

## **Project Part 2**

### **Team:**

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Title: **FindMeAJob**

### **Description:**

A system to which everyone can sign up and look for jobs. Intended for use by employers and job seekers, where both can find good matches.

### **Actors:**

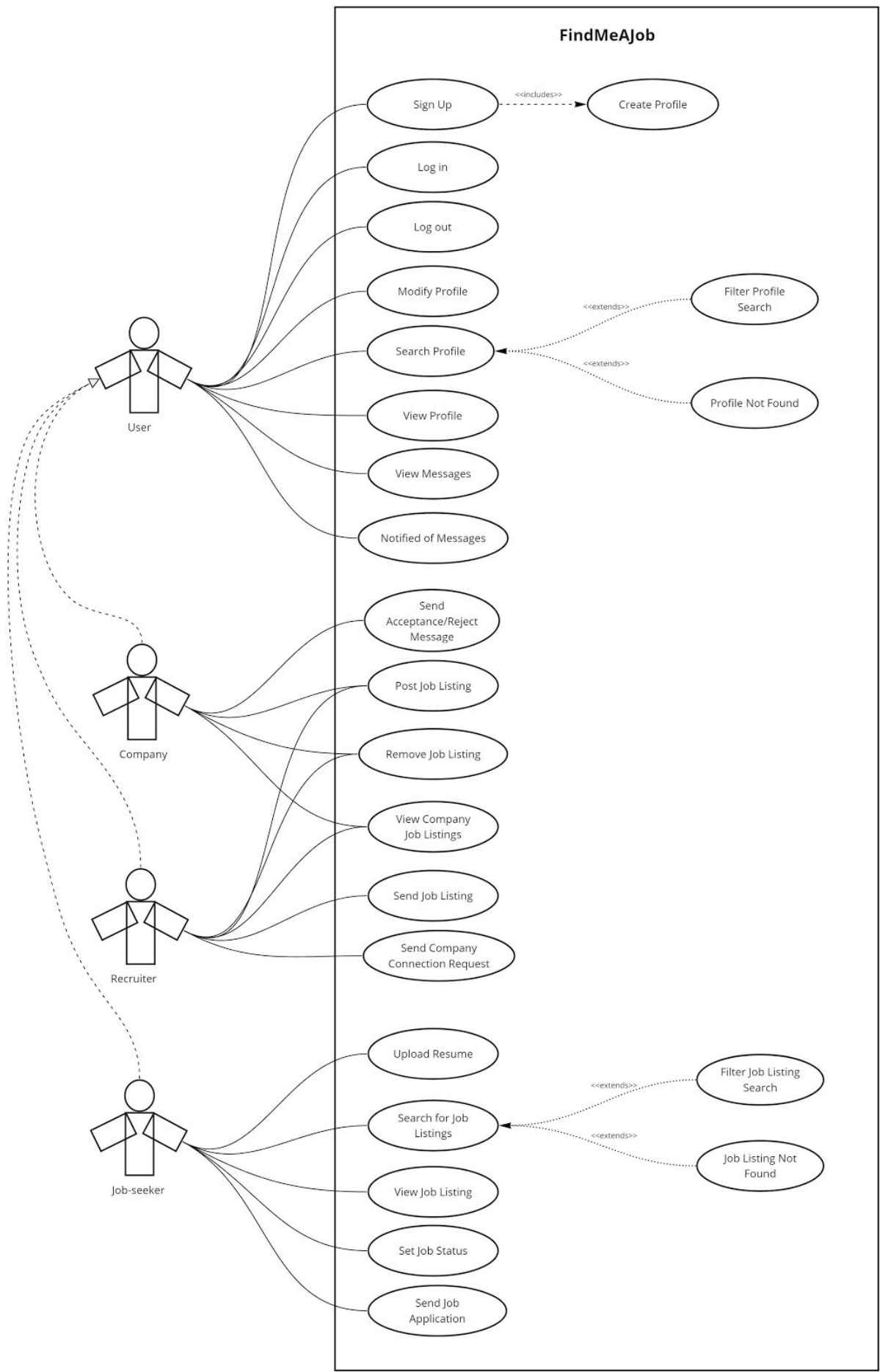
Companies, Recruiters, Job seekers.

