



## Project and Professionalism (6CS007)

# Project Artefact Design Remote Job Finder

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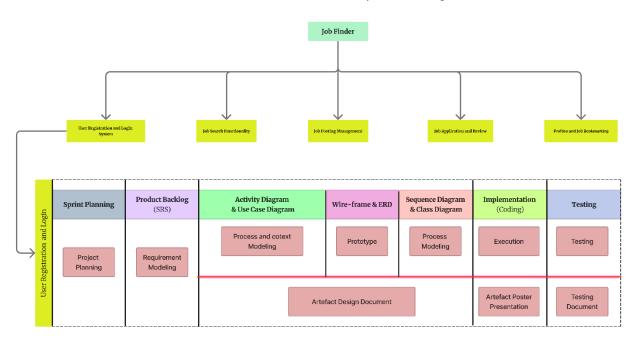
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#### **Functional Decomposition Diagram**

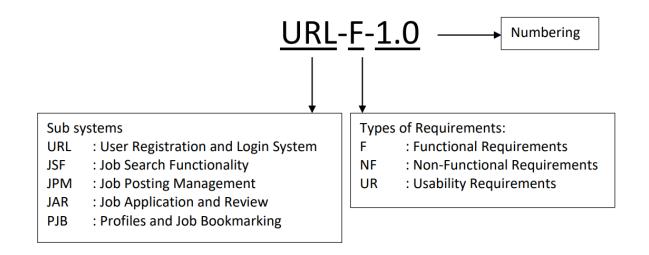


FDD- Functional Decomposition Diagram

Each Subsystem(Artefact) will have same work iteratively.

#### **SRS Document**

#### Legend:



## User Registration and Login System

Req. Code	Req. Desc	Sprint	Priority
URL-F-	The system shall allow customers to register themselves.	1	High
1.0	[register user]		
URL-NF-	The system shall encrypt registration data before sending it to	1	High
1.0	the server. (security)		
URL-UR-	On smaller devices, the header shall appear as a menu for	1	Medium
1.0	better viewing and usability.		
URL-F-	The system shall allow registered users to log in.	1	High
1.1			
URL-NF-	User passwords shall be a combination of alphabets, numbers,	1	High
1.1	and special characters for enhanced security.		
URL-UR-	The user and company registration forms shall be fully	1	High
1.1	responsive and provide an optimal user experience on mobile		
	devices.		
URL-F-	The system shall provide a registration form for companies to	1	High
1.2	create accounts.		
URL-F-	The system shall allow registered companies to log in.	1	High
1.3			
URL-F-	The system shall allow the addition of new users and	1	High
1.4:	companies by administrators.		
URL-F-	The system shall provide a functionality for users and	1	High
1.5	companies to reset their passwords.		
URL-F-	The system shall allow the admin to add and remove users.	1	High
2.0			
URL-NF-	The admin shall have access to a secure panel for user	1	High
2.0	management.		
URL-NF-	The system shall be capable of handling a minimum of 100,000	1	High
2.1	registered users and 10,000 companies without performance		
	degradation.		

## **Job Search Functionality**

Req. Code	Req. Desc	Sprint	Priority
JSF-F-1.0	The system shall provide filters for job search.	2	Medium
JSF-F-1.1	Users shall be able to filter jobs by location.	2	High
JSF-F-1.2	Users shall be able to filter jobs by job category.	2	High
JSF-F-1.3	Users shall be able to filter jobs by Job Type.	2	High
JSF-F-2.0	The system shall implement an advanced search algorithm to improve search accuracy and relevance.	2	High
JSF-NF-2.0	The search algorithm shall return results within 3 seconds under normal server load conditions.	2	High
JSF-F-3.0	The system shall display search results in a user-friendly format.	2	High
JSF-NF-3.0	The job listings shall include detailed information such as job title, company name, location, and application deadline.	2	High
JSF-UR-3.0	Users shall have the search results shown in listing manner, or other criteria.	2	Medium

## **Job Posting Management**

Req. Code	Req. Desc	Sprint	Priority
JPM -F-1.0	The system shall provide a form for posting jobs.	3	High
JPM -F-1.1	Employers shall be able to enter job details such as job title, description, requirements, and application deadline.	3	High
JPM -NF-1.0	The job post form shall enforce character limits and validate input data to prevent errors	3	High
JPM-F-2.0	The system shall display posted jobs in a user-friendly format	3	High
JPM-F-2.1	Job listings shall include job title, company name, location, and application deadline.	3	High
JPM-UR-2.0	Job listings shall be visually appealing and easy to navigate.	3	Medium
JPM-F-3.0	The system shall provide tools for managing job applications.	3	High
JPM-F-3.1	Job applicants shall receive a confirmation upon successful submission of their application	3	High
JPM-F-3.2	Employers shall have the ability to review and delete applications.	3	High
JPM-UR-3.0	Employers shall have the option to edit applications based on various criteria such as skills, experience, and qualifications.	3	Medium

