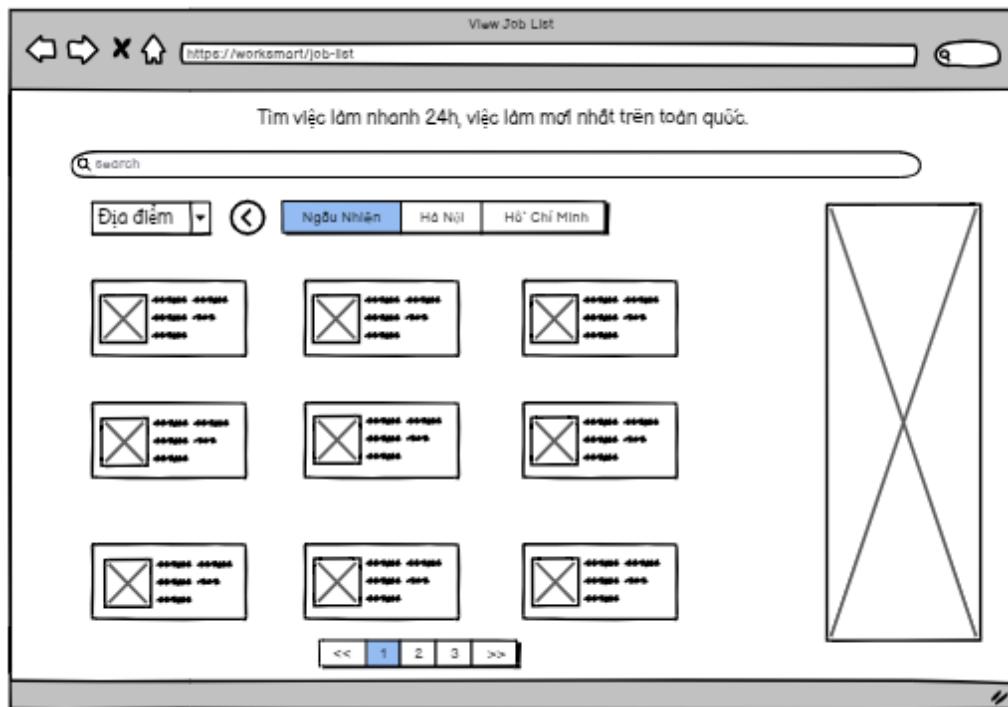


- Function details:
  - Data: All user profile data, account activities, job postings, applications, and interaction history
  - Validation:
    - The system verifies that the admin has export privileges.
    - For bulk exports, a warning is displayed if the selected user count exceeds 1000.
    - The system checks available server resources before initiating large exports.
  - Business rule: BR-17
  - Functionality:
    - In Normal Cases: The system processes the request and generates the export file in the selected format. Once complete, the file is available for download and temporarily stored in the admin's download section for 24 hours.
    - In Abnormal Cases: If the export process fails due to server load, an error message "Export temporarily unavailable due to high server load. Please try again later" appears. If the data size exceeds limits, a message "Selected data exceeds maximum export size. Please reduce selection or contact system support" is displayed.

## 3.4 Job Management

### 3.4.1 View Job List

- Function trigger: The user clicks on the "Jobs" tab or navigates to the job listing page from the homepage.
- Function description: The user can view a list of available jobs based on their preferences and search criteria.
- Screen layout:



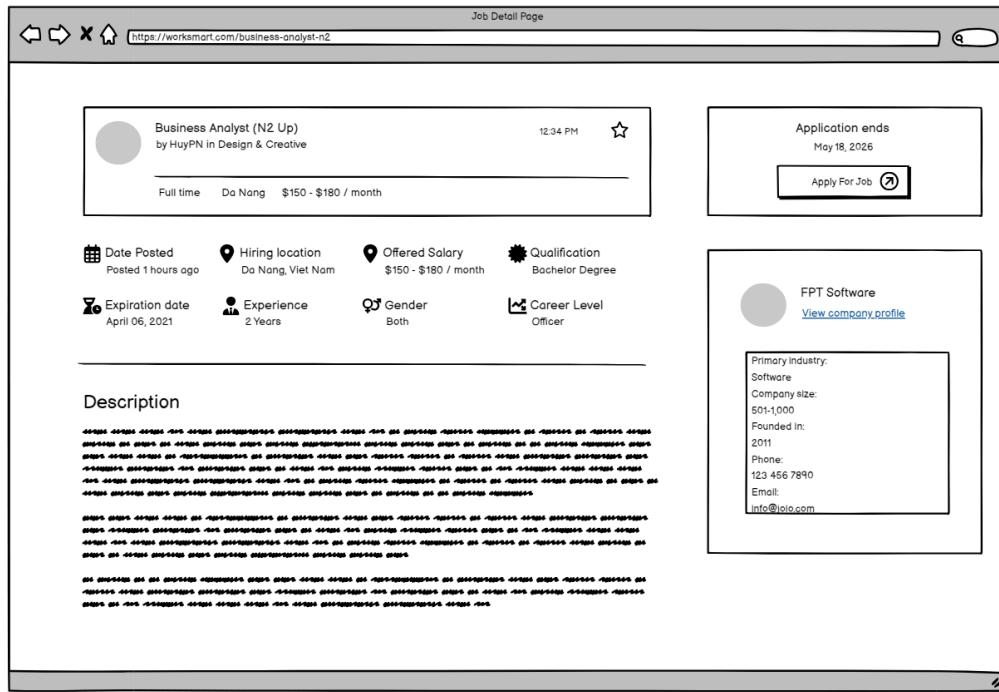
- Function details:
  - Data: Job Title, Company Name, Job Location, Category, Job Type (Full-time, Part-time, Freelance, etc.), Experience, Salary Range
  - Validation:
    - The system ensures only active and valid job postings are displayed.
  - Business rule: BR-05
  - Functionality:
    - In Normal Cases: The system successfully retrieves and displays job listings.
    - In Abnormal Cases: If there are no matching jobs, a message like "No jobs found for your criteria" is displayed. If there's a server issue, an error message such as "Unable to load jobs, please try again later" appears.

### 3.4.2 View Job Detail

- Function trigger: The user clicks on a specific job listing from the job list page.
- Function description: The user can view detailed information about a specific job.

- Screen

layout:



- Function details:
  - Validation:
    - Ensure the job post is still active before displaying details.
  - Business rule: BR-06
  - Functionality:
    - In Normal Cases: Clicking on a job listing redirects the user to the job details page.
    - In Abnormal Cases: If the job no longer exists, an error message such as "This job is no longer available" is displayed.

### 3.4.3 Create Job Post

- Function trigger: The employer clicks on the Create Job Post button from the navigation menu.
- Function description: The employer can create a job post by filling in relevant details such as job title, industry, location, job requirements, and contact information.

- Screen layout:

The screenshot displays the 'Create Job Post' page. On the left, a sidebar titled 'Win Employer' lists navigation links: Dashboard, Create job post, Manage job post, Applied CVs, Find new candidate, User guide, and Support. The main content area is titled 'Create Job Post' and is divided into several sections: 'Basic information' (Job title, Display location of job posting, Industry, Experience, Number of recruitment, Submission deadline), 'Address 1' (Province / City, District, House number, road name), 'General Requirements' (Type of employment, Job level, Minimum salary, Maximum salary), 'Job Details' (Job descriptions with rich text editor), 'Job requirements' (Job requirements with rich text editor), and 'Contact information' (Full name, Resume Submission Email, Phone number). At the bottom right are 'Preview' and 'Save & Continue' buttons.

- Function details:
  - Validation:
    - Ensure all required fields are filled before submission.
    - Validate email and phone number formats.
    - Ensure the expiration date is in the future.
  - Business rule: BR-09, BR-10
  - Functionality:
    - In Normal Cases:
      - The employer successfully creates a job post.\
      - The system stores the job post and it becomes visible in job listings.
    - In Abnormal Cases:
      - If required fields are missing, an error message such as "Please fill in all required fields" is displayed.
      - If the expiration date is invalid, an error message such as "Expiration date must be in the future" appears.

#### 3.4.4 View Job Post

- Function trigger: The user selects a job post from the job management page.
- Function description: The user can view details of a job post they have created.

- Screen layout:

Công ty TNHH Tư Vấn & Xây Dựng Pccc Ntk  
Chi Huy Thi Công PCCC  
Salaries: 13 - 20 millions | Deadline to apply: 23/02/2025 | Location: Hà Nội  
Update date 29/02/2025

**Job details** **Company**

**General information**

Posted date 05/02/2025	Rank Leader - supervisor
Number of recruitment 2	Working model Full-time
Qualifications Industry Science - Technology/Electrical - Electronics	Experience 2 years

**Job description**

- Read and understand design drawings, fire alarm systems, fire fighting systems, exit and incident lights...;
- Dismantling materials and making project estimates.

**Job requirements**

- Graduated from University, College majoring in Fire Prevention, Construction, Electricity, Water, Electronics
- Salary: 13 million - 20 million (Or negotiable depending on ability)

**Benefits**

- Salary: 13 million - 20 million (Or negotiable depending on ability)

**Location**

**Similar jobs**

- Warranty Technician (IT Hardware - Network)  
Company Technology ...  
8 - 10 Million  
Da Nana
- Warranty Technician (IT Hardware - Network)  
Company Technology ...  
8 - 10 Million  
Da Nana
- Warranty Technician (IT Hardware - Network)  
Company Technology ...  
8 - 10 Million  
Da Nana

- Function details:
  - Validation:
    - Ensure the job post exists before displaying details.
  - Business rule: BR-11
  - Functionality:
    - In Normal Cases:
      - The system retrieves and displays job post details successfully.
    - In Abnormal Cases:
      - If the job post does not exist, an error message "This job post is no longer available" is displayed.
      - If there is a server issue, an error message "Unable to load job post details, please try again later" appears.

### 3.4.5 Edit Job Post

- Function trigger: The user clicks the "Edit" button on a job post they have created.
- Function description: The user can modify an existing job post and update its details.

- Screen layout:

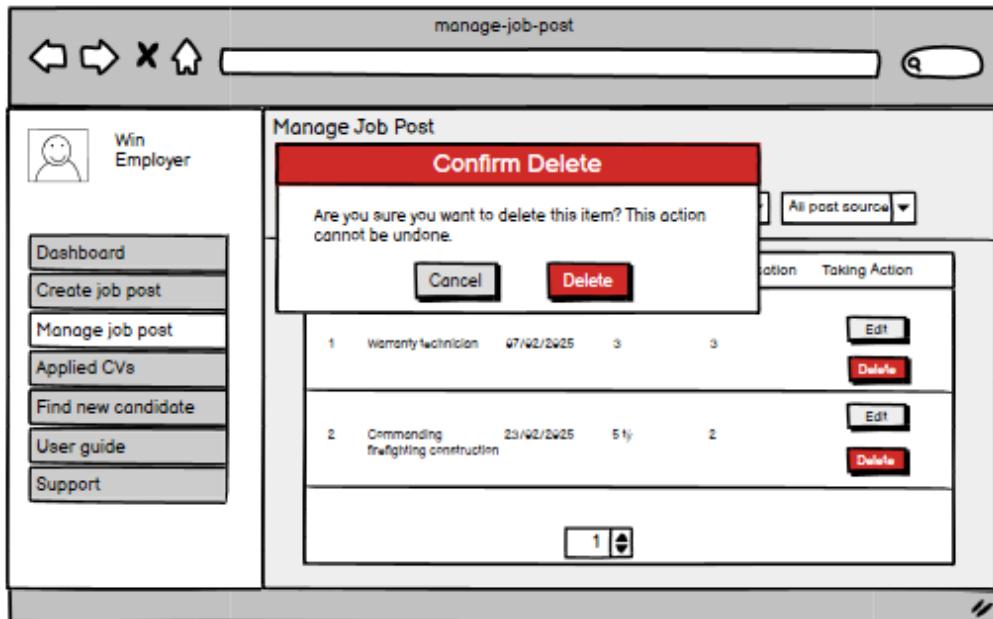
The screenshot shows the 'Edit Job Post' page. On the left is a sidebar with a user icon and the text 'Win Employer'. Below it is a vertical list of links: Dashboard, Create job post, Manage job post, Applied CVs, Find new candidate, User guide, and Support. The main content area is titled 'Edit Job Post'. It has several sections: 'Basic information' (Job title: Factory technician, Industry: Science - Technology, Experience: 3 years, Number of recruitment: 5, Submission deadline: 20/02/2025), 'Address 1' (Province / City: Thanh Hoa, District: Huytin Ha Trung, House number, road name: 41-43 duong Nguyen Xien), 'General Requirements' (Type of employment: Fulltime, Job level: Leader - Supervisor, Minimum salary: 15 Million, Maximum salary: 17 Million), 'Job Details' (Probation period: 1 week, Educational Qualifications: College, Gender requirement: Male), 'Job requirements' (List includes: Receive production information from departments and construction sites; check drawings; review and issue production orders; then submit production orders for issuance; Draw, design (according to factory requirements); then program on the machine and install into CNC machines to carry out production in the workshop; Male, with at least 2 years of work experience; Proficiency in computer, excel; knowing how to draw cad, knowing how to draw 3D is an advantage; Able to go on business trips when required; the company fully prepares accommodation and transportation), 'Contact Information' (Fullname: Thien, Resume Submission Email: thienthangpp73@gmail.com, Phone number: 0123456789, Interview Address: Thanh Hoa, Khu null Binh, X3 Ha Long, Huytin Ha Trung, Tinh Thanh Hoa, Viet Nam, Ha Trung), and a 'Preview' and 'Save & Continue' button at the bottom.