<b>User Requirements</b>				
ID	Requirement	Topic Area	Actor	Priority
UR-001	As a user I want to be able to log into my account	Log in	Recruiter, job seeker, company	High
UR-002	As a user I want to be able to logout of my account	Log out	Recruiter, job seeker, company	High
UR-003	As a user I want to create my profile	Profile	Recruiter, job seeker, company	High
UR-004	As a user I want to modify my profile	Profile	Recruiter, job seeker, company	High
UR-005	As a user I want to sign up for the service	Sign up	Recruiter, job seeker, company	High
UR-006	As a user, I want to be able to search for profiles on the system.	Search	Company, Job-Seeker, Recruiter	Low
UR-007	As a user, I want to be able to filter my search.	Search	Company, Job-Seeker, Recruiter	High
UR-008	As a user I want to be notified of about a new message.	Message	Company, Job-Seeker, Recruiter	Medium
UR-009	As a user I want to be able to delete my profile if I no longer want the system to hold my information	Delete	Recruiter, job seeker, employer	Medium
UR-010	As a user I want to view my messages	Message	Company, Job-Seeker, Recruiter	High
UR-011	As a company I can post new job listings.	Posting	Company	High
UR-012	As a company I can post remove job listings.	Posting	Company	High
UR-013	As a company I want to view my job listing	Posting	Company	Medium
UR-014	As a company, I want to be able to send a Acceptance/Reject message, so I can reply to Job-seeker and Recruiter requests.	Message	Company	High
UR-015	As a Job-seeker, I want to upload up my resume for employment	Posting	Job-Seeker	High
UR-016	As a Job-seeker, I want to search for job listing	Search	Job-Seeker	High
UR-017	As a job-seeker, I want to search for job listing with filter parameters	Search	Job-Seeker	High
UR-018	As a Job-seeker, I want to be able to send a Job Application to apply for job listing.	Message	Job-Seeker	High
UR-019	As a Job-seeker, I want to be able to view a job listing	Posting	Job-Seeker	High
UR-020	As a Job-seeker, I want to set my job status as actively searching to allow companies or recruiters to message me.	Posting	Job-Seeker	Medium
UR-021	As a recruiter, I want to be able to send a company conection request, so I can hire people for them.	Message	Recruiter	High
UR-022	As a recruiter I want to be able to send a job-seeker a job listing, so they can apply for it.	Message	Recruiter	High
UR-023	As a recruiter I want to be able to view my company's job listings.	Posting	Recruiter	Medium

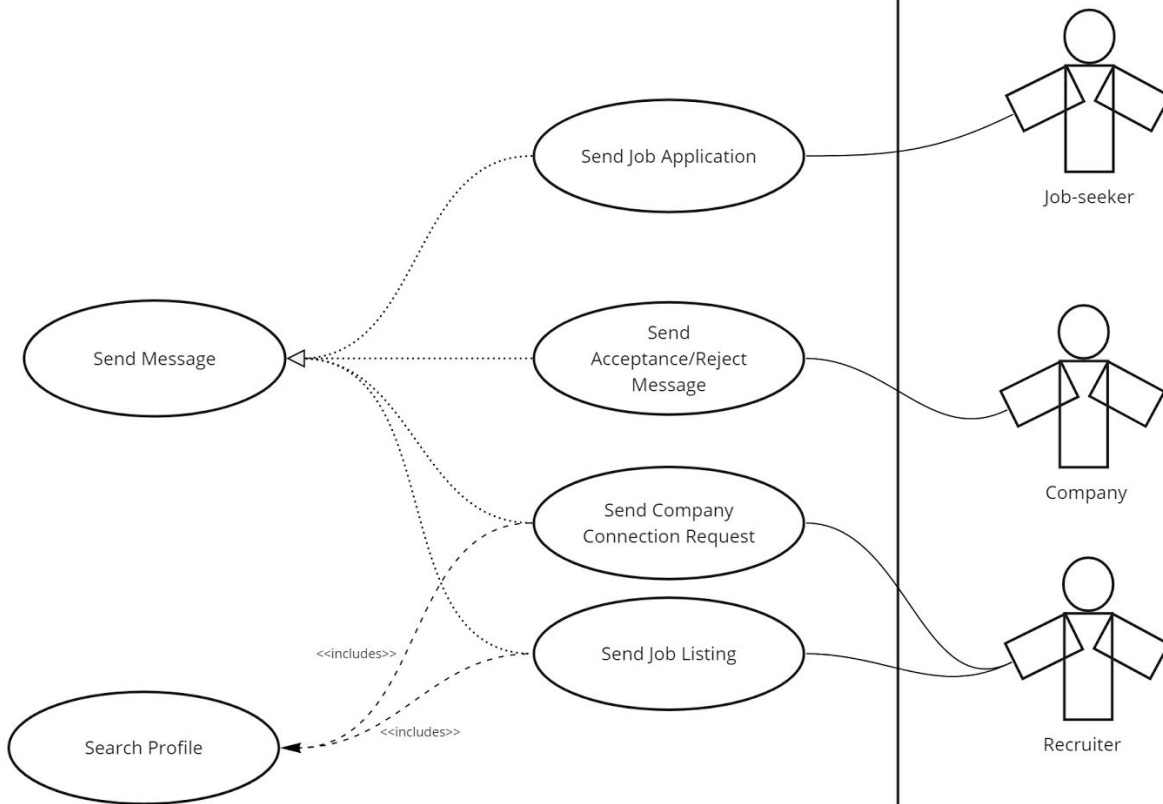
Functional Requirements		
ID	Requirement	Topic Area
FR-001	When a User searches for a profile, it searches through all profiles in the database	Database
FR-002	When ever a company creates/posts information about their company, this information is saved into a database. required information includes: location, company info, industry, size	Database
FR-003	When a company posts a new job listing, the job listing data is saved as a database item, and labeled with the company ID.	Database
FR-004	When a Job-seeker sends their job application to a job posting, it should send the job application message and save the message in the database	Database, Message
FR-005	The job application message can be viewed in an inbox listing by the company	Message
FR-006	When User creates their profile, they specify the type of User they are.	Profile
FR-007	When User creates their profile, they can provide information about their: name, location, employer, phone number, address, email address, major	Status
FR-008	When a job-seeker searches for job postings, the search will go through the database of all job listings.	Search
FR-009	Each User has its own unique userID	Sign up
FR-010	Job-seekers can upload resumes that are only with a specific file type of (PDF or DOCX)	Database