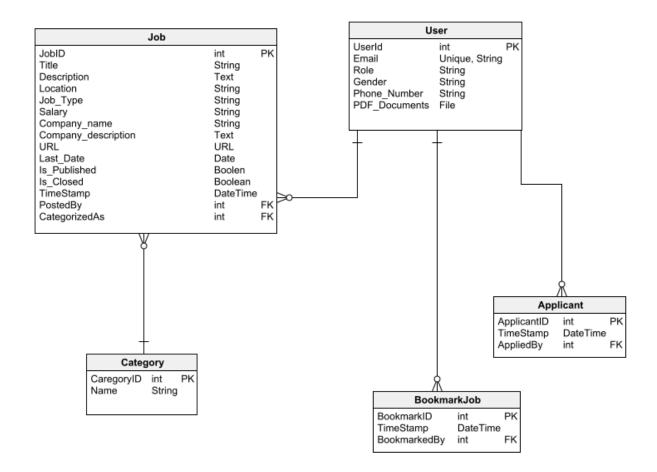
## Job Application and Review

Req. Code	Req. Desc	Sprint	Priority
JAR-F-1.0	Users shall be able to apply to job postings.	4	High
JAR-F-1.1	Applicants shall provide their resume (CV) while applying to a job.	4	High
JAR-F-1.2	Users shall receive confirmation upon successful submission of their job application.	4	High
JAR-F-2.0	Employers shall be able to review job applications.	4	High
JAR-F-2.1	Employers shall have access to applicant resumes and contact details.	4	High
JAR-F-2.2	Employers shall be able to schedule interviews with applicants.	4	High
JAR-F-3.0	The system shall verify the authenticity of job applications by checking the company proof of registration documents.	4	High
JAR-NF-3.0	The system shall prevent duplicate applications from the same user for the same job posting.	4	High
JAR-F-4.0	Employers shall be able to view applicant profiles and contact details.	4	High
JAR-UR-4.0	Employers shall have the option to contact applicants through an internal messaging system.	4	High

#### **Profiles and Job Bookmarking**

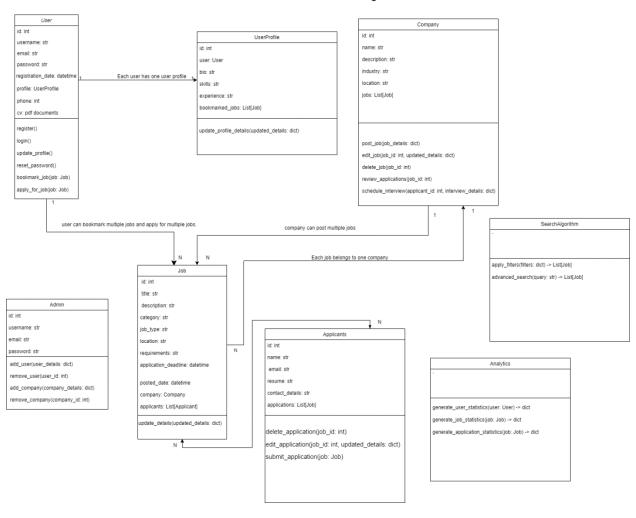
Req. Code	Req. Desc	Sprint	Priority
PJB-F-1.0	Users shall be able to bookmark job postings.	5	High
PJB-F-1.1	Users shall have a dedicated section to view and manage their bookmarked jobs.	5	High
PJB-UR-1.0	Users shall receive notifications about updates on bookmarked jobs.	5	Medium
PJB-F-2.0	Users shall have profiles with personal and professional information.	5	High
PJB-F-2.1	Users shall be able to edit and update their profiles.	5	High
PJB-F-2.2	Users shall be able to upload their resumes and contact details.	5	High
PJB-F-3.0	The system shall provide statistical data and analytics to users and employers.	5	High
PJB-F-3.1	Users shall be able to view the number of applications submitted, bookmarked jobs, and profile views.	5	High
PJB-NF-3.0	The system shall generate data of user engagement, jobs, and application trends.	5	High
PJB-UR-3.0	Users shall receive statistical data based on job posted, applied, and filed.	5	Medium