- Function details:
  - Validation:
    - Ensure the user is the creator of the job post before allowing edits.
    - The job post must still be active to be editable.
  - Business rule: BR-11
  - Functionality:
    - In Normal Cases:
      - The system successfully updates the job post with new details.
    - In Abnormal Cases:
      - If the job post no longer exists, an error message such as "This job post is no longer available." is displayed.
      - If the user is unauthorized, an error message such as "You do not have permission to edit this job post." is shown.
      - If there is a server issue, an error message such as "Unable to update job post, please try again later." appears.

### 3.4.6 Delete Job Post

- Function trigger: The user clicks the "Delete" button on a job post they have created.
- Function description: The user can remove a job post from the system.

- Screen layout:



- Function details:
  - Validation:
    - Ensure the user is the creator of the job post before allowing deletion.
    - The job post must still exist in the system.
  - Business rule: BR-11.
  - Functionality:
    - In Normal Cases:
      - The system successfully deletes the job post.
      - A success message such as "Job post deleted successfully." is displayed.
    - In Abnormal Cases:
      - If the user is unauthorized, an error message such as "You do not have permission to delete this job post." is shown.
      - If there is a server issue, an error message such as "Unable to delete job post, please try again later." appears.

### 3.4.7 Search for job

- Function trigger:
  - The user enters a job title, city, or tags and clicks "Find Jobs."
  - The user applies filters (experience, offer range, work type).
- Function description: This function allows users to search and filter job listings based on title, location, skills, experience, salary, and work type (full-time, part-time, etc.).

- Screen layout:

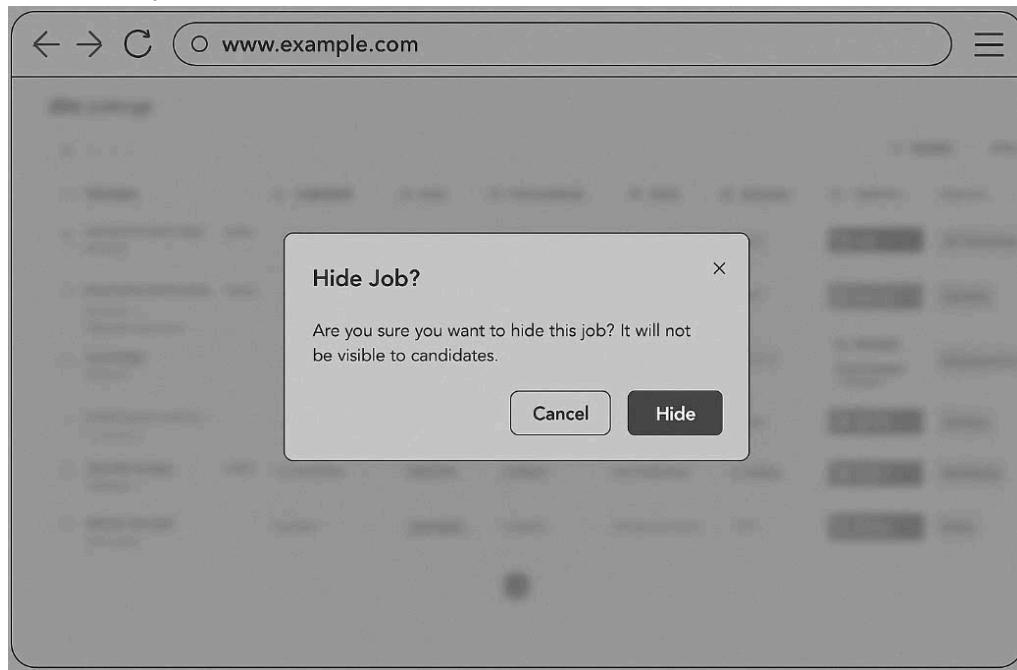
- Function details:

- Data: Job Title, Company Name, Job Location, Category, Job Type (Full-time, Part-time, Freelance, etc.), Experience, Salary Range
- Validation:
  - Ensure at least one search criterion is entered.
  - Validate numeric inputs for offer range.
  - Ensure valid city names, tags, and work type selections.
- Business rule: BR-34, BR-35, BR-36
- Functionality:
  - In Normal Cases:
    - The system displays relevant job listings based on search and filters.
    - Pagination allows users to navigate between pages.
  - In Abnormal Cases:
    - No Results Found: Display a message and suggest broader search criteria.
    - Invalid Input: Show an error for incorrect formats.
    - Data Load Failure: Retry fetching results or show an error message.

#### **3.4.8 Hide Job Posting**

- Function trigger: The employer clicks on the "Hide" button next to a job posting in their job management dashboard.

- Function description: This function allows employers to temporarily hide their job postings from public view without deleting them. Hidden jobs remain in the system but are not visible to candidates in search results or job listings. Employers can later unhide these jobs when they want to make them visible again. pricing, duration, and specific features available to users who purchase this plan.
- Screen layout:

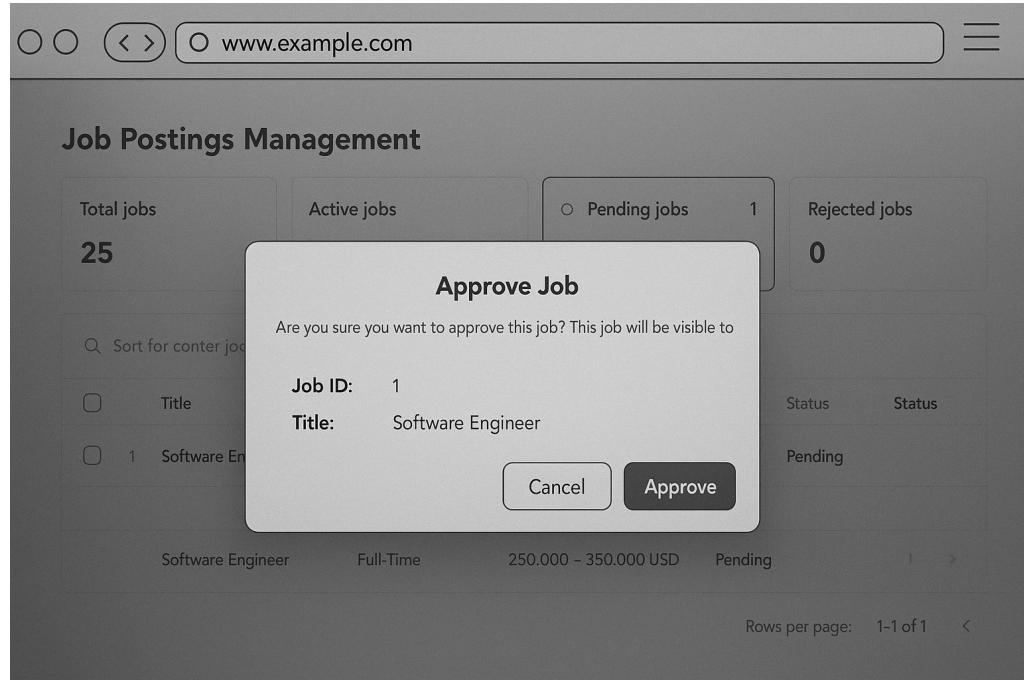


- Function details:
  - Data:
    - Job ID
    - Current status (Active, Pending, Hidden)
  - Validation:
    - Verify that the user is the owner of the job posting or has admin rights
    - Verify that the job status is valid for hiding (not already hidden)
  - Business rule: BR-50, BR-51, BR-52, BR-53, BR-54
  - Functionality:
    - In Normal Cases: Employer clicks the "Hide" option from the job action menu. System displays a confirmation dialog. Employer confirms the hide action. System updates the job posting status to "Hidden". System displays success message: "Job posting has been hidden". The job posting no longer appears in public job listings but remains accessible in the employer's dashboard.
    - In Abnormal Cases: If the job is already hidden: "This job posting is already hidden" message appears. If system error occurs: "Unable to hide job posting. Please try again later" error appears. If the job has pending applications that require action: "Please review all pending applications before hiding this job posting" warning appears.

### **3.4.9 Approve Job Posting**

- Function trigger: The admin clicks on the "Approve" button next to a pending job posting in the admin job management dashboard.
- Function description: This function allows administrators to approve job postings submitted by employers before they are published on the platform.

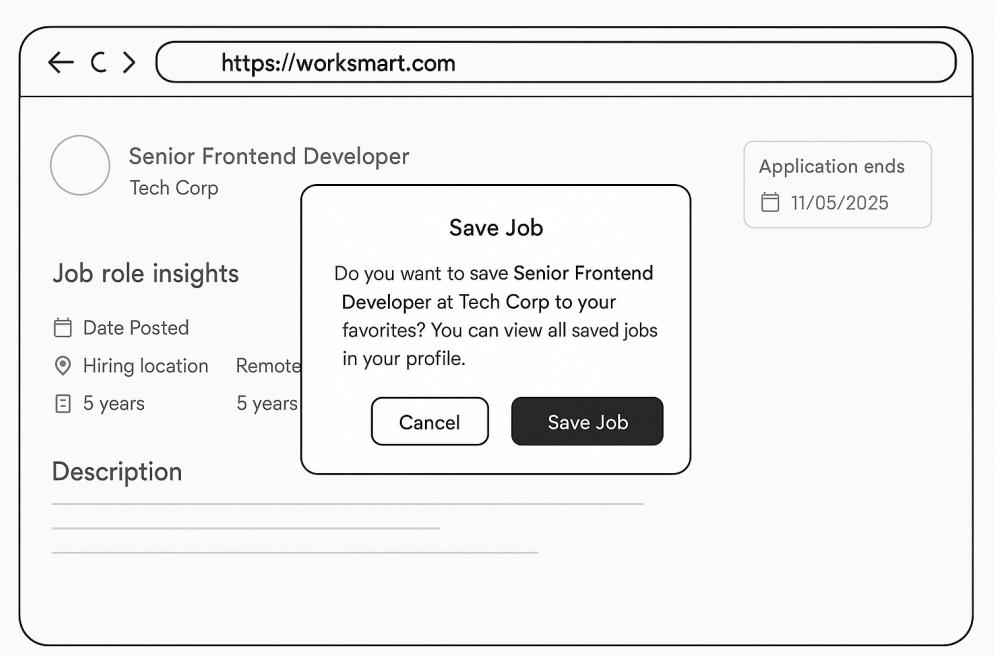
- Screen layout:



- Function details:
  - Data:
    - Job ID
    - Status (Active)
  - Validation:
    - Verify that the job status is "Pending" (awaiting approval)
    - Validate that all required job fields are completed
  - Business rule: BR-55, BR-56, BR-57, BR-58, BR-59, BR-60
  - Functionality:
    - In Normal Cases: Admin reviews the job details. Admin determines the job meets platform guidelines. Admin optionally adds review comments. Admin clicks the "Approve" button. System updates job status to "Active". System sends notification to employer: "Your job posting has been approved". The job posting appears in public job listings.
    - In Abnormal Cases: If admin rejects the job: Status changes to "Rejected" and employer receives notification with rejection reasons. If admin requests changes: Status changes to "Changes Requested" and employer receives notification with required changes. If system error occurs: "Unable to process approval. Please try again later" error appears. If required review comments are missing during rejection: "Please provide a reason for rejection" message appears.