Non-Functional Requirements		
ID	Requirement	Topic Area
NFR-001	Privacy Settings- Needs to have settings to allow job-seekers set whether they are looking for jobs or not. Prevent recruiter spam if they aren't looking.	Privacy
NFR-002	A User should be able to open the website on any web browser with an internet connection. User internet browsing level: beginner to medium.	Usability
NFR-003	When a message is sent, it should appear on the target's view as fast as possible. (within one second range). similar to instant messaging.	Performance
NFR-004	None of the user's tasks are considered as time critical.	Performance
NFR-005	The system should be installed and maintained on a server with a publically accessible address	Supportability
NFR-006	A system administrator only can login with administrator privileges, to maintain and fix problems.	Maintainability
NFR-007	The system should be free to use by anyone.	Legal
NFR-008	The source code is owned by the developers, and not allowed to be viewed or modified without the owners' consent.	Legal

<b>Business Requirements</b>
None



## Message Sending Sub-diagram



<b>Use Case ID:</b>	UC-003
<b>Use Case Name:</b>	<u>Sign Up</u>
<b>Description:</b>	A user should be able to sign up and create a profile so that they can log in.

<b>Actors:</b>	User		
<b>Pre-conditions:</b>			
<b>Postconditions:</b>	User has an account and profile.		
<b>Frequency of Use:</b>	Once per user		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	User clicks sign up button	Opens a form to fill in account information.
	2	User provides account information and profile information they would like to use	
	3	User clicks submit	System stores profile and account information in a database
<b>Variations:</b>			
<b>Exceptions:</b>	If an account with the same username exists, show an error and the system won't store the account or profile information		
<b>Developer Notes:</b>	Account information includes username and password, profile information includes name, fields of work, etc..		

<b>Use Case ID:</b>	UC-001
<b>Use Case Name:</b>	<u>Log In</u>
<b>Description:</b>	A user should be able to log in so they can use services provided by the system.

<b>Actors:</b>	User		
<b>Pre-conditions:</b>	Sign Up		
<b>Postconditions:</b>	User has logged into their account		
<b>Frequency of Use:</b>	Frequent		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	User clicks log in button	Opens a form to fill in account login information.
	2	User provides account login information	
	3	User clicks login button	System checks database for a user with that login and grants access
<b>Variations:</b>			
<b>Exceptions:</b>	If user provides incorrect account login information, they should be shown an error and not be granted access		
<b>Developer Notes:</b>			



<b>Use Case ID:</b>	UC-006
<b>Use Case Name:</b>	<u>Search Profile</u>
<b>Description:</b>	A User can search for other profiles on the system.