#### **ER-Diagram**



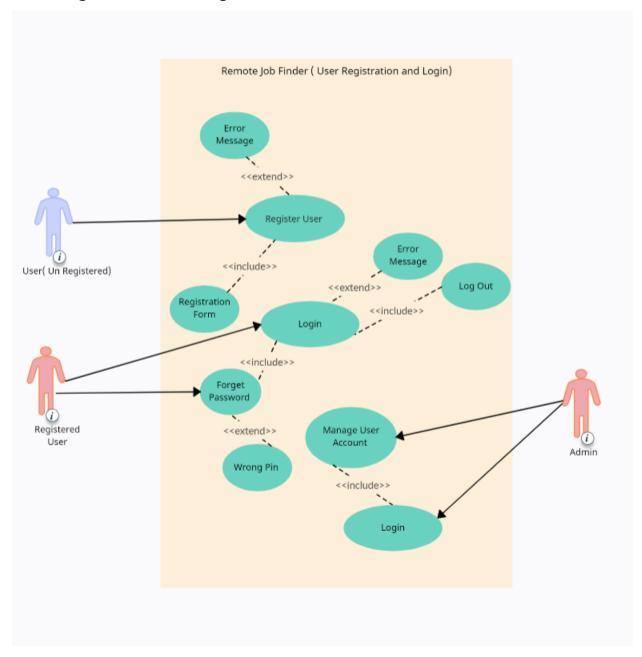
#### **Class Diagram**

#### Remote Job Finder Class Diagram

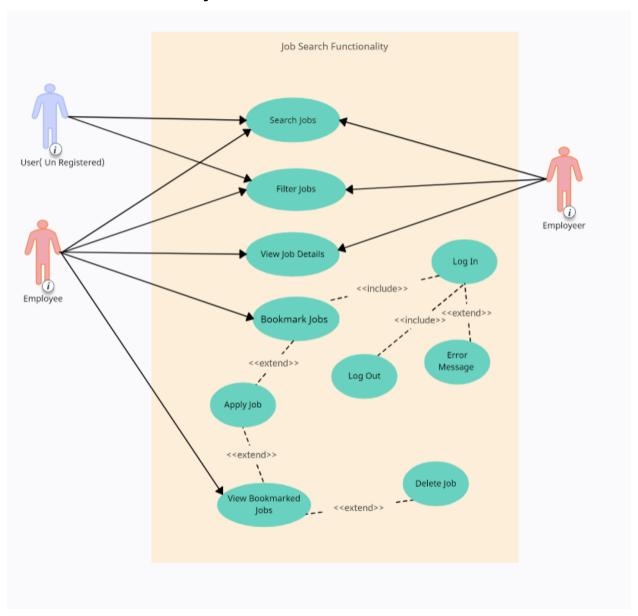


#### **Use Case Diagram**

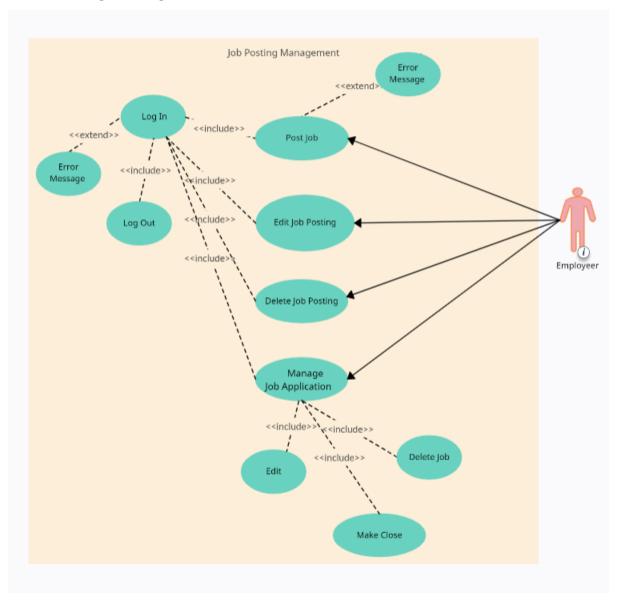
#### **User Registration and Login**



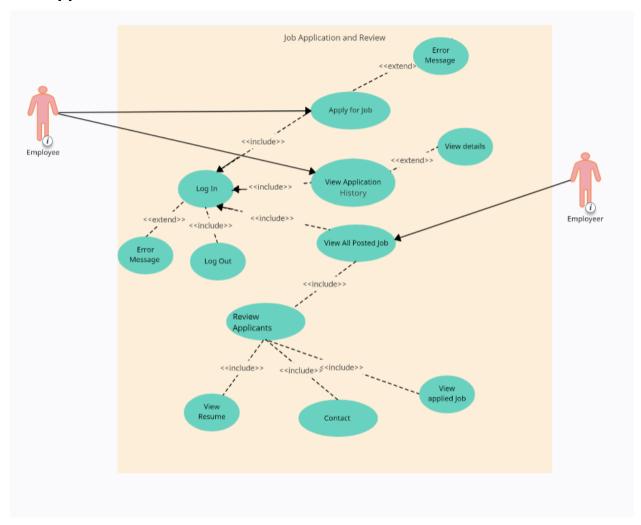