#### **3.4.10 Add To Favourite**

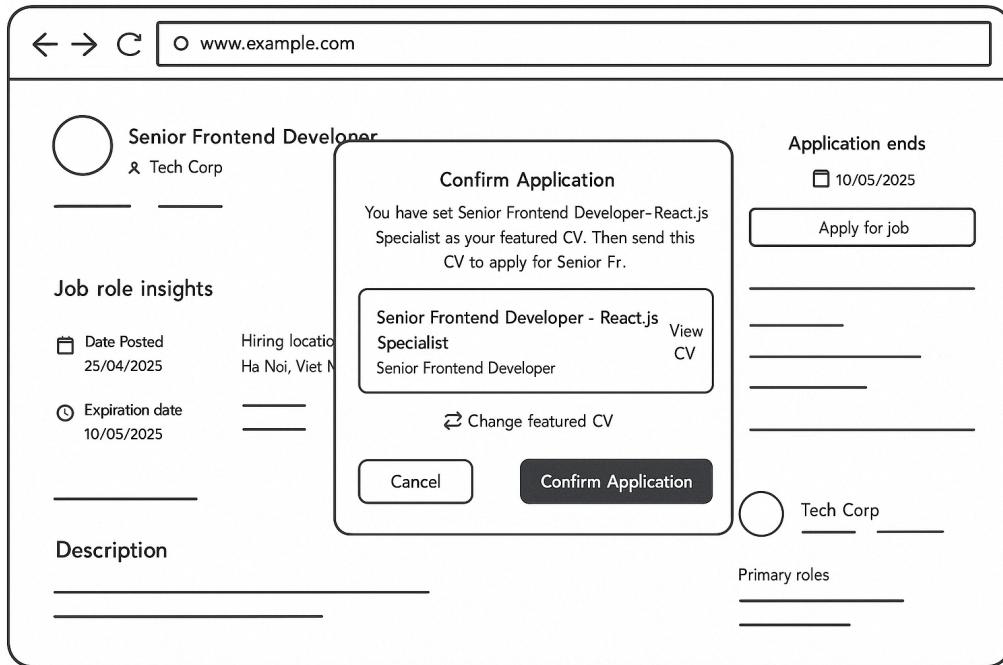
- Function trigger: The candidate clicks on the "Add to Favourites" or heart icon on a job posting.
- Function description: This function allows candidates to save jobs they are interested in to their favorites list for easier access later. Favorited jobs are stored in the candidate's account and can be accessed from their dashboard, enabling them to track potential opportunities without immediately applying.
- Screen layout:



- Function details:
  - Data:
    - Job ID
    - User ID (candidate)
    - Timestamp of when the job was favorited
  - Validation:
    - Verify that the user is logged in
    - Verify that the job exists and is active
    - Check if the job is already in the user's favorites list
  - Business rule: BR-61, BR-62, BR-63, BR-64, BR-65, BR-66
  - Functionality:
    - In Normal Cases: Candidate clicks the "Favourite" button on a job listing. System checks if the job is already in favorites. If not, system adds the job to the candidate's favorites list. System displays a confirmation message: "Added to your favourites!". The favorite button changes to indicate the job is favorited (filled heart icon). Candidate can view the job in their "Saved Jobs" section.
    - In Abnormal Cases :If user is not logged in: "Please log in to save this job" message appears with login prompt. If job is already in favorites: "This job is already in your favourites" message appears. If job is no longer available: "This job is no longer available" message appears, but user can still add it. If system error occurs: "Unable to save job. Please try again later" error appears.

#### **3.4.11 Apply For Job**

- Function trigger: The candidate clicks on the "Apply Now" button on a job posting.
- Function description: This function allows candidates to submit job applications for positions they are interested in. Candidates can select a CV from their profile, add a cover letter, answer screening questions if required, and submit their application to employers. The system tracks application status and provides updates to candidates.
- Screen layout:



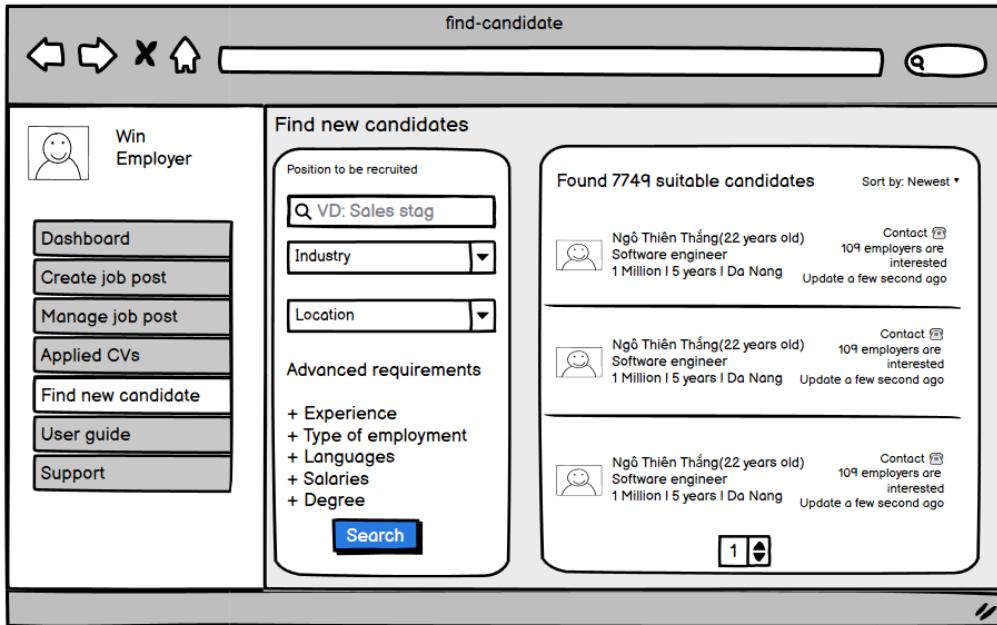
- Function details:
  - Data:
    - Job ID
    - User ID (candidate)
    - Featured CV ID
  - Validation:
    - Verify that the user is logged in
    - Verify that the job exists and is active
    - Verify that the user has not already applied for this job
    - Verify that the user has a complete profile
  - Business rule: BR-67, BR-68, BR-69, BR-70, BR-71, BR-72, BR-73
  - Functionality:
    - In Normal Cases: Candidate selects a CV from their profile or uploads a new one as a featured CV. Candidate accepts terms and conditions. Candidate clicks the "Submit Application" button. System creates a new application record. System sends confirmation to the candidate: "Your application has been submitted successfully". System notifies the employer of the new application. Application status is set to "Pending".
    - In Abnormal Cases : If the user is not logged in: "Please log in to apply for this job" message appears with the login prompt. If the user has already applied: "You have already applied for this job" message appears. If profile is incomplete: "Please complete your profile before applying" message appears with link to profile. If CV is not selected: "Please select or upload a CV" error appears. If system error occurs: "Unable to submit application. Please try again later" error appears.

## 3.5 Candidate Management

### 3.5.1 Search For Candidate

- Function trigger: The user enters a keyword or selects filters to search for candidates that match the job requirements.

- Function description: The user can search for candidates based on criteria such as name, skills, experience, desired position, etc.
- Screen layout:



- Function details:
  - Validation:
    - Ensure that the search fields (keywords, filters) are valid and not empty.
  - Business rule: BR-12, BR-13
  - Functionality:
    - In Normal Cases:
      - The user enters a keyword or selects a search filter, and the system returns a list of matching candidates.
      - The user views the detailed profile of the candidates.
    - In Abnormal Cases:
      - If no matching results are found, the system will display an error message such as "No candidates found matching your criteria."
      - If there is a system error during the search process, the system will display an error message such as "There was an error in the search process, please try again later."

### 3.5.2 View Candidate's Profile

- Function trigger: The employer clicks on a candidate's name or profile link (e.g., from applications or search results).
- Function description: This function allows employers to view the full profile of a candidate, including personal information, skills, education, work experience, certificates, uploaded CV, and other relevant data.
- Screen layout:



- Function details:
  - Validation:
    - Candidate profile must exist.
    - The employer must have permission to view the profile (e.g., based on job application, subscription, or platform rules).
  - Business Rules:
    - BR-85: Only verified employers can view full candidate profiles.
    - BR-86: Candidate profile must exist and be active.
    - BR-87: CV file access should follow platform's visibility rules (e.g., private/public).
- Functionality:
  - In Normal Cases:
    - The employer sees the full candidate profile with all related data.
    - The employer can download or preview the uploaded CV.
    - The system ensures proper formatting and alignment for display.
  - In Abnormal Cases:
    - Candidate not found: The system displays "Candidate profile not found."
    - Unauthorized access: The system blocks access and shows "You do not have permission to view this profile."
    - CV missing: The system shows "No CV uploaded."

### **3.5.3 View List Favourite Job**

- Function trigger: The user (candidate) navigates to the "Favourite Jobs" or "Saved Jobs" section in their profile/dashboard.
- Function description: This function displays a list of jobs that the user has previously marked as favourite/saved. Users can view job details, apply directly, or remove jobs from the list.
- Screen layout:

Job Title	Date Saved	Action
Lorem ipsum	3/28/2025	<button>View</button> <button>Delete</button>
Lorem ipsum	4/1/2025	<button>View</button> <button>Delete</button>
Lorem ipsum	4/7/2025	<button>View</button> <button>Delete</button>

Showing 1 to 3 of 3 entries

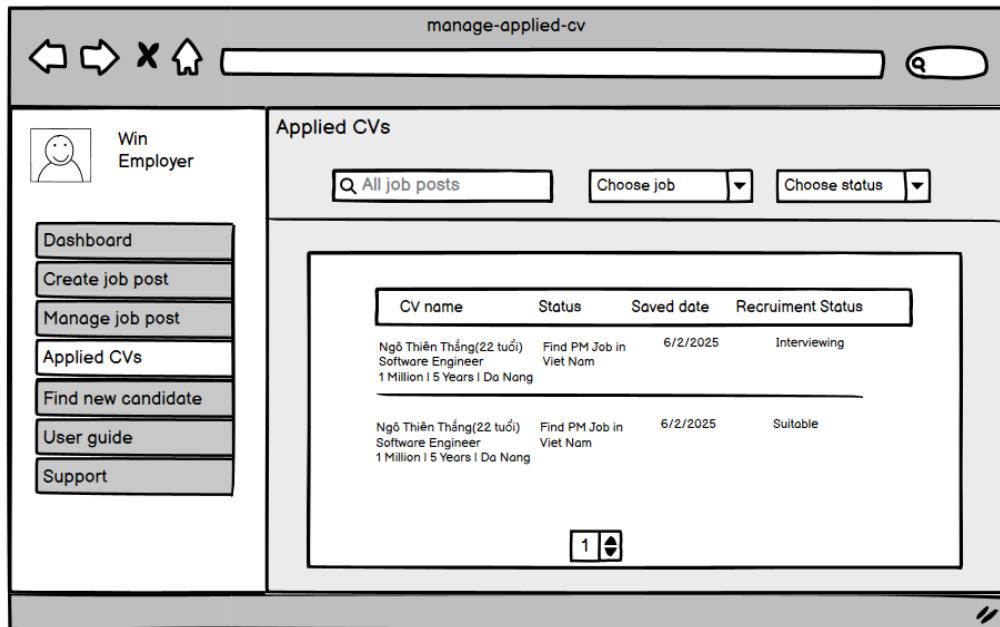
- Function details:
  - Validation:
    - The user must be logged in to view their saved jobs.
    - Each job in the list must still exist in the system (valid job ID).
  - Business Rules:
    - BR-88: Only logged-in users can access their saved jobs list.
    - BR-89: Deleted or expired jobs should be clearly marked or hidden.
    - BR-90: The list must be paginated if it exceeds a certain number of entries.
- Functionality:
  - In Normal Cases:
    - The system displays a list of all favoured jobs.
    - Users can click on a job to view full details.
    - Users can apply to the job directly from this list.
    - Users can remove jobs from their favourites.
  - In Abnormal Cases:
    - User not logged in: System redirects to login or shows an error.
    - Job no longer available: The system marks the job as expired or removed.
    - System error: Displays "Unable to load favourite jobs. Please try again later."