<b>Actors:</b>	User		
<b>Pre-conditions:</b>	Sign Up Log In		
<b>Postconditions:</b>	Search results are presented to user.		
<b>Frequency of Use:</b>	Frequent.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	User enters search information in a search bar.	
	2	User clicks on search button.	Shows search results as a drop down list.
<b>Variations:</b>	A user can Filter Profile Search.		
<b>Exceptions:</b>	If no profile fulfills the query parameters then the page displays a Profile Not Found message.		
<b>Developer Notes:</b>	Search filters can include Name, Type, etc..		

<b>Use Case ID:</b>	UC-016
<b>Use Case Name:</b>	<u>Search for Job Listings</u>
<b>Description:</b>	A Job-seeker should be able to search for a job listing so that they can see available options for jobs to apply to.

<b>Actors:</b>	Job-seeker		
<b>Pre-conditions:</b>	Sign Up Log In		
<b>Postconditions:</b>	Job-seeker is presented with available job listings that match their search		
<b>Frequency of Use:</b>	Frequent		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Job-seeker enters search information	
	2	Job-seeker clicks search button	System searches job listings database for matching job listings and presents the results to the user.
<b>Variations:</b>	User may Filter Job Listing Search		
<b>Exceptions:</b>	If no search results are returned, the user is presented with a Job Listing Not Found message		
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC-019
<b>Use Case Name:</b>	<u>View Job Listing</u>
<b>Description:</b>	A Job-seeker should be able to view specific details of a job listing

<b>Actors:</b>	Job-seeker		
<b>Pre-conditions:</b>	Sign Up Log In Search for Job Listings		
<b>Postconditions:</b>	User can look at the specific details of a job listing and may Apply for Job Listing		
<b>Frequency of Use:</b>	Frequent		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Job-seeker clicks on job listing on the search results page	Opens a page with details of the job listing
<b>Variations:</b>			
<b>Exceptions:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC-018
<b>Use Case Name:</b>	<u>Apply for Job Listing</u>
<b>Description:</b>	When a Job-seeker searches and views a job listing they are interested in, Job-seeker can apply to a job listing and the application is sent to the Company who owns the job listing in form of a message.

<b>Actors:</b>	Job-seeker	
<b>Pre-conditions:</b>	Sign Up Log In Search for Job Listings View Job Listing	
<b>Postconditions:</b>	Job-seeker applied for job listing and waits for a response from employer.	
<b>Frequency of Use:</b>	Infrequent	
<b>Flow of Events:</b>		<b>Actor Action</b>
		<b>System Response</b>
	1	Job-seeker clicks on apply button
	2	Job-seeker writes a message to be sent with application.
	3	Job-seeker clicks on Send Job Application button
		Click on send application button, get job-seeker info from database, append info to message and save message in database.
<b>Variations:</b>	Job-seeker may not write a message and send the job application with a blank message.	
<b>Exceptions:</b>		
<b>Developer Notes:</b>		

<b>Use Case ID:</b>	UC-023
<b>Use Case Name:</b>	<u>Send Company Connection Request</u>
<b>Description:</b>	A Recruiter can send a Company Connection Request in the form of message to any company to connect with them and allow the Recruiter to recruit for the Company.

<b>Actors:</b>	Recruiter		
<b>Pre-conditions:</b>	Sign Up Log In		
<b>Postconditions:</b>	Recruiter sends a message to a company and waits for a response.		
<b>Frequency of Use:</b>	Infrequent.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Recruiter clicks on Send Company Connection Request Button	Open a Send Message screen
	2	Recruiter writes a message to be sent with connection request	
	3	Recruiter uses Search Profile box to find message recipients and select them	Shows search results and selection
	4	Recruiter presses on the Send Message button.	Sends a Company Connection request to recipient. Shows a screen with successfully sent.
<b>Variations:</b>			
<b>Exceptions:</b>	Recruiter is already connected with company.		
<b>Developer Notes:</b>	When submitting the message to the company, the message is tagged with the recruiter information sent to companies using the information on the company page. Page should check if the recruiter and company are already connected. If they are then option to connect should be disabled.		