#### **Job Search Functionality**



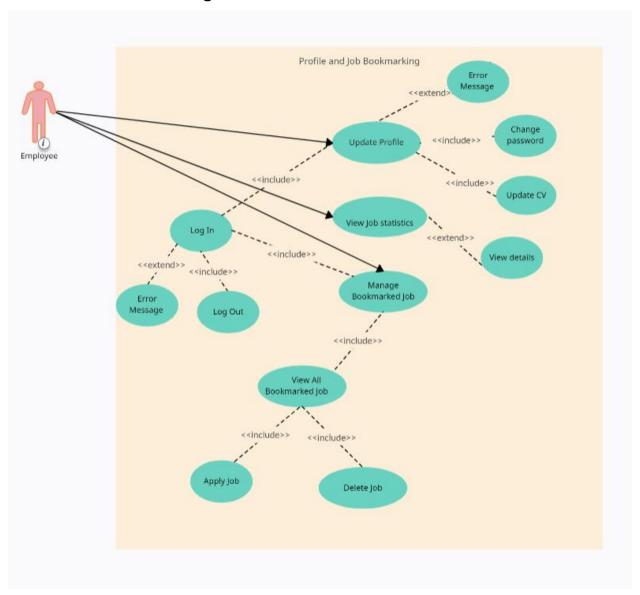
#### **Job Posting Management**



#### **Job Application and Review**



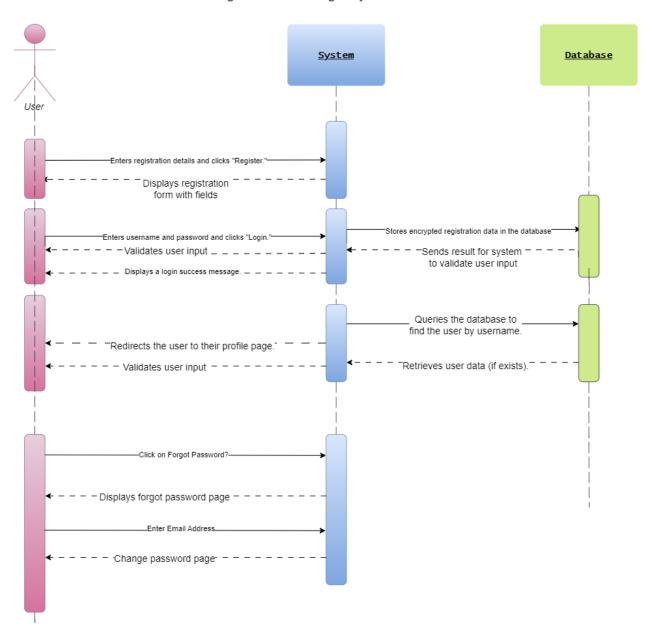
#### **Profile and Bookmarking**



#### **Sequence Diagram**

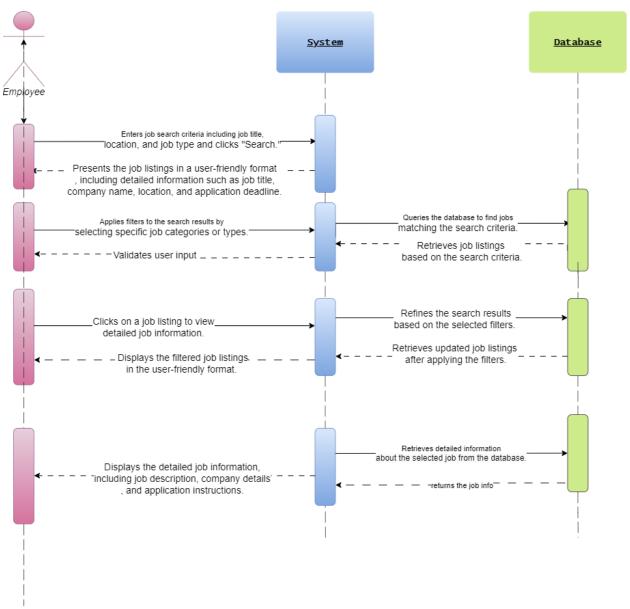
#### **User Registration and Login System**