### 3.6 Profile & CV Management

#### 3.6.1 View List Of CV Applied

- Function trigger: The user clicks on the "Applied CV" button or navigates to the page where CVs of candidates are listed.
- Function description: The user can view a list of CVs submitted by candidates that match a specific job post or search criteria.

- Screen layout:



- Function details:
  - Validation:
    - Ensure the user has the appropriate permissions (e.g., recruiter or admin) to view the list of CVs.
    - The CVs must be associated with the job post or criteria the user is viewing.
  - Business rule: BR-14
  - Functionality:
    - In Normal Cases:
      - The system successfully displays the list of CVs matching the criteria.
      - If there are no filters applied, all CVs related to the job post or search criteria will be shown.
    - In Abnormal Cases:
      - If the user does not have the necessary permissions to view the CVs, an error message such as "You do not have permission to view the list of CVs." will be displayed.
      - If there are no CVs matching the selected criteria, the system will show a message such as "No CVs found for the selected criteria."

### 3.6.2 View CV detail

- Function trigger: The user navigates to the CV detail page.
- Function description: This function allows users to view their detailed CV, including personal information, skills, education, certifications, and experience. Users can also edit, delete, or download their CV.

- Screen layout:

The screenshot shows a web browser window titled 'WorkSmart' with the URL 'https://worksmart/CreateCV'. The page displays a resume template for 'Nguyen Van A', a BE Developer from Da Nang, with contact information: phone number 0915197774. The resume is structured into four main sections: Skills, Education, Certificate, and Experience. The Skills section lists C#, ASP.NET, Java, and HTML/CSS. The Education section shows a Bachelor's degree in Software Engineering from FPT Da Nang University. The Certificate section includes academic skills for university success (2022), software development lifecycle (2023), and project management principles and practices (2024). The Experience section lists work at FSof Danang from 2021-2022 as a .NET Back-end developer, building websites. At the bottom right are three buttons: 'Delete' (red), 'Edit' (blue), and 'Download' (green).

- Function details:
  - Validation:
    - Ensure the CV exists before displaying.
    - Validate user permissions to view, modify, or download the CV.
  - Business rule: BR-23, BR-24
  - Functionality:
    - In Normal Cases:
      - The system displays the CV correctly.
      - Users can edit, delete, or download the CV if authorized.
    - In Abnormal Cases:
      - CV Not Found: Show an error message.
      - Unauthorized Access: Restrict actions.
      - Delete/Download Failure: Display an error.

### 3.6.3 Create CV

- Function trigger:
  - The user navigates to the "Create CV" page.
  - The user fills in personal details, skills, education, experience, and certificates.
  - The user clicks the "Save" button to generate a CV.
- Function description: This function allows users to create a professional CV by inputting personal information, skills, education, experience, and certificates. The system provides a preview of the CV before saving.

- Screen layout:

The screenshot shows the 'WorkSmart' application's 'CreateCV' page at the URL <https://worksmart/CreateCV>. The interface is divided into several sections:

- Your picture:** A placeholder for a profile picture with a 'Browser' button.
- Description:** A text input field containing "Nguyen Van A 0915197774 Da nang BE Developer".
- Skills:** A list of skills: C#, ASP.NET, Java, Html/Css, with a '+' button to add more.
- Education:** A list of education entries: Bachelor - Software Engineering 2021-2025 FPT Da Nang University, with a '+' button to add more.
- Experience:** A list of experience entries: FSoft Danang 2021-2022 .NET Back-end developer, build website find job, with a '+' button to add more.
- Certificate:** A list of certificates: Academic Skills for University Success (2022), Software Development Lifecycle (2023), Project Management Principles and Practices (2024), with a '+' button to add more.
- Profile Summary:** On the right, it shows the user's name "Nguyen Van A", title "BE Developer", phone "0915197774", location "Da nang", and a summary of their skills, education, and experience.
- Buttons:** At the bottom right are 'Cancel' and 'Save' buttons.

- Function details:

- Validation:
  - Profile Picture: Only .jpg, .png (max 5MB).
  - Personal Info: Required fields (name, phone, location, job title); valid formats enforced.
  - Skills: At least one required, max 50 characters per skill.
  - Education: Degree, institution, and valid year range required.
  - Experience: Company, position required; description max 500 characters.
  - Certificates: Optional but must include title and valid year.
- Business rule: BR-25, BR-26, BR-27, BR-28, BR-29, BR-30
- Functionality:
  - In Normal Cases:
    - The system successfully saves the CV with all provided information.
    - The user can view and edit the saved CV later.
    - The system ensures proper formatting and alignment.
  - In Abnormal Cases:
    - Missing required fields: System prompts the user to complete missing information.
    - Invalid file upload: If the image format is not supported, an error message is displayed.
    - Unexpected errors: If saving fails, the system notifies the user and suggests retrying.

### 3.6.4 Edit CV

- Function trigger:
  - The user navigates to the "Edit CV" page.
  - The user modifies personal details, skills, education, experience, or certificates.
  - The user clicks "Save" to update the CV.

- Function description: This function allows users to edit their existing CV, updating any section as needed. The system provides a live preview before saving changes.
- Screen layout:

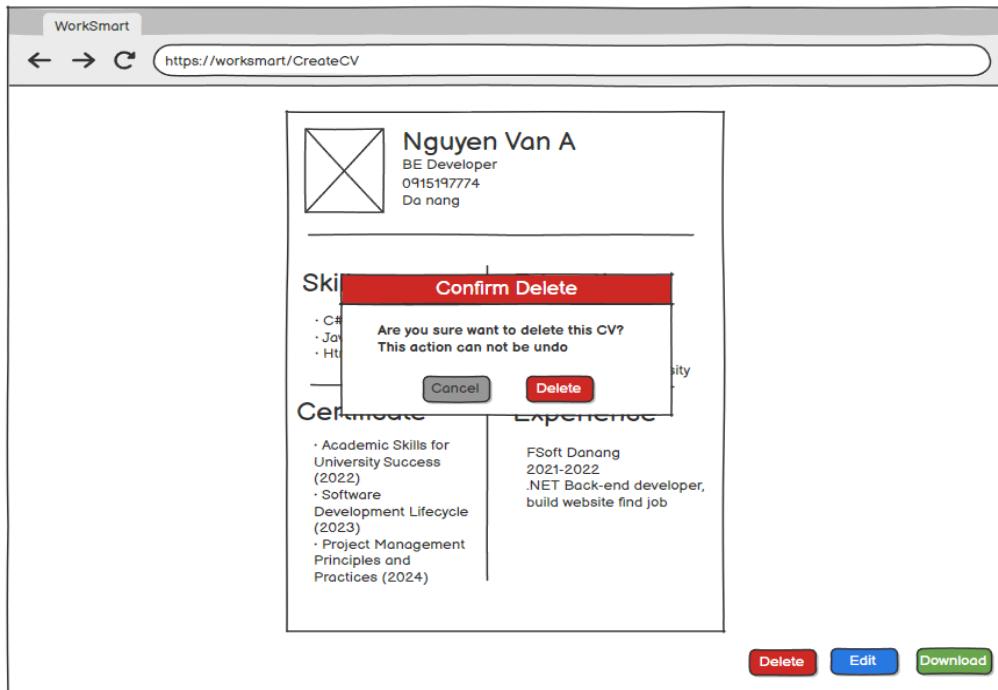
The screenshot shows the 'WorkSmart' application's 'CreateCV' page. At the top, there's a placeholder for 'Your picture' with a 'Browser' button. Below it is a 'Description' field containing 'Nguyen Van A, 0915197774, Da nang, BE Developer'. The 'Skills' section lists 'C#, ASP.NET, Java, Html/Css' with a '+' button. The 'Education' section shows 'Bachelor - Software Engineering, 2021-2025, FPT Da Nang University' with a '+' button. The 'Experience' section shows 'FSoft Danang, 2021-2022, .NET Back-end developer, build website find job' with a '+' button. The 'Certificate' section lists 'Academic Skills for University Success (2022), Software Development Lifecycle (2023), Project Management Principles and Practices (2024)' with a '+' button. On the right, a preview panel displays the user's name 'Nguyen Van A', title 'BE Developer', phone '0915197774', and location 'Da nang'. It also shows sections for 'Skills' (C#, ASP.NET, Java, Html/Css), 'Education' (Bachelor - Software Engineering, 2021-2025, FPT Da Nang University), 'Certificate' (Academic Skills for University Success (2022), Software Development Lifecycle (2023), Project Management Principles and Practices (2024)), and 'Experience' (FSoft Danang, 2021-2022, .NET Back-end developer, build website find job). At the bottom right are 'Cancel' and 'Save' buttons.

- Function details:
  - Validation:
    - Profile Picture: Only .jpg, .png (max 5MB).
    - Personal Info: Required fields (name, phone, location, job title); valid formats enforced.
    - Skills: At least one required, max 50 characters per skill.
    - Education: Degree, institution, and valid year range required.
    - Experience: Company, position required; description max 500 characters.
    - Certificates: Optional but must include title and valid year.
  - Business rule: BR-25, BR-26, BR-27, BR-28, BR-29, BR-30
  - Functionality:
    - In Normal Cases:
      - The system successfully updates and saves the CV.
      - The user can view and edit it later.
    - In Abnormal Cases:
      - Missing required fields: System prompts the user to complete missing information.
      - Invalid file upload: If the image format is not supported, an error message is displayed.
      - Unexpected errors: If saving fails, the system notifies the user and suggests retrying.

### 3.6.5 Delete CV

- Function trigger: The user clicks the "Delete" button on the CV detail page.
- Function description: Users can delete their CV after confirming the action.

- Screen layout:



- Function details:
  - Validation:
    - Ensure the CV exists.
    - Verify the user has permission to delete it.
  - Business rule: BR-31, BR-32, BR-33
  - Functionality:
    - In Normal Cases:
      - The system deletes the CV and provides feedback.
    - In Abnormal Cases:
      - CV Not Found: Show an error message.
      - Unauthorized Access: Restrict deletion.
      - Deletion Failure: Display an error message.

### **3.6.6 View profile information**

- Function trigger: User clicks on "Thông tin cá nhân" from the menu bar
- Function description: Displays the user's personal information, including name, email, profile picture, phone number, and other information.
- Screen layout:



- Function details:
  - Data: Include Name, Email, Phone number, Avatar,...
  - Validation:
    - Email must be in correct format.
    - Phone number must be valid.
    - Profile image must be in appropriate format (.JPG, .JPEG, .PNG less than 300 KB with minimum size 300x300 px).
  - Business rule: BR-21, BR-22
  - Functionality:
    - In Normal Cases: When the user clicks on View Profile, the system displays the user's personal information including name, email, phone number, avatar, etc. The user can update personal information if needed.
    - In Abnormal Cases: If the user is not logged in, the system displays a message asking them to log in. If the information is not available (for example, an avatar has not been uploaded), the system displays the message "No avatar yet."

### 3.6.7 Upload CV

- Function trigger: The user navigates to the "Upload CV" page or section. The user selects a CV file from their device and clicks the "Upload" button.
- Function description: This function allows users to upload an existing CV file (in PDF or DOCX format) to their profile. The system validates the file and stores it securely. Users can later download or replace their uploaded CV.

- Screen layout:

The screenshot displays the 'CV Management Dashboard' interface. At the top, there are three cards: 'Your CVs' (1), 'System CVs' (0), and 'Uploaded CVs' (1). Below these is a search bar labeled 'Search CV files...'. The 'Uploaded CVs' section contains a single entry for a file named 'fourpmznanod5sabiefium.pdf', which includes icons for viewing and featuring.