<b>Use Case ID:</b>	UC-013
<b>Use Case Name:</b>	<u>Send Acceptance/Reject Message</u>
<b>Description:</b>	For every request that comes in, the company can send a message with an acceptance or rejection for the request, requests including job application requests and recruiter connection request.

<b>Actors:</b>	Company		
<b>Pre-conditions:</b>	Sign Up Log In		
<b>Postconditions:</b>	Company will have accepted or rejected a request		
<b>Frequency of Use:</b>	Frequent.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Company opens request message.	System displays request message that contains a accept/reject buttons
	2	Company clicks on one of the buttons.	Replies to message sender with the response and performs any additional tasks related to the request.
<b>Variations:</b>	If the request is a Company Connection Request and is accepted, the sending Recruiter's profile is updated so they can work for the company.		
<b>Exceptions:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC-025
<b>Use Case Name:</b>	<u>View Company Job Listings</u>
<b>Description:</b>	A recruiter can view a list of job listings posted by their connected companies. With these job listings, they can refer to them when sending to potential job-seekers.

<b>Actors:</b>	Recruiter		
<b>Pre-conditions:</b>	Sign Up Log In Send Company Connection Request Send Acceptance/Reject Message (Accepted)		
<b>Postconditions:</b>	Recruiter will see a list of their company's posted job listings		
<b>Frequency of Use:</b>	Frequent.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Recruiter clicks View Company Job Listings button	Searches for and displays affiliated company's job listings
<b>Variations:</b>			
<b>Exceptions:</b>			
<b>Developer Notes:</b>	In addition to showing a list of the job listings and company names, it could also include the job code/id, link directly to the job listing, and possibly a small description about the job.		

<b>Use Case ID:</b>	UC-024
<b>Use Case Name:</b>	Send Job Listing
<b>Description:</b>	A Recruiter should be able to send a job listing to a specific Job-seeker via messaging. When a Recruiter is connected to a Company and views their job listing, he has the ability to send that job listing to a Job-seeker on the system as a suggested job.

<b>Actors:</b>	Recruiter	
<b>Pre-conditions:</b>	Sign Up Log In Send Company Connection Request Send Acceptance/Reject Message (Accepted) View Company Job Listings	
<b>Postconditions:</b>	Job Listing Message sent to Job-seeker	
<b>Frequency of Use:</b>	Frequent	
<b>Flow of Events:</b>		<b>Actor Action</b>
		<b>System Response</b>
	1	Recruiter clicks Send Job Listing button
	2	Recruiter uses Search Profile box to find message recipients and select them
	3	Recruiter writes a message
	4	Recruiter presses on the Send Message button.
<b>Variations:</b>		
<b>Exceptions:</b>	If no profile is found, give a profile not found error. If the recruiter is not connected to the company, give a no company connection error.	
<b>Developer Notes:</b>		





## Job listing view for Recruiter

### Senior Software Engineer AND Lead Software Engineer (Data / API)

I'm working with the VP of Engineering who I placed over four years ago at a company that is now the largest provider of free internet in emerging markets in the world. The company makes all mobile content freely accessible and discoverable through technology integrated into the billing systems of hundreds mobile operators and available to 4.56 billion mobile subscribers. To date they have provided over 40 million emerging market users with free, ad-sponsored internet access."

The team over there has recently launched their newest browser which has grown to over 1MM monthly active users in the first 3 months, (and it's projected to hit 5MM monthly actives by the end of the 2017.) They are targeting company profitability in 2018.

#### **Role**

I have two roles I'm working on right now. One for a Lead Engineer and the other for a Senior Engineer – both on the Data which is a mix of software engineers and data scientists.

The APIs that support their browser are written in Python 2.7, but they consider themselves language agnostic as a group. Their data infrastructure uses Kafka, Spark, and Snowflake - all deployed on AWS.

Send Job Listing

## Search Job Listings

 Software Engineer

Job listings



Search

Senior Software Engineer AND Lead Software Engineer (Data / API)  
Company Aba  
Boston, MA

View

Software Engineer / Senior Software Engineer / Sof  
Collabera  
Richardson, TX

View

Software Engineer / Senior Software Engineer / Sof  
Collabera  
Cedar Rapids, IA

View

Senior Software Engineer: Emerging and Software Engineer  
Acxiom Corporation  
San Francisco, CA

View

## Search Users

 Job-seeker

Users 

Search

Justin	Select
Ryan	Select
Zaid	Select
John	Select
Gabe	Select
Jeff	Select

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## Send Application

To: CompanyName

From: Username

Write a message ..

Applying For:

**Senior Software Engineer AND Lead Software Engineer (Data / API)**

\*User information will be sent with the application.

Send Application

## Send Job Listing

To:

From: Recruiter

Write a message ..

Sending Job Listing:

**Senior Software Engineer AND Lead Software Engineer (Data / API)**

Send Job Listing

## Job listing view for Job-seeker

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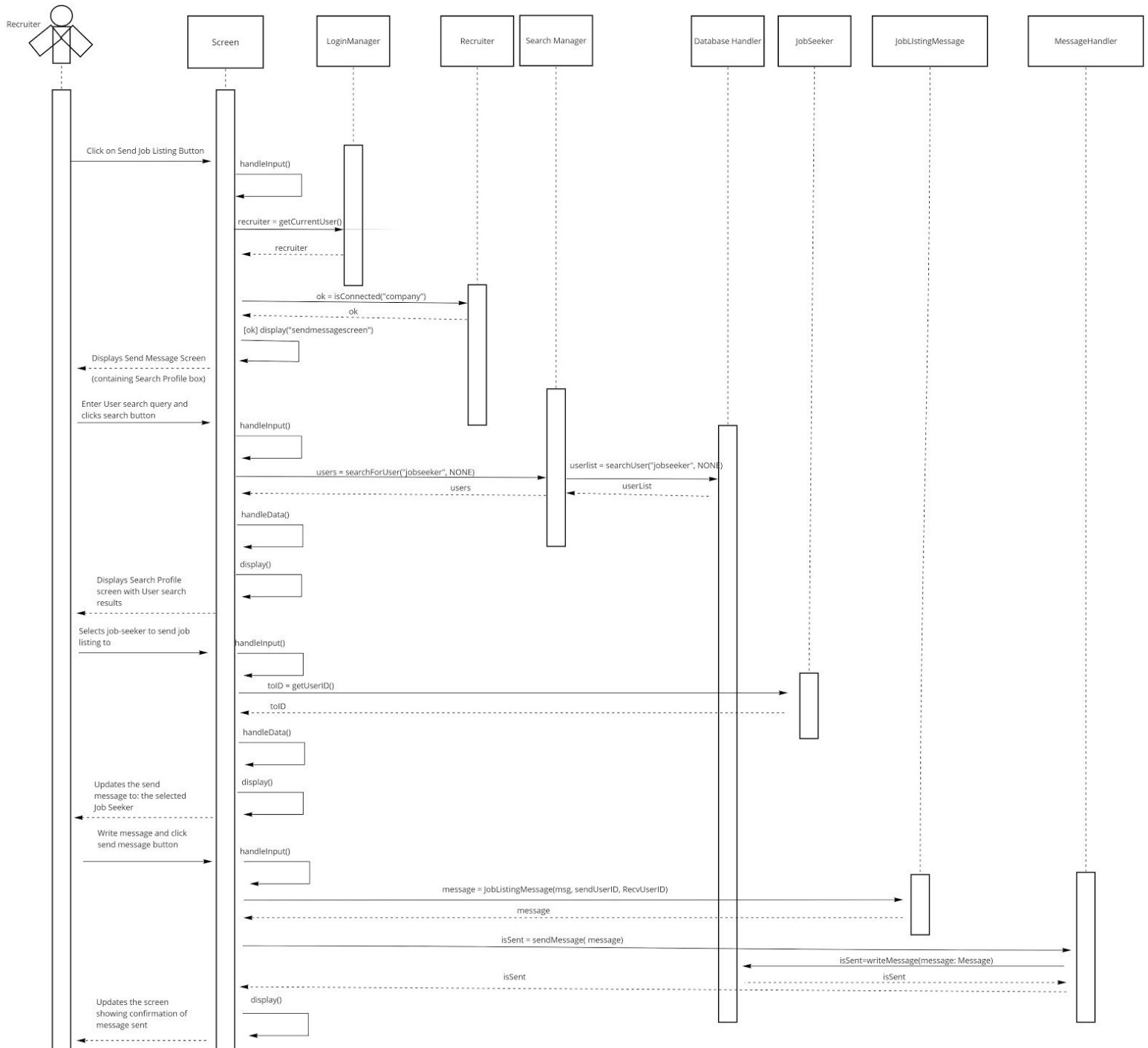
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Apply

## Send Job Listing





# Apply for Job Listing