User Registration and Login System



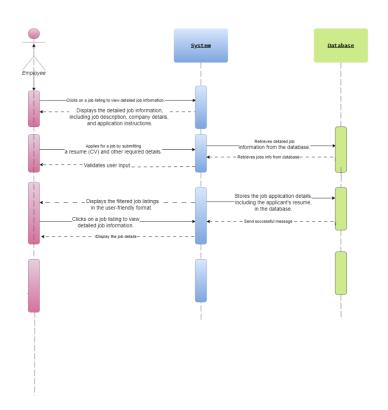
#### **Job Search Functionality**

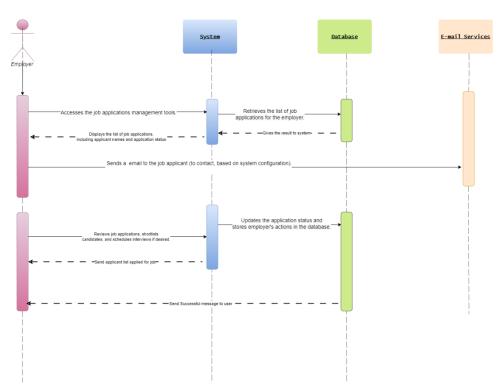
#### Job Search Functionality



#### **Job Posting Management**

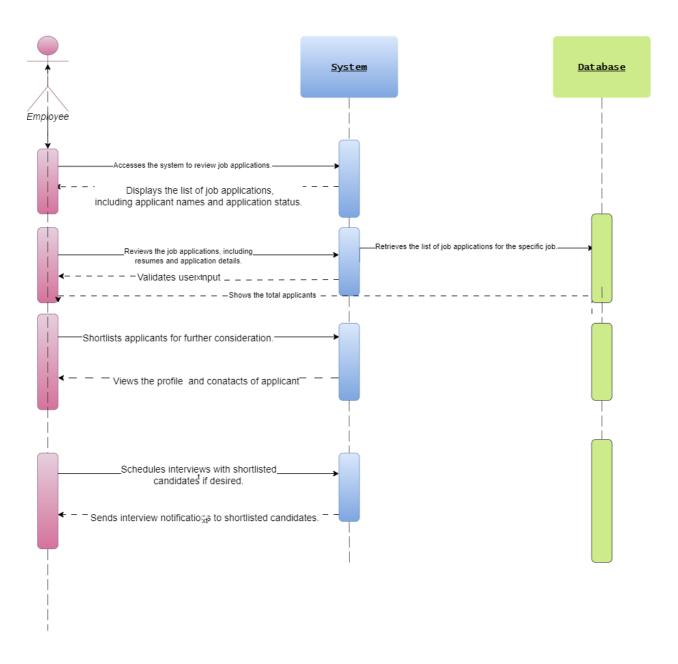
Job Application and Review





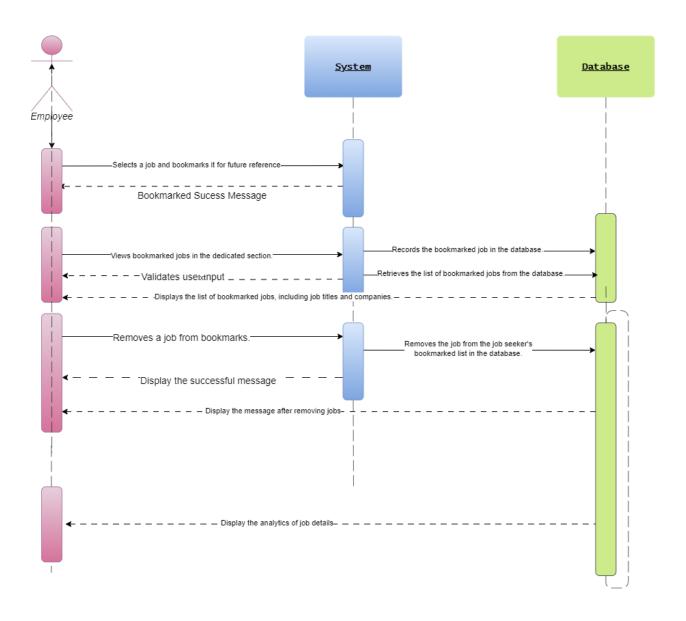
#### **Job Application and Review**

#### Job Application and Review

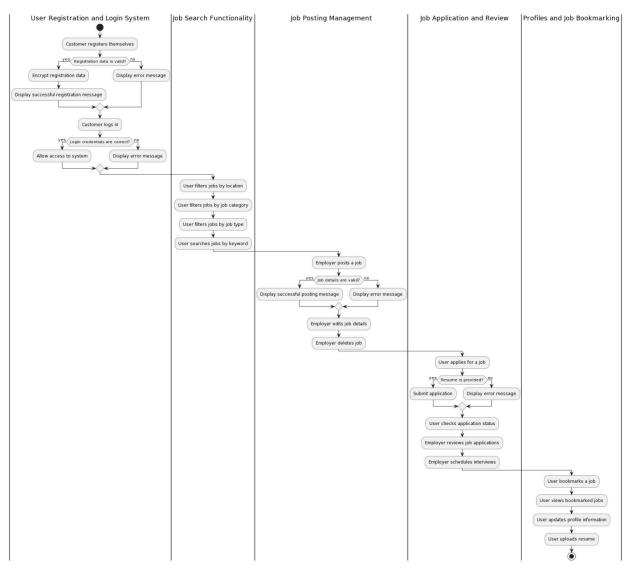


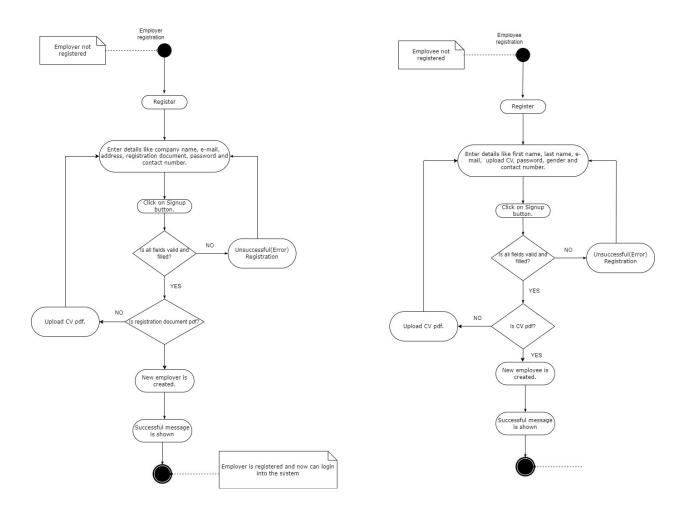
#### **Profiles and Job Bookmarking**

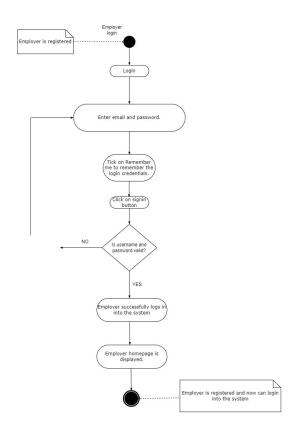
#### Profile and bookmarking

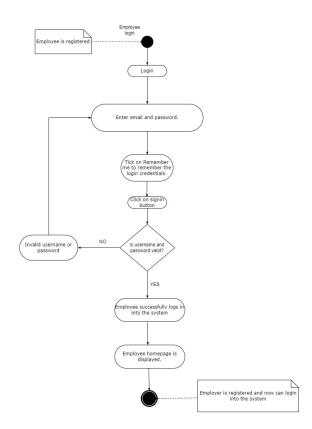


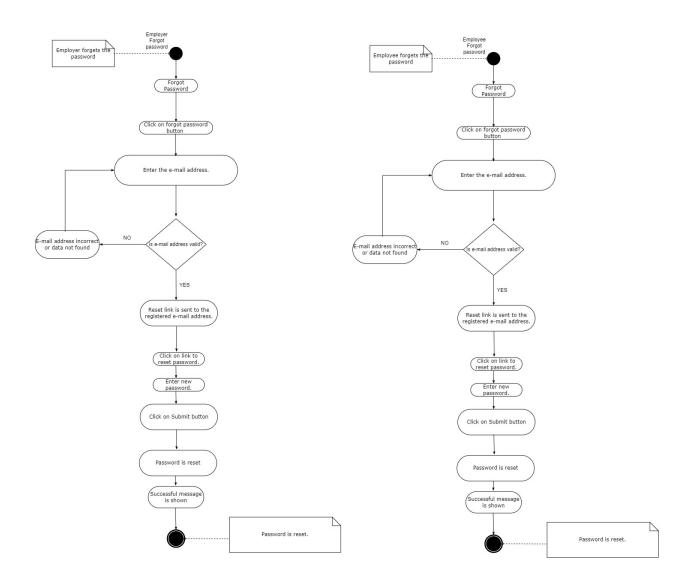
#### **Activity Diagram**

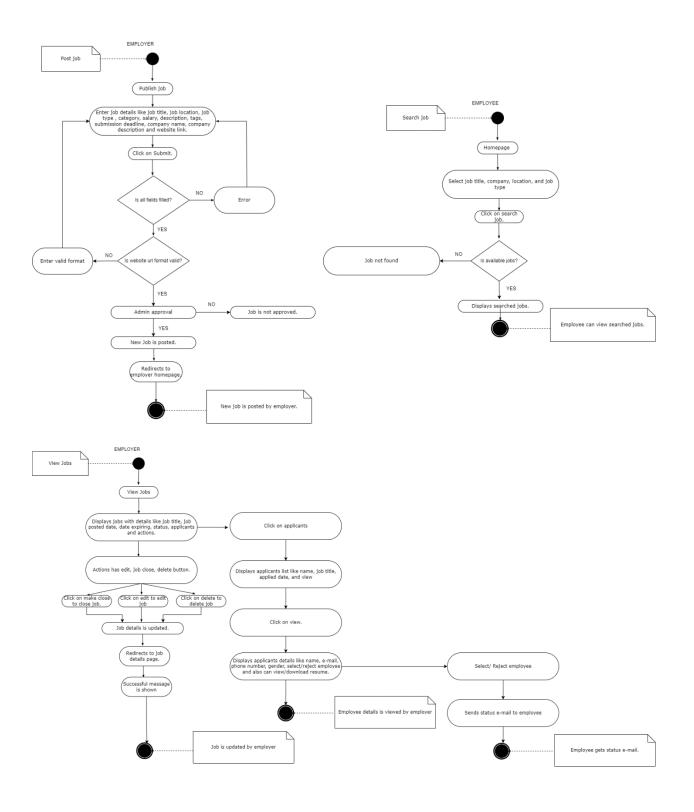


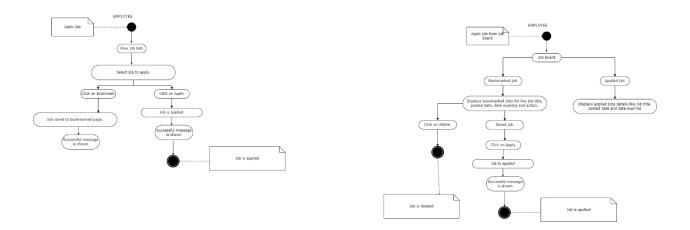












#### **Test Case**

#### **User Registration and Login System**

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ase Id	Requirement Id	Entry Criteria	Test Case Title	Steps	То
01	URL-F-1.0	User attempts to register in the system.	Verify user registration functionality.	Navigate to registration page.	User e

Test Case Id	Requirement Id	Entry Criteria	Test Case Title	Steps	Test Data	Exit Criteria	Actual Result after Execution	Status	Comments
TC_61	URL-F-1.0	User attempts to register in the system.	Verify user registration functionality.	Navigate to registration page.	User registration details	User should be successfully registered in the system.	User is registered successfully.	Passed	Fulfilled
TC_02	URL-NF-1.0	User submits registration data.	Verify data encryption during registration.	Enter registration details.	Encrypted registration data	Registration data should be encrypted before sending it to the server.	Data is encrypted successfully.	Passed	Fulfilled