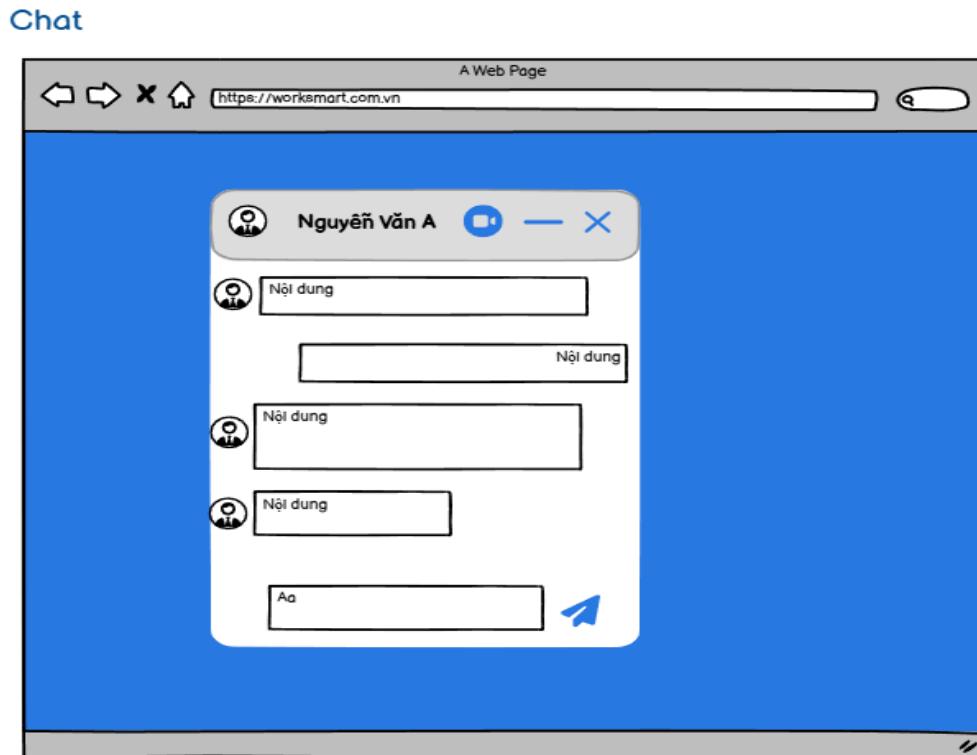
- Function details:
  - Validation:
    - File format: Only .pdf and .docx files are accepted.
    - File size: Maximum size is 5MB.
    - File name: Must not contain special characters (e.g., \*, ?, <, >, |).
    - One CV file per user – uploading a new file will overwrite the existing one.
  - Business Rules:
    - BR-80: The uploaded file must be in .pdf or .docx format.
    - BR-81: File size must not exceed 5MB.
    - BR-82: Only one CV file is allowed per user at any time.
    - BR-83: If a new CV is uploaded, the old one is automatically replaced.
    - BR-84: File name must not include forbidden special characters.
  - Functionality:
    - In Normal Cases:
      - The system validates the file format and size.
      - The CV is uploaded and stored successfully.
      - A confirmation message is displayed.
      - The user can view or download the uploaded CV from their profile.
    - In Abnormal Cases:
      - Invalid file format: The system shows an error message like "Unsupported file type. Please upload a .pdf or .docx file."
      - File too large: The system displays "File exceeds maximum size (5MB)."
      - File name invalid: The system notifies the user to rename the file.
      - Upload failure: The system notifies the user with "Upload failed. Please try again."

## 3.7 Chat and Meeting

### 3.7.1 Chat

- Function Trigger: The user clicks on the "Chat" icon in the navigation bar or a user's profile.

- Function Description: Allows users to start a chat conversation with other users.
- Screen Layout:



- Function Details:
  - Data:
    - Message content
    - File attachments (images, videos, documents)
    - Read receipts (sent, seen, delivered)
  - Validation:
    - Messages cannot be empty.
    - File attachments must be within 25MB.
- Functionality:
  - In Normal Cases: Messages are sent instantly and appear in the chat window. The recipient receives a notification when a new message arrives. Messages are encrypted for security.
  - In Abnormal Cases: User Not Found: Display error "The user does not exist or has been deleted.". Unauthorized Access: If the user is blocked or not allowed to chat, display "You cannot send messages to this user.". Message Sending Failure: If the system encounters an error, display "Unable to send the message. Please try again later."

## 3.8 Reports Management

### 3.8.1 Report Candidate

- Function Trigger: The user clicks "Report" on another user's profile.
- Function Description: Allows users to report inappropriate behavior.
- Screen Layout:

A Web Page  
<https://worksmaart.com.vn>

**Report user**

Tin tuyển dụng	User xxx
Họ và tên: *	<input type="text" value="Họ và tên"/>
Số điện thoại: *	<input type="text" value="0123xxxxxx"/>
Địa chỉ: *	<input type="text" value="Địa chỉ"/>
Địa chỉ email: *	<input type="text" value="Email"/>
Nội dung: *	<p>Bạn vui lòng cung cấp rõ thông tin hoặc bất kỳ bằng chứng (nếu có) chúng tôi sẽ xử lý sớm nhất cho bạn...</p>
<input type="button" value="Gửi"/> <input type="button" value="Đóng"/>	

- Function Details:
  - Data:
    - Reason for the report
    - Full Name only text (max 100 characters)
    - Phone only number (max 12 characters)
    - Description and address (optional, max 500 characters)
    - Screenshot (optional, max 5MB)
  - Validation: Users must select at least one reason.
  - Functionality:
    - In Normal Cases: The system stores the report and sends a notification to the admin for review. The user receives a confirmation message: "Your report has been successfully submitted." . If the report is valid, the admin can take appropriate actions (warning or account suspension).
    - In Abnormal Cases: User Not Found: Display error message "The user does not exist or has been deleted." . Unauthorized Access: If the

user attempts to report themselves or has restricted reporting rights, display "You are not authorized to perform this action." . Report Submission Failure: If the system fails to process the report, display "Unable to submit the report. Please try again later."

### 3.8.2 Report Content

- Function Trigger: The user clicks "Report" on a post or comment.
- Function Description: Allows users to report posts, comments, or images.
- Screen Layout:

- Function Details:
  - Data:
    - Reason for the report
    - Full Name only text (max 100 characters)
    - Phone only number (max 12 characters)
    - Description and address (optional, max 500 characters)
    - Screenshot (optional, max 5MB)
  - DataValidation: Reports must contain at least one reason.
  - Functionality:
    - In Normal Cases: The system sends the report to the admin for review. The user receives a confirmation message: "Your report has been successfully submitted." If the content violates the rules, the admin can hide or delete it.
    - In Abnormal Cases: Content Not Found: If the reported post/comment has been deleted, display . "This content no longer exists." . Unauthorized Access: If the user has restricted reporting permissions, display "You are not authorized to report this content." . Report Submission Failure: If the system fails, display "Unable to submit the report. Please try again later."

### 3.8.3 View List Reports

- Function trigger: Admin accesses "Manage Reports" via dashboard sidebar.
- Function description: Displays a list of reports submitted by users related to job content, candidate behavior, or other violations. The list includes filters by status, type, and submission date.
- Screen layout:

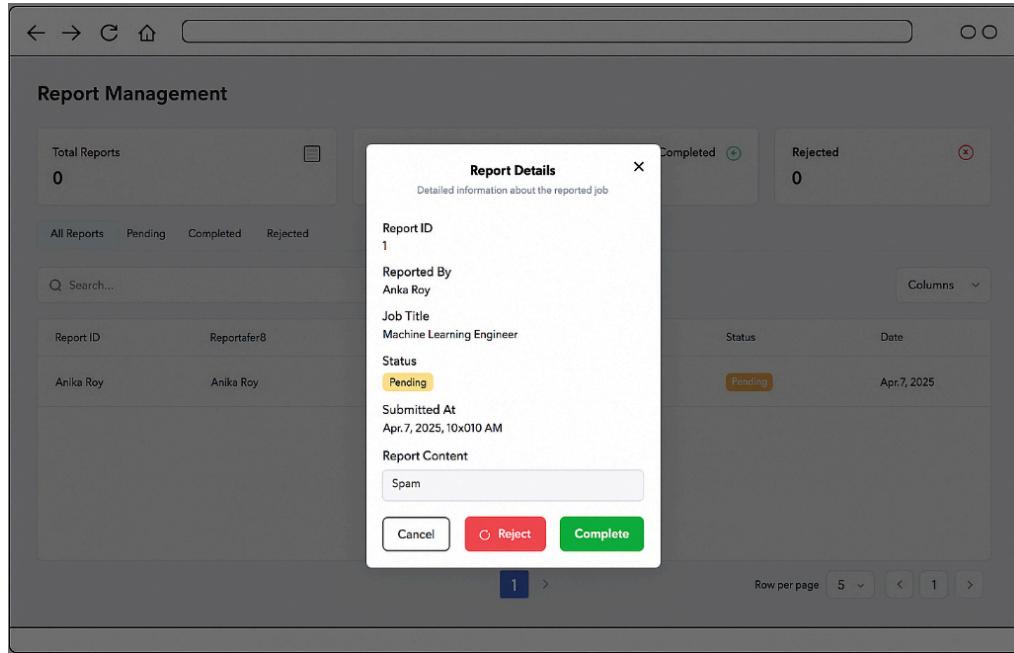
The screenshot shows a web-based application titled "Report Management". At the top, there is a navigation bar with icons for back, forward, refresh, and home, followed by the URL "www.example.com" and a menu icon. Below the navigation is a summary section with four boxes: "Total Reports" (0), "Pending" (0), "Completed" (0 with a checkmark), and "Rejected" (0). Below this is a search bar with dropdowns for "All Reports", "Pending", "Completed", "Rejected", a search input "Search content...", and a "Columns" button. A table header row follows with columns: "Reported By", "Job", "Report Content", "Status", "Submitted At", and "Actions". The main content area below the table header contains the message "No result.". At the bottom, it shows "0 of 0 row(s) selected.", pagination controls for "Rows per page" (set to 5), "Page 1 of 1", and navigation arrows.

- Function details:
  - Validation: Only Admin role can view the report list.
  - Business rule: BR-39
  - Functionality:
    - In Normal Cases:
      - Admin sees paginated list with search/filter/sort features.
    - In Abnormal Cases:
      - Show error: "Unable to retrieve report data."

### 3.8.4 Approve or Reject Reports

- Function trigger: Admin selects a report and clicks either "Approve" or "Reject".
- Function description: Allows the admin to take action on reports. If approved, the system applies penalties (e.g., hides job post, suspends user). If rejected, the report is closed without penalty.

- Screen layout:



- Function details:
  - Validation:
    - Report must exist and must be in "Pending" status.
    - Admin must confirm action.
  - Business rule: BR-40, BR-41
  - Functionality:
    - In Normal Cases:
      - System updates report status to Approved/Rejected.
      - Corresponding notification is sent to the reporter.
    - In Abnormal Cases:
      - If a decision fails, show: "Action could not be completed."

## 3.9 Transactions Management

### 3.9.1 View Transactions History

- Function trigger: User clicks on "Transaction History" in the Wallet section.
- Function description: Shows all financial activity of a user including plan purchases, refunds, job post payments with filtering by date and type.

- Screen layout:

#	Order Code	Content	Amount	Status	Date
1	KGR452399482	Pay Candidate Free	0 VND	CANCELLED	18/4/2025
2	YC1528349274	Pay Candidate Pro max	15:000 VND	NEW	18/4/2025
3	423429243452	Pay Candidate	1:235 VND	PAID	18/4/2025

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- Function details:

- Validation:
  - Users must be logged in.
  - Date range, if applied, must be valid.
- Business rule: BR-21
- Functionality:
  - In Normal Cases:
    - List is sorted by date (default: newest first).
    - Filter by: date range, type (payment, refund), status.
  - In Abnormal Cases:
    - If no results: Show "No transactions found."
    - If fetch fails: Show "Unable to load transaction history."

### 3.9.2 Download Transaction List

- Function trigger: The admin or user clicks on the "Download Transactions" button in the transaction management page.
- Function description: This function allows administrators and users to download a list of financial transactions in various formats (CSV, Excel) for record-keeping, accounting, or auditing purposes. Administrators can download all transactions or filter by specific criteria, while users can only download their own transaction history.

- Screen layout:

#	Order Code	Content	Amount	Status	Date
1	KGR4521992482	Pay Candidate Free	0 VND	CANCELLED	18/4/2025
2	YC15824949244158	Pay Candidate Pro max	15.000 VND	NEW	18/4/2025
3	432349234352	Pay Candidate	0 VND	PAID	18/4/2025

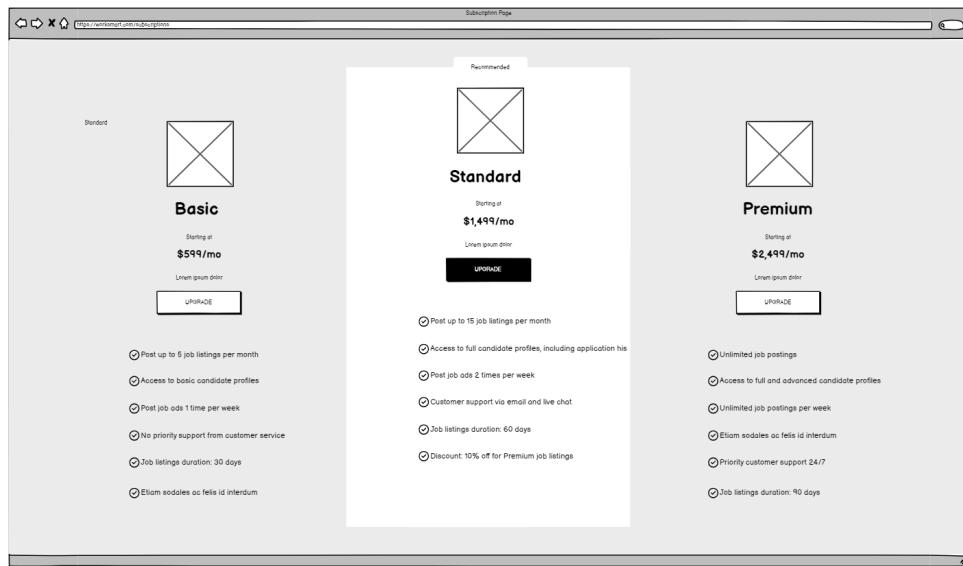
- Function details:

- Data:
  - Transaction IDs
  - User information
  - Transaction amounts
  - Transaction statuses (Completed, Pending, Failed)
  - Transaction types (Subscription Payment)
  - Transaction dates
  - Transaction content/descriptions
- Validation:
  - Administrators can access all transactions
- Business rule: BR-74, BR-75, BR-76, BR-77, BR-78, BR-79
- Functionality:
  - In Normal Cases: User selects desired date range and filter criteria. User chooses the preferred format (CSV, Excel). User clicks the "Download" button. System validates the request. System generates the file with the appropriate transaction data. System initiates the download. Browser saves the file to the user's device. System logs the download action for security purposes.
  - In Abnormal Cases: If user lacks permission: "You don't have permission to download these transactions" error appears. If no transactions match the filter criteria: System notifies "No transactions found for the selected criteria". If file generation fails: "Unable to generate download file. Please try again later" error appears. If download is too large: System suggests narrowing the date range or applying additional filters. If system error occurs: "Download failed. Please try again later" error appears.

## 3.10 Subscription Plans Management

### 3.10.1 View Subscription Plans

- Function trigger: The user clicks on the "Subscription Plans" section from the navigation menu.
- Function description: The user can view various subscription plans available for upgrading their account.
- Screen layout:

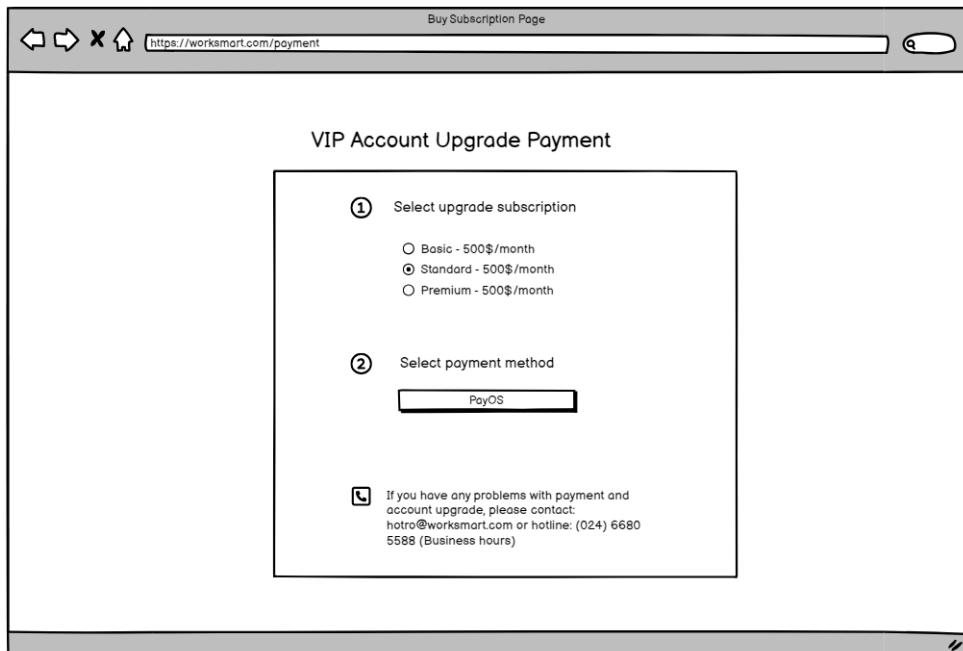


- Function details:
  - Validation:
    - Ensure all displayed plans are currently available.
  - Business rule: BR-07
  - Functionality:
    - In Normal Cases: The user can select upgrade the subscription plans and proceed to purchase.
    - In Abnormal Cases: If no plans are available, a message like "No subscription plans available at this time" appears. If there's a server issue, an error message like "Unable to load subscription plans, please try again later" appears.

### 3.10.2 Buy Subscription Plans

- Function trigger: The user selects a subscription plan and clicks on the "Upgrade" button.
- Function description: The user purchases a subscription plan to unlock premium features.

- Screen layout:

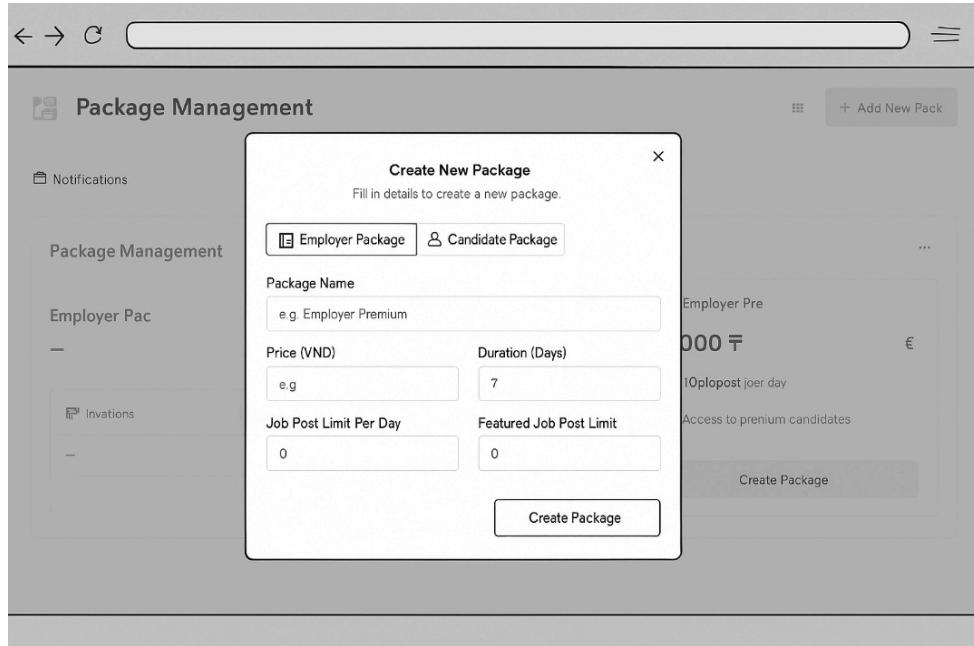


- Function details:
  - Data:
    - Selected Subscription Plan
  - Validation:
    - Ensure all displayed plans are currently available.
  - Business rule: BR-08
  - Functionality:
    - In Normal Cases: The system processes the payment and activates the subscription successfully.
    - In Abnormal Cases: If payment fails, an error message such as "Payment failed, please try again" appears. If there's a server issue, an error message such as "Unable to process your request, please try again later" appears.

### **3.10.3 Create Subscription Plans**

- Function trigger: The admin clicks on the "Create New Plan" button in the Subscription Plans management page.
- Function description: This function allows administrators to create new subscription plans for employers or candidates. The admin can define all plan details including pricing, duration, and specific features available to users who purchase this plan.

- Screen layout:



- Function details:

- Data:
  - Plan Type (Employer or Candidate)
  - Package Name
  - Price (VND)
  - Duration (days)
  - Employer-specific features:
    - Job Post Limit Per Day
    - Featured Job Post Limit
  - Candidate-specific features:
    - CV Limit
- Validation:
  - Package Name is required and must be unique (max 100 characters)
  - Price must be a positive number
  - Duration must be a positive integer (minimum 1 day)
  - Job Post Limit Per Day must be a positive integer (if Employer plan)
  - Featured Job Post Limit must be a positive integer (if Employer plan)
  - CV Limit must be a positive integer (if Candidate plan)
  - Fields not relevant to the selected plan type are automatically disabled
- Business rule: BR-39, BR-40, BR-41, BR-42, BR-43
- Functionality:
  - In Normal Cases: Admin fills out all required fields, system validates the input data, creates a new subscription plan, displays a success message: "Subscription plan created successfully", the new plan appears in the subscription plans list
  - In Abnormal Cases: If required fields are missing: "Please fill in all required fields" error appears. If package name already exists: "A plan with this name already exists" error appears. If numeric values are invalid: "Please enter valid numeric values" error appears. If

server error occurs: "Unable to create subscription plan. Please try again later" error appears.

#### 3.10.4 Update Subscription Plans

- Function trigger: The admin clicks on the "Edit" button next to a subscription plan in the Subscription Plans management page.
- Function description: This function allows administrators to modify existing subscription plans, updating any of the plan's attributes such as name, price, duration, and associated features.
- Screen layout:

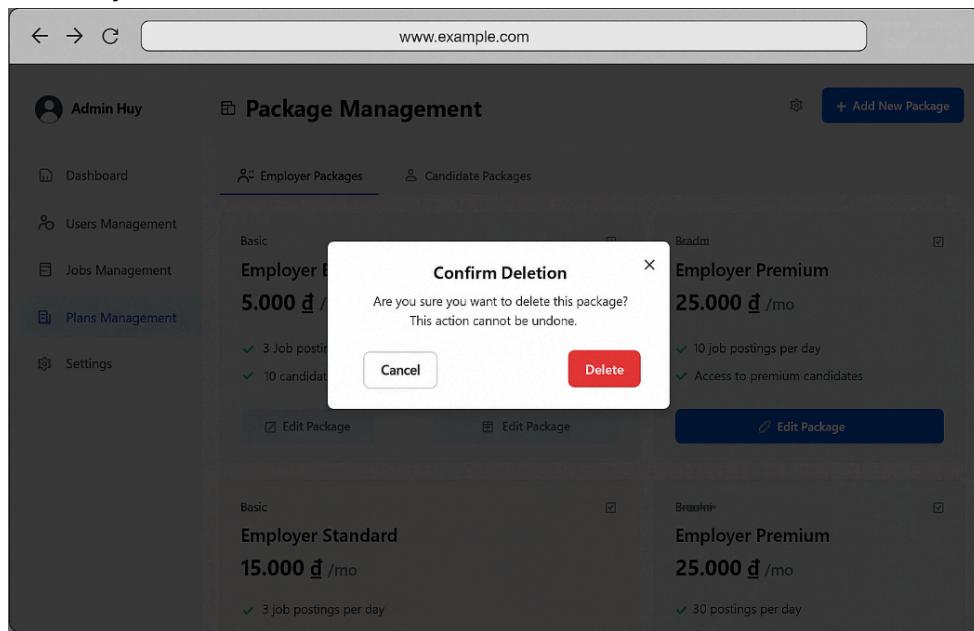
The screenshot shows a user interface for editing a subscription package. At the top, there are two tabs: 'Employer Package' (selected) and 'Candidate Package'. Below the tabs, there are four input fields arranged in a grid. The first row contains 'Package Name' (Employer Basic) and 'Duration (Days)' (7). The second row contains 'Job Post Limit Per Day' (3) and 'Featured Job Post Limit' (2). At the bottom right is a large 'Update Package' button.

- Function details:
  - Data:
    - Package Name
    - Price (VND)
    - Duration (days)
    - Employer-specific features:
      - Job Post Limit Per Day
      - Featured Job Post Limit
    - Candidate-specific features:
      - CV Limit
  - Validation:
    - Package Name is required and must be unique (max 100 characters)
    - If changing the name, it must be unique in the system
    - Price must be a positive number
    - Duration must be a positive integer (minimum 1 day)
    - Job Post Limit Per Day must be a positive integer (if Employer plan)
    - Featured Job Post Limit must be a positive integer (if Employer plan)
    - CV Limit must be a positive integer (if Candidate plan)
    - Plan type (Employer/Candidate) cannot be changed after creation
  - Business rule: BR-39, BR-40, BR-41, BR-42, BR-43, BR-44, BR-45
  - Functionality:

- In Normal Cases: Admin modifies the desired fields. System validates the input data. System updates the subscription plan. System displays a success message: "Subscription plan updated successfully". The updated plan appears in the subscription plans list with new details.
- In Abnormal Cases: If required fields are missing: "Please fill in all required fields" error appears. If new package name already exists: "A plan with this name already exists" error appears. If numeric values are invalid: "Please enter valid numeric values" error appears. If server error occurs: "Unable to update subscription plan. Please try again later" error appears.

### 3.10.5 Delete Subscription Plans

- Function trigger: The admin clicks on the "Delete" button next to a subscription plan in the Subscription Plans management page.
- Function description: This function allows administrators to delete subscription plans that are no longer needed. The system provides confirmation dialog to prevent accidental deletion.
- Screen layout:



- Function details:
  - Data:
    - Subscription Plan ID
  - Validation:
    - Verify the subscription plan exists
    - Check if there are any active users subscribed to this plan
  - Business rule: BR-39, BR-46, BR-47, BR-48, BR-49
  - Functionality:
    - In Normal Cases: Admin clicks the "Delete" button for a subscription plan. System shows a confirmation dialog. Admin confirms deletion. System checks if the plan can be deleted (no active subscriptions). System deletes (or archives) the subscription plan. System displays a success message: "Subscription plan deleted successfully". The plan is removed from the subscription plans list.

- In Abnormal Cases: If the plan has active subscribers: "Cannot delete plan with active subscribers. Please deactivate the plan instead" error appears. If server error occurs: "Unable to delete subscription plan. Please try again later" error appears. If the plan was already deleted: "This subscription plan no longer exists" error appears.

## 3.11 Employer Management

### 3.11.1 Employer Verification

- Function trigger: The employer needs to complete verification steps before accessing certain features
- Function description: Employers must verify their email, tax ID, and business license to unlock job posting and candidate management capabilities
- Screen layout:

Verification Progress		Benefits of Verification						
<p>1 of 3 Steps Complete</p> <p><input checked="" type="checkbox"/> Step 1 Verify Email Address Verify your email to start the verification process.  <input type="button" value="Email Verified"/></p> <p><input checked="" type="checkbox"/> Step 2 Verify Tax Identification Number Submit your company's tax identification number for verification.  <input type="button" value="Verify Tax ID"/></p> <p><input checked="" type="checkbox"/> Step 3 Upload Business Registration Certificate Upload a document to verify your company's legal status  <input type="button" value="Upload Document"/></p>		<p>Post unlimited job listings Gain employer profile and contact information Receive "Verified Employer" badge in resource Access all features of our service</p>						
<p>Current Account Status</p> <table> <tr> <td>Job Postings:</td> <td>Disabled</td> </tr> <tr> <td>Messaging:</td> <td>Disabled</td> </tr> <tr> <td>List Candidates:</td> <td>Disabled</td> </tr> </table>			Job Postings:	Disabled	Messaging:	Disabled	List Candidates:	Disabled
Job Postings:	Disabled							
Messaging:	Disabled							
List Candidates:	Disabled							

- Function details:
  - Data:
    - Employer Email
    - Tax ID
    - Business License Documentation
  - Validation:
    - Ensure all verification items are complete and valid
  - Business rule: BR-37
  - Functionality:
    - In Normal Cases: The system verifies all required information and grants access to restricted features such as posting jobs and viewing applicant lists
    - In Abnormal Cases: If verification is incomplete, the system displays a message informing the employer which items remain unverified and restricts access to job posting and applicant management features

### 3.11.2 View Company's Profile

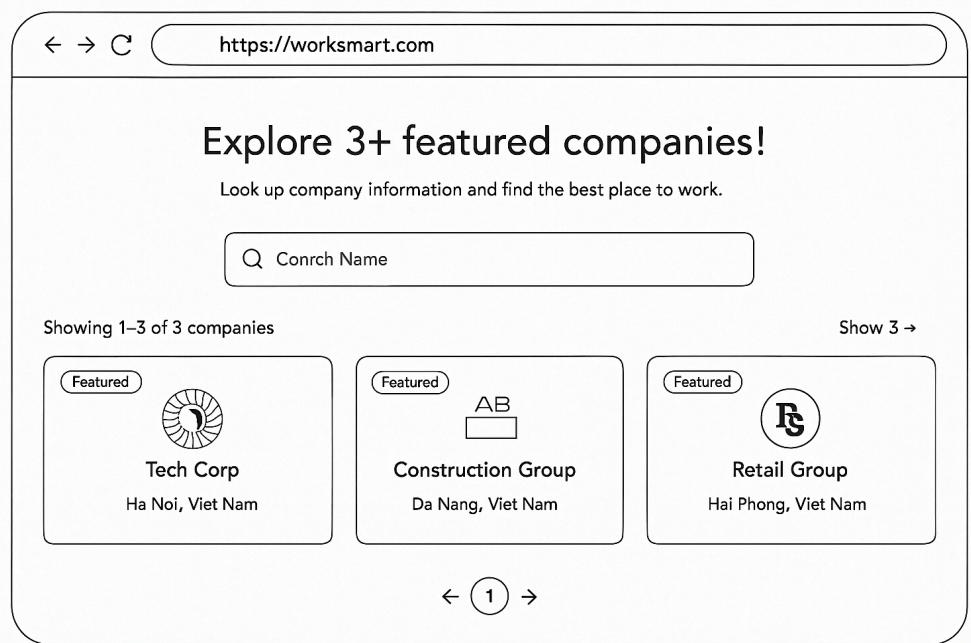
- Function trigger: The user selects or clicks on a company profile option/link

- Function description: The user views detailed information about a specific company
- Screen layout:

- Function details:
  - Data:
    - Company Profile Information (name, description, industry, size, etc.)
  - Validation:
    - Ensure the company profile exists and is accessible to the user
  - Business rule: BR-38
  - Functionality:
    - In Normal Cases: The system displays the complete company profile information to the user
    - In Abnormal Cases: If the company profile doesn't exist or cannot be accessed, an error message such as "Company profile not available" appears. If there's a server issue, an error message such as "Unable to load company profile, please try again later" appears.

### **3.11.3 Search Employers**

- Function trigger: The user enters search criteria and initiates a search for employers
- Function description: Users can search for employers/companies based on various criteria
- Screen layout:

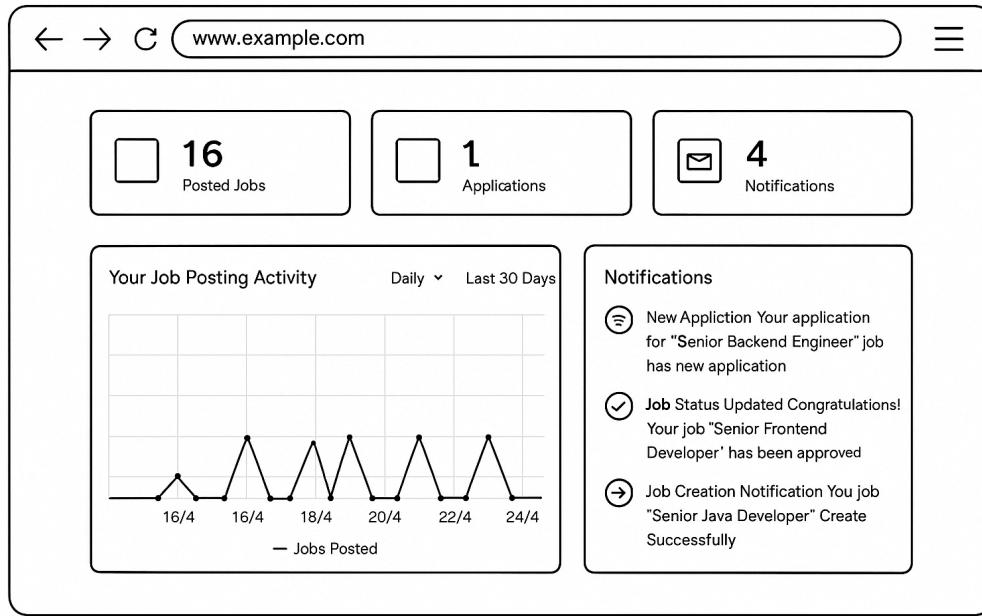


- Function details:
  - Data:
    - Search criteria (company name, industry, location, etc.)
  - Validation:
    - Ensure search queries are properly formatted
  - Business rule: BR-34
  - Functionality:
    - In Normal Cases: The system displays a list of employers matching the search criteria
    - In Abnormal Cases: If no matching employers are found, a message such as "No employers found matching your criteria" appears. If there's a server issue, an error message such as "Unable to complete search, please try again later" appears.

## 3.12 Notifications & Alerts Management

### 3.12.1 View System Notifications

- Function trigger: The user accesses the notifications section or receives a system notification
- Function description: Users can view system-wide notifications sent by administrators, such as system maintenance alerts
- Screen layout:

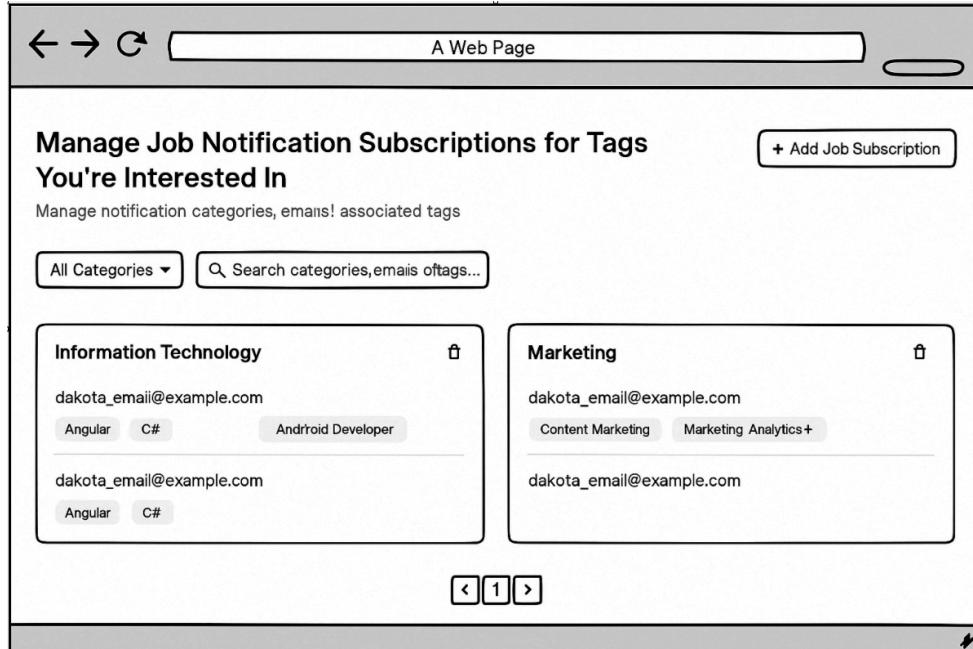


- Function details:
  - Data:
    - System Notifications (title, message content, date/time, priority level)
  - Validation:
    - Ensure notifications are current and relevant to the user
  - Business rule: BR-21
  - Functionality:
    - In Normal Cases: The system displays all current system notifications sent by administrators, potentially sorted by date or priority
    - In Abnormal Cases: If there are no notifications, a message such as "No system notifications at this time" appears. If there's a server issue retrieving notifications, an error message such as "Unable to load notifications, please try again later" appears.

### ***3.12.3 Register for contextual notifications***

- Function trigger: The candidate selects options to register for specific job category notifications
- Function description: Candidates can subscribe to receive notifications about specific job tag(e.g., .Net, Photoshop, Java) that interest them

- Screen layout:

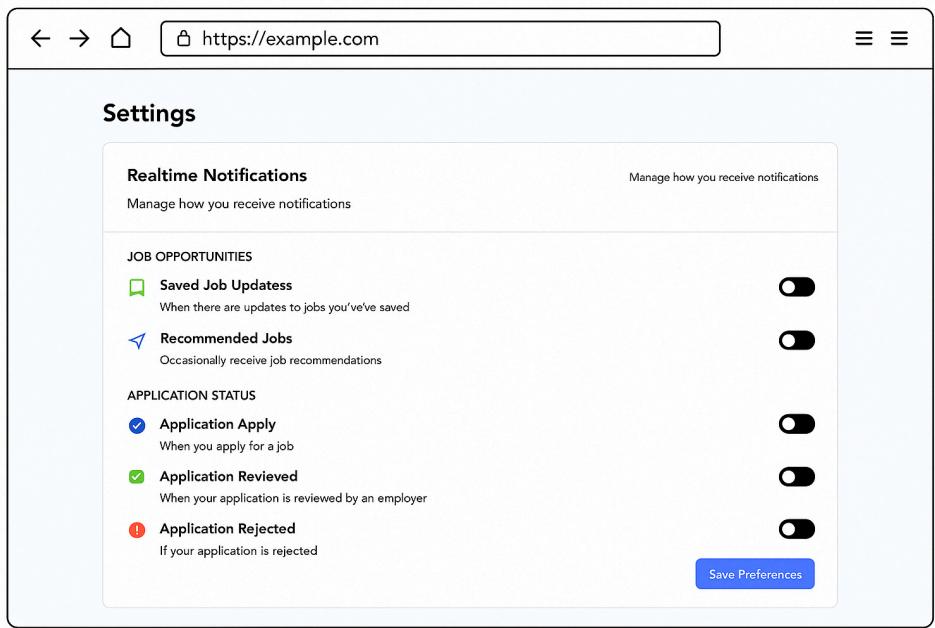


- Function details:
  - Data:
    - Notification preferences (frequency, delivery method)
    - Selected job categories then tag (Net, Photoshop, Java, etc.)
  - Validation:
    - Verify notification delivery method is valid (email, push notification, etc.)
    - Ensure user has selected at least one job category
  - Business rule: BR-21
  - Functionality:
    - In Normal Cases: The system saves the user's notification preferences and confirms subscription to selected job categories
    - In Abnormal Cases: If the registration process fails, an error message such as "Unable to save notification preferences, please try again" appears. If there's a server issue, an error message such as "Service temporarily unavailable, please try again later" appears.

#### **3.12.4 Turn Off Notifications**

- Function trigger: Candidate navigates to notification settings and disables/enables job alerts.
- Function description: Provides users with the ability to pause or stop receiving job alert notifications through email or in-app notifications.

- Screen layout:



- Function details:

- Validation: Only authenticated users can access this setting.
- Business rule: BR-42
- Functionality:
  - In Normal Cases:
    - Alerts are turned off: system no longer notifications for that user.
    - Alerts are turned on: system notifications for that user.
  - In Abnormal Cases: If update fails, show: "Could not update preferences. Please try again later."

## 4. Non-Functional Requirements

### 4.1 External Interfaces

#### 4.1.1. Software Interfaces

- The system is compatible with popular web browsers and their latest versions.

#### 4.1.2. User Interfaces

- The system employs appropriate notification mechanisms that don't disrupt the user experience.

### 4.2 Quality Attributes

#### 4.2.1 Usability

- Training Time
  - Regular users: Can become proficient within one work session.
  - Advanced users: Can familiarize themselves with advanced features within half a day.
- Operation completion times:
  - Account registration: Completed within a few minutes.
  - Job searching: Quick and convenient.
  - Service payment: Simple with minimal steps.
  - Feedback submission: Easy and fast.

#### **4.2.2 Reliability**

- Operation level: The system operates continuously with minimal downtime.
- Fault tolerance: The system maintains basic functions in case of incidents.
- Recovery time: Issues are resolved promptly.
- Quality: Ensures the lowest possible number of system errors.

#### **4.2.3 Performance**

- Response Time
  - Ensures fast response times under normal usage conditions.
  - Maintains stable performance during peak hours.
- Throughput
  - The system shall support a throughput of at least 100 transactions per second under normal operating conditions, ensuring seamless user interactions during peak usage times.
- Capacity
  - Meets the needs of multiple simultaneous users.
  - Handles a large volume of daily transactions.
- Resource Utilization
  - Optimizes server resource usage.

#### **4.2.4 Security**

- Data protection: Applies appropriate protection measures for personal information and payment data.
- Secure login: Uses reliable user authentication methods.

### **5. Requirement Appendix**

#### **5.1 Business Rules**

ID	Rule Definition
BR-01	Only one account can be created per Email account.
BR-02	Password requirements: at least 8 characters, must include at least 1 uppercase letter, 1 lowercase letter, 1 number, and 1 special character.
BR-03	Passwords stored in the database must be hashed by the algorithm.
BR-04	Users can only log in with the email verified.
BR-05	Job listings should be sorted by relevance or the latest postings by default
BR-06	Expired job posts should not be displayed or should be marked as "Closed"
BR-07	Users can only see active subscription plans and discounts if applicable
BR-08	Users must complete the payment to activate the subscription
BR-09	A job post must have a title, industry, job type, and location.
BR-10	Job posts expire automatically after the specified expiration date.
BR-11	Only the employer can edit or delete the post.
BR-12	Users can search for candidates based on criteria such as name, skills, and the position the candidate is applying for.
BR-13	The search results must display a list of candidates with information matching the selected filters or keywords.

<b>ID</b>	<b>Rule Definition</b>
BR-14	The system should only display CVs that match the selected job post or search criteria.
BR-15	Users can only change their own password.
BR-16	After successfully changing the password, the user needs to log in again.
BR-17	If you enter the wrong password more than the specified number of times (for example, 3 times), your account may be temporarily locked.
BR-18	The user must enter the correct email registered in the system.
BR-19	The reset token has an expiration time (eg 1 hour).
BR-20	The new password must be different from the old password.
BR-21	User is logged in
BR-22	Users can only view their own personal information.
BR-23	Only the CV owner or authorized employer can view, edit, delete or download the CV.
BR-24	The CV must exist in the system; otherwise, an error message is shown.
BR-25	Users must provide essential personal details, at least one skill, and valid education and experience details
BR-26	Only .jpg and .png formats are allowed.
BR-27	Skills: Max 50 characters per skill.
BR-28	Experience Description: Max 500 characters.
BR-29	Education must include a valid degree, institution, and year range.
BR-30	Experience must include company name, position, and description.
BR-31	Only the CV owner or an authorized admin can delete the CV.
BR-32	The system verifies that the CV exists before processing deletion.
BR-33	Users must confirm deletion via a confirmation dialog before the action is executed.
BR-34	Users must enter at least one search criterion (job title, location, or tags).
BR-35	Experience level, salary range, and work type must match predefined values.
BR-36	Only valid city names and locations are accepted.
BR-37	Employers must verify email, tax ID, and business license before being able to post jobs or view applicant lists.
BR-38	Can be viewed by all users, including guests who do not need to log in.
BR-39	Reports must include reporter, target, reason, and timestamp.
BR-40	Actions must be logged with admin ID and decision timestamp.
BR-41	Approved reports trigger workflow (e.g., hide content, notify user).
BR-42	Notification preference flag is set to "off" or "on" in user preferences table.
BR-39	Admin must have proper authorization to create/update/delete subscription plans
BR-40	Package names must be unique within the system

<b>ID</b>	<b>Rule Definition</b>
BR-41	Subscription plans must have at least one feature enabled
BR-42	Price must be in multiples of 1,000 VND
BR-43	Duration must be at least 1 day and not exceed 365 days
BR-44	Existing users with active subscriptions to the plan being updated are not affected until renewal
BR-45	Plan type (Employer/Candidate) cannot be changed once created
BR-46	A subscription plan cannot be deleted if it has active users subscribed to it
BR-47	Users with active subscriptions retain access until their current subscription expires
BR-48	Deletion requires confirmation to prevent accidental removal
BR-49	Deleted plans should be archived for historical reporting rather than permanently removed
BR-50	Only job owners or administrators can hide job postings
BR-51	Hidden jobs are not visible in search results or job listings
BR-52	Applications already received for hidden jobs remain accessible
BR-53	Job status changes from "Active" to "Hidden" when hidden
BR-54	Users who have already applied to or favorited this job will still see it in their history
BR-55	Only administrators can approve or reject job postings
BR-56	All job postings must be reviewed before being published
BR-57	Administrators must provide comments when rejecting or requesting changes
BR-58	Approved jobs become visible in job listings immediately
BR-59	Job approval should be completed within 24 hours of submission

<b>ID</b>	<b>Rule Definition</b>
BR-60	Jobs that violate platform guidelines must be rejected with specific reasons
BR-61	Users must be logged in to add jobs to favorites
BR-62	Users can add a maximum of 50 jobs to their favorites list
BR-63	Users can remove jobs from their favorites at any time
BR-64	If a job is deleted or hidden, it remains in favorites but is marked as "No longer available"
BR-65	Adding to favorites does not notify the employer
BR-66	Users can receive notifications about updates to their favorited jobs if enabled in settings
BR-67	Users must be logged in with a complete profile to apply for jobs
BR-68	Users can apply for a job only once
BR-69	Users must submit at least one CV with their application
BR-70	Users must answer all required screening questions
BR-71	Users can withdraw their application before employer action
BR-72	Users with premium subscriptions receive priority application status
BR-73	Application status updates trigger notifications to candidates
BR-74	Transaction data must be securely handled and encrypted during download
BR-75	Personal financial information should be protected according to data privacy regulations
BR-76	Downloaded files should include a timestamp and unique identifier
BR-77	Large transaction lists should be paginated or split into multiple files
BR-78	The system should log all download activities for security auditing

ID	Rule Definition
BR-79	Downloaded files should include a disclaimer about confidentiality
BR-80	The uploaded file must be in .pdf or .docx format.
BR-81	File size must not exceed 5MB.
BR-82	Only one CV file is allowed per user at any time.
BR-83	If a new CV is uploaded, the old one is automatically replaced.
BR-84	File names must not include forbidden special characters.
BR-85	Only verified employers can view full candidate profiles.
BR-86	Candidate profile must exist and be active.
BR-87	CV file access should follow platform's visibility rules (e.g., private/public).
BR-88	Only logged-in users can access their saved jobs list.
BR-89	Deleted or expired jobs should be clearly marked or hidden.
BR-90	The list must be paginated if it exceeds a certain number of entries.

**Table 8. Business Rules**

## 5.2 Common Requirements

#	Requirement	Description
1	Users must be authenticated (verified login) before creating CV, ....	This ensures that only registered users can access job and candidate data

**Table 9. Common Requirements**

## 5.3 Application Messages List

#	Message code	Message Type	Context	Content
1	MSG01	In line	There is no search result	<i>No search results.</i>
2	MSG02	In red, under the text box	Input-required fields are empty	<i>The *field is required.</i>

#	Message code	Message Type	Context	Content
3	MSG03	Toast message	Updating asset(s) information successfully	<i>Update asset(s) successfully.</i>
4	MSG04	Toast message	Adding new assets successfully	<i>Add assets successfully.</i>
5	MSG05	Toast message	Confirming email of asset hand-over is sent successfully	<i>A confirmation email has been sent to {email_address}.</i>
6	MSG06	Toast message	Resetting asset information successfully	<i>Return asset(s) successfully.</i>
7	MSG07	Toast message	Deleting asset information successfully	<i>Delete asset(s) successfully.</i>
8	MSG08	In red, under the text box	Input value length > max length	<i>Exceed max length of {max_length}.</i>
9	MSG09	In line	The username or password is not correct when clicking sign-in	<i>Incorrect username or password. Please check again.</i>
10	MSG10	Toast message	When Google login fails	<i>Google login failed. Please try again.</i>
11	MSG11	Toast message	When Google login is successful	<i>"Google login successful!"</i>
12	MSG12	Toast message	When a user doesn't input a username or password	<i>"User and Password is required!"</i>
13	MSG13	Toast message	When login is successful	<i>"Login success!"</i>
14	MSG14	Toast message	When an incorrect username or password is entered	<i>"Incorrect username or password. Please check again."</i>
15	MSG15	Toast message	Error Message (Form Error)	<i>"8 characters, 1 uppercase, and 1 special"</i>
16	MSG16	Toast message	Error Message (Form Error)	<i>"Passwords do not match"</i>
17	MSG17	Toast message	Success Message	<i>"Registration successful! &lt;br /&gt; Please Check your email"</i>
18	MSG18	In yellow, under the button	Pending Status Message	<i>"Registering..."</i>
19	MSG19	In yellow, under the button	Pending Status Message	<i>"Logging..."</i>

**Table 10. Application Messages List**

#### 5.4 Other Requirements