

# System Requirement Specification Document



**WADAK.com**  
ONLINE PLATFORM FOR IT  
WORKERS AND HIRE PERSONS

CS Group 18

# Table of Contents

<b>System Requirement Specification Document</b>	<b>1</b>
<b>WADAK.com</b>	<b>1</b>
<b>Table of Contents</b>	<b>2</b>
<b>Group Details</b>	<b>5</b>
<b>1) Introduction Purpose</b>	<b>6</b>
1.1) Purpose	6
1.2) Acronyms, abbreviations, and similar terms	7
1.3) Domain description	9
1.4) Current system & its limitations	10
1.5) Objectives & Goals	11
<b>    1.5.1) Project Goal</b>	<b>11</b>
<b>    1.5.2) Objectives of the system</b>	<b>11</b>
1.6) Assumptions, Constraints and Limitations	12
<b>2) Feasibility Study</b>	<b>13</b>
2.1) Technical Feasibility	13
2.2) Economical Feasibility	14
2.3) Legal & Ethical Feasibility	16
2.4) Operational Feasibility	17
2.5) Schedule Feasibility	18
<b>3) Requirements</b>	<b>19</b>
3.1) Stakeholders	19
Main Tasks :	19
3.2) Use Case Diagram for the entire system	20
Use case diagram for Admin role	22
Use case diagram for CO-Admin role	23
Use case diagram for Service Provider role	24
Use case diagram for Hire person role	25
3.3) Narratives	26
3.4) Functional Requirements	45
3.5) Quality Attributes Requirements	48
Following are the relevant quality attributes planned to be achieved using the system according to ISO standards.	48
Availability	48
Usability	48
Modifiability	48

<b>Security</b>	48
<b>Testability</b>	48
<b>Availability:</b>	48
The system is easily accessible since it is a website. The users of the system can access the system by simply typing the website URL.	48
<b>Usability :</b>	48
The website will be made using simple User-friendly interfaces so that it will be pleasant for the customers to view and understand the system without confusion.	48
New components and functionalities can be added as future enhancements later.	49
E.g.: Leaderboard generation based on the performance of the hired persons and the service providers.	49
Badge generation is based on the category and the performance of the hired persons and the service providers.	49
<b>Security:</b>	49
All user credentials from logins and registrations will be sent securely encrypted from the backend (Hashing mechanisms will be used).	49
o PayHere: For online advance payment functionality	50
o Nexmo: Text message notifications for reservations, password changes etc.	50
Both above modules are in correspondence to data security measures and details regarding them are available in the references.	50
<b>Testability:</b>	50
<b>Performance:</b>	51
The web application will follow the following standards to ensure performance.	51
● Develop the web application in a mobile-friendly manner using methods of developing responsive websites.	51
● Optimizing image size used in the web application.	51
● Using web caching mechanism	51
● Trying to reduce the number of HTTP requests as much as possible.	51
● Using native PHP functions as much as possible	51
● Optimizing the SQL database with normalisation	51
<b>4) Proposed System Architecture</b>	<b>52</b>
<b>5) Design of the System</b>	<b>53</b>
5.1) Class Diagram - <a href="https://app.diagrams.net/#G1UQguIHQ-Fi6bs34BBeCEb1cFMk4-2il_">https://app.diagrams.net/#G1UQguIHQ-Fi6bs34BBeCEb1cFMk4-2il_</a>	53
5.2) Entity-Relationship Diagrams <a href="https://app.diagrams.net/#G1ECQ-z1Mkc3j8Co1SgjUFHUZB1O7Uflz4">https://app.diagrams.net/#G1ECQ-z1Mkc3j8Co1SgjUFHUZB1O7Uflz4</a>	54
5.3) Sequence Diagrams	55
5.4) Activity Diagrams	81
5.5) State Transition Diagrams	119
<b>6) User Interface Flow Diagram and Wireframes</b>	<b>120</b>
6.1) Flow Diagram	120
6.2) Wireframes	121

Home	121
Login	121
Forgot password	122
Change password	123
Registration	124
Login main page	124
User profile	124
User dashboard	125
View Service provider	126
Apply for a job post	126
Update or Delete job post	127
Cancel job post	127
Accept or Reject job apply	128
Add achievement post	128
Delete or Update achievement post	129
Send invitation for a service provider	129
Accept or reject a job application	130
Ask for advertisement	130
Rate & review	131
Delete account	131
Report	131
Chat	132
Q & A session	133
Add question	133
Delete question	134
Delete answer	134
Co-Admin dashboard	135
View hire person	135
Delete hire person	136
News-Co-admin	136
Add news-Co-admin	137
View news - Co-admin	137
Delete / Update news	138
Service provider UI - Admin/Co-admin	138
View service provider - admin/co-admin	139
Delete service provider - admin/co-admin	139
Admin dashboard	139
Category	139
Add category	141
Delete category	141
Add co-admin	142
View co-admin	142
View/Delete//Update co-admin	143
Admin profile	143

**References****143**

## **Group Details**

	<b>Full Name</b>	<b>Registration Number</b>	<b>Index No</b>
1	H.L.H Iduwara	2019/CS/060	19000601
2	D.G.H Kumari	2019/CS/074	19000741
3	S.S Malsha	2019/CS/090	19000901
4	V.D.L Wathsala	2019/CS/180	19001802

### **Details of Project Supervisor, Co-Supervisor and Client.**

**Project Supervisor:** Ms. Sanduni Thrimahavithana

**Co-Supervisor :** Mr. Akila Gamage

**Client(s):** As a general product, anyone willing to join with the Wadak platform.

# 1) Introduction Purpose

## 1.1) Purpose

The purpose of this document is to give a detailed description of the requirements for “**Project:WADAK.COM, online platforms for providing IT services based on client requests**”. It will illustrate the purpose and complete declaration for the development of the system. It will also explain system constraints, low fidelity wireframes, and the UI flow along with all required diagrams.

This document aims to provide a concise description of system requirements, system feasibility, and architecture of the proposed system.

## 1.2) Acronyms, abbreviations, and similar terms

- CS: Computer Science
- HTML: HyperText Markup Language
- IDE: Integrated Development Environment
- IT: Information Technology
- NIC: Network Interface Card
- PC: Personal Computer
- SQL: Structured Query Language
- UML: Unified Modelling Language
- PHP: Hypertext Preprocessor
- JS: JavaScript
- CSS: Cascading Style Sheets
- Q & A: Questions and Answers
- NIC: Network Interface Card
- OO: Object-Oriented
- IEEE: Institute of Electrical and Electronics Engineers

### 1.3) Domain description

After analyzing the online platforms for providing IT services based on client requests, we recognized the following existing problems and their impacts:

- a) There are so many platforms to get services and as well as to provide services, but there are fewer online platforms to find quality IT service providers or to hire those people.
- b) If there is a high-end platform to get or to give services, there is a huge amount of commission rate.
- c) Due to the pandemic situation everything is getting digitized and everyone is looking for online services which can take from the internet to save time.
- d) Hardness to find a talented IT service provider.
- e) Hardness to find genuine clients to provide service.

Based on the above-identified issues we discovered that the following outcomes are of necessity:

To build a system which means an **online platform to meet IT service providers and those people who want to hire service providers.**

As Computer Science undergraduates who have experienced the above issues alongside the online platform for businesses that provide services, we decided to implement a system that would help to manage **online IT services** regarding the above problems with the solutions.

## 1.4 Current system & its limitations

In the present world, still, people use traditional ways to get their needs done. People are still not comfortable with online services. Most of the customers are tend to visit their service provider and give a job because they are not satisfied to give a job without seeing a proper portfolio. Because of this scenario, it's really hard to get a service or provide service in a busy scheduled lifestyle and especially in a pandemic situation. When the world is getting digitalised, entrepreneurs have created many platforms to give jobs and as well as to find jobs. But there are some limitations due to those platforms are created for business purposes.

- The high amount of commission fees, (20% from the buyer, and 20% from the seller).
- On some platforms, it's not easy to post a job post (Upwork ).

## 1.5) Objectives & Goals

### 1.5.1) Project Goal

To produce a fully functioning, user-friendly system,

- For the person who wants to find an IT service provider to get their needs done, and to find a service provider, to communicate with service providers, to publish their job request posts and share them, Publish their job post as an advertisement and find solutions with giving less amount of commission rate for their questions with the help of the community.

and

- For the person who likes to give their service to find job opportunities and apply for those jobs in an effective manner, share their profile with the community, publish their achievements and get interaction, publish their advertisements for more reachability and find solutions for their questions with the help of the community. The people who would like to do a part-time job related to their IT knowledge, this system will be a very effective platform.

### 1.5.2) Objectives of the system

- To produce the above-mentioned system with every component fully functional.
- To solve all problems related to business to business platforms and to make them satisfied in using our system.
- To make the system ‘user-friendly’ to the user as much as possible by creating easy-to-use and efficient user screens.
- To gain a learning experience on how software is made by working together and increasing web developing knowledge.

## 1.6) Assumptions, Constraints and Limitations

### Assumptions:

- The end-users of the system will be able to understand and manage the functionality since it requires only basic IT and English knowledge to handle the system.
- Users will have a device and an internet connection to access the web application.
- Users will be able to handle the online payment system.
- Users will be able to understand English.

### Constraints and limitations:

- Only system administrators will be able to create co-admins accounts.
- Only Administrators will be able to generate reports and view statistics.
- To give or to get a job only for registered users.
- Payments between the hire person and the service provider will not happen through our system.

## 2) Feasibility Study

### 2.1) Technical Feasibility

We plan to use HTML, PHP, JavaScript, and MySQL as our implementation techniques. All IDEs used for development are free and open-source and are considered simple to handle for CS students.

Laptops and desktops that are already owned will be used for our project hardware requirements.

IDEs:

- Visual Studio Code
- Notepad++
- Sublime text

#### Tools & Utilities:

- XAMPP
- Version management - GitHub
- Draw.io - UMLs & diagrams
- Adobe Illustrator, Adobe Photoshop - for logo making
- Microsoft Office 365 (Student edition provided free for university email)
- Google docs
- Notepad
- Grammarly - Free edition to eliminate grammar mistakes

Hardware:

- Network equipment: (NIC), cables (eg: RJ45) and routers.
- Personal laptops.

All the above-mentioned resources are easily usable within our knowledge limits. Hence **the project is technically feasible.**

## 2.2) Economical Feasibility

### Main Costs of the project :

1. Domain registration and renewal - Year by Year

### Discover .com domain prices

	1 YEAR	2 YEARS	3 YEARS	4 YEARS	5 YEARS
.com registration	\$8.88	\$17.76	\$26.64	\$35.52	\$44.40
.com renewal	\$12.98	\$25.96	\$38.94	\$51.92	\$64.90
.com transfer	\$8.58 SPECIAL \$8.58	—	—	—	—

2. Costs for hosting

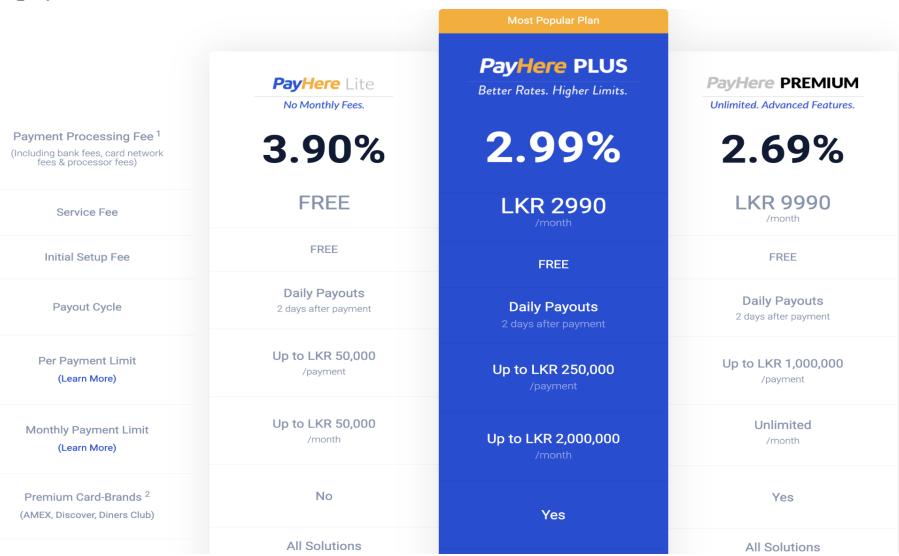
Namecheap web server Stellar package - \$2.88/mo

The screenshot shows the 'Shared Hosting Plans' section of the Namecheap website. It features three main hosting plans:

- Stellar**: \$2.88/mo. Includes 3 Websites, 20 GB SSD, and Free CDN (BETA). Renewal price is \$2.88/month.
- POPULAR Stellar Plus**: \$4.88/mo. Includes Unlimited Websites, Unmetered SSD, Free CDN (BETA), and AutoBackup. Renewal price is \$4.88/month.
- ON CLOUD Stellar Business**: \$8.88/mo. Includes Unlimited Websites, 50 GB SSD, Free CDN (BETA), and AutoBackup & Cloud Storage. Renewal price is \$8.88/month.

Each plan has a 'Get Started' button. Below the plans, it says 'All plans also include these benefits:' followed by 'Unmetered bandwidth'.

### 3. Cost for payHere sandbox module - Free



- As mentioned above, free, and open-source software and applications will be used except Adobe package. There will be no software left to purchase.
- The tools which we are planning to use are languages such as PHP, C++, HTML, CSS, MySQL, Javascript and the collaboration tools Github, Google Drive which are almost freely available.
- No additional hardware costs.
- Project is done by only team members and no developer fee to be paid.
- Our own routers and internet plans will be used. Data usage might increase more than normal but it will not be a huge unbearable amount.
- Other services such as hosting and SMS gateway will be freemium services.
- In case of any hardware failure, there might be costs for replacement (this is very unlikely to happen).
- For the 1st part of the project, communication costs might be high because of the current Covid-19 situation as we are forced to use distance communication via mobile phones and zoom meetings.
- Paperwork cost is planned to be reduced by using electronic media (notebook, word editor, docs) as much as possible.

**Since there are no considerable expenses the project is economically feasible.**

## 2.3) Legal & Ethical Feasibility

Access to the hire person's details or to the service provider's details will not be allowed for any user of the system except for the following logins:

- Admin - Since this is the admin of the system all access will be granted.
- Co-admin - Since this is the person who has the functionality of communicating with the hired persons or the service providers and he is the person who has the responsibility of the system after the Admin has access to those details.

All login, credit card details will be sent through an encrypted medium when doing online payments.

The only part in which users will have to provide data to 3rd parties will be for the online advanced payment function, it will require user consent. All transfers will be done with trusted, standardized payment providers over a secured connection.

**Since there are neither legal or ethical conflicts, the project is legally and ethically feasible.**

## 2.4) Operational Feasibility