тс_03	URL-UR-1.0	User accesses the system on a smaller device.	Verify header appearance on smaller devices.	Access the system using a smaller device.	Device with smaller screen resolution	Header should appear as a menu for better viewing and usability.	Header appears as a menu.	Passed	Fulfilled
TC_04	URL-F-1.1	Registered user attempts to log in	Verify user login functionality.	Navigate to the login page.	User credentials	User should be successfully logged into the system.	User is logged in successfully.	Passed	Fulfilled
TC_05	URL-NF-1.1	User sets a new password during registration.	Verify password complexity during registration.	Enter a password during registration.	Password with alphabets, numbers, and special characters	Plasword should meet complexity requirements.	Password meets complexity requirements.	Passed	Fulfilled
TC_06	URL-UR-1.1	User accesses registration forms on a mobile device.	Verify responsiveness of registration forms.	Access registration forms on a mobile device.	Mobile device with different screen sizes	Registration forms should provide an optimal user experience on mobile devices.	Registration forms are responsive.	Passed	Fulfilled
TC_07	URLF-12	User attempts to create a company account.	Verify company registration functionality.	Navigate to the company registration page.	Company registration details	Company should be successfully registered in the system.	Company is registered successfully.	Passed	Fulfilled
TC_08	URL-F-1.3	Registered company attempts to log in.	Verify company login functionality.	Navigate to the company login page.	Company credentials	Company should be successfully logged into the system.	Company is logged in successfully.	Passed	Fulfilled
TC_09	URL-F-1,4	Administrator adds a new user or company.	Verify administrator's user management functionally.	Log in as an administrator.	New user or company details	Administrator should be able to add new users and companies in the system.	New user or company is added successfully.	Passed	Fulfilled
TC_10	URL-F-1.5	User attempts to reset their password.	Verify password reset functionality.	Access the password reset page.	User's email or username	User should receive a password reset link and be able to set a new password.	Password is successfully reset.	Passed	Fulfilled
TC_11	URLF-2.0	Administrator adds and removes users.	Verify administrator's user management functionality.	1, Log in as an administrator.	User details	Administrator should be able to add and remove users from the system.	User is added/removed successfully.	Passed	Fulfilled
TC_12	URL-NF-2.0	Administrator accesses the user management panel.	Verify security of the admin panel.	Log in as an administrator.	Admin credentials	Administrator should have secure access to the user management panel.	Admin panel is secure.	Passed	Fulfilled
TC_13	URL-NF-21	Dystem is subjected to a high number of registered users and companies.	Verify system performance under load.	Register a large number of users and companies.	100,000 registered users, 10,000 companies	System should handle 100,000 registered users and 10,000 companies without performance day solution.	System handles load successfully.	Passed	Fulfiled

### **Job Search Functionality**

Remote Job Finder- JSF

Test Case ID	Requirement ID	Entry Criteria	Test Case Title	Steps	Test Data	Exit Criteria	Actual Result after Execution	Status	Comments
TC_01	JSF-F-1.0	User is on the job search page.	Verify job search filters functionality.	Go to the job search page.	Filter options (location, category)	Job listings match the selected criteria.	Job listings match the selected criteria.	Passed	Fulfilled
TC_02	JSF-F-1.1	User applies location filter.	Verify jobs filtered by location.	Select location from the filter.	Location selection	Job listings are specific to the selected location.	Job listings match the selected location.	Passed	Fulfilled
TC_03	JSF-F-1.2	User applies category filter.	Verify jobs filtered by category.	Select job category from the filter.	Category selection	Job listings are specific to the selected category.	Job listings match the selected category.	Passed	Fulfilled
TC_04	JSF-F-1.3	User applies job type filter.	Verify jobs filtered by job type.	Select job type from the litter.	Job type selection	Job listings are specific to the selected job type.	Job listings match the selected job type.	Passed	Fulfilled
TC_05	JSF-F-2.0	User enters search query.	Verify search algorithm accuracy and relevance.	Enter search query in the search bar.	Search query	Job listings are accurate and relevant to the search query.	Job listings are accurate and relevant.	Passed	Fulfilled
TC_0s	JSF-NF-2.0	System under normal server load conditions.	Verify search results response time.	Perform search query.	Normal server load conditions	Search results are displayed within 3 seconds.	Search results are displayed within 3 seconds.	Passed	Fulfilled
TC_07	JSF-F-3.0	User views search results.	Verify user-friendly presentation of search results.	View search results.	Job listings format	Job listings include job title, company name, location, and application deadline in an easily readable format.	Job listings are displayed in a user-friendly format.	Passed	Fulfilled
TC_08	JSF-NF-3.0	User views detailed job information.	Verify detailed job information display.	Click on a job listing to view details.	Job details	Job details include title, company, location, and application deadline.	Job details are displayed accurately.	Passed	Fulfilled
TC_09	JSF-UR-3.0	User prefers a different view formst.	Verify alternate job listings view.	Select preferred view format.	View format selection	Job listings are displayed according to the selected view format preference.	Job listings are displayed according to preference.	Passed	Fuffiled

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## **Job Positing Management**

#### Remote Job Finder - JPM

Test Case ID	Requirement ID	Entry Criteria	Test Case Title	Steps	Test Data	Exit Criteria	Actual Result after Execution	Status	Comments
JPMT_01	JPM-F-1.0	Admin is logged into the system.	Verify job posting form accessibility and functionality.	Go to the job posting form.	Job details (life, description, requirements, deadline)	Job posting form is accessible and fields are editable.	Job posting form is accessible and fields are editable.	Passed	Fulfilled
JPMT_02	JPM-F-1.1	Admin is on the job posting form.	Verify job details submission.	1. Fill out job details.	Job details (life, description, requirements, deadline)	Job details are submitted successfully.	Job details are submitted successfully.	Passed	Fulfilled
JPMT_03	JPM-NF-1.0	Admin is on the job posting form.	Verify character limits and input validation on the job posting form.	Exceed character limits in various fields.	Job details (life, description, requirements, deadline)	Error messages are displayed for exceeded character limits and invalid input.	Error messages are displayed for exceeded character limits and invalid input.	Passed	Fulfilled
JPMT_04	JPM-F-2.0	Admin has posted jobs.	Verify displayed job listings.	Go to the job listings page.	Posted job listings	Job listings include job title, company name, location, and application deadline.	Job listings include job title, company name, location, and application deadline.	Passed	Fulfilled
JPMT_05	JPM-F-2.1	Admin is on the job listings page.	Verify job details in the listings.	Click on a job listing to view details.	Job details (Itile, description, requirements, deadline)	Job details include title, description, requirements, and deadline.	Job details include title, description, requirements, and deadline.	Passed	Fulfilled
JPMT_06	JPM-UR-2.0	Admin is on the job listings page.	Verify visually appealing and easy-to-navigate job listings.	Observe the job listings layout.	Job listings format	Job listings have visually appealing layout and are easy to navigate.	Job listings have visually appealing layout and are easy to ravigate	Passed	Fulfilled
JPMT_07	JPM-F-3.0	Admin has received job applications.	Verify job application management tools.	Go to the job applications management page.	Job applications list	Admin can review, delete, and manage job applications.	Admin can review, delete, and manage job applications.	Passed	Fulfilled
JPMT_08	JPM-F-3.1	Admin is viewing a job application.	Verify applicant confirmation upon submission.	View an applicant's submitted application.	Applicant details (name, contact, resume)	Applicant receives confirmation upon successful submission.	Applicant receives confirmation upon successful submission.	Passed	Fulfilled
.PMT_09	JPM-UR-3.0	Admin is managing job applications.	Verify ability to edit applications based on specific criteria.	Edit an application based on skills and qualifications.	Applicant details (skills, experience, qualifications)	Admin can edit applications based on specific criteria.	Admin can edit applications based on specific criteria.	Passed	Fulfilled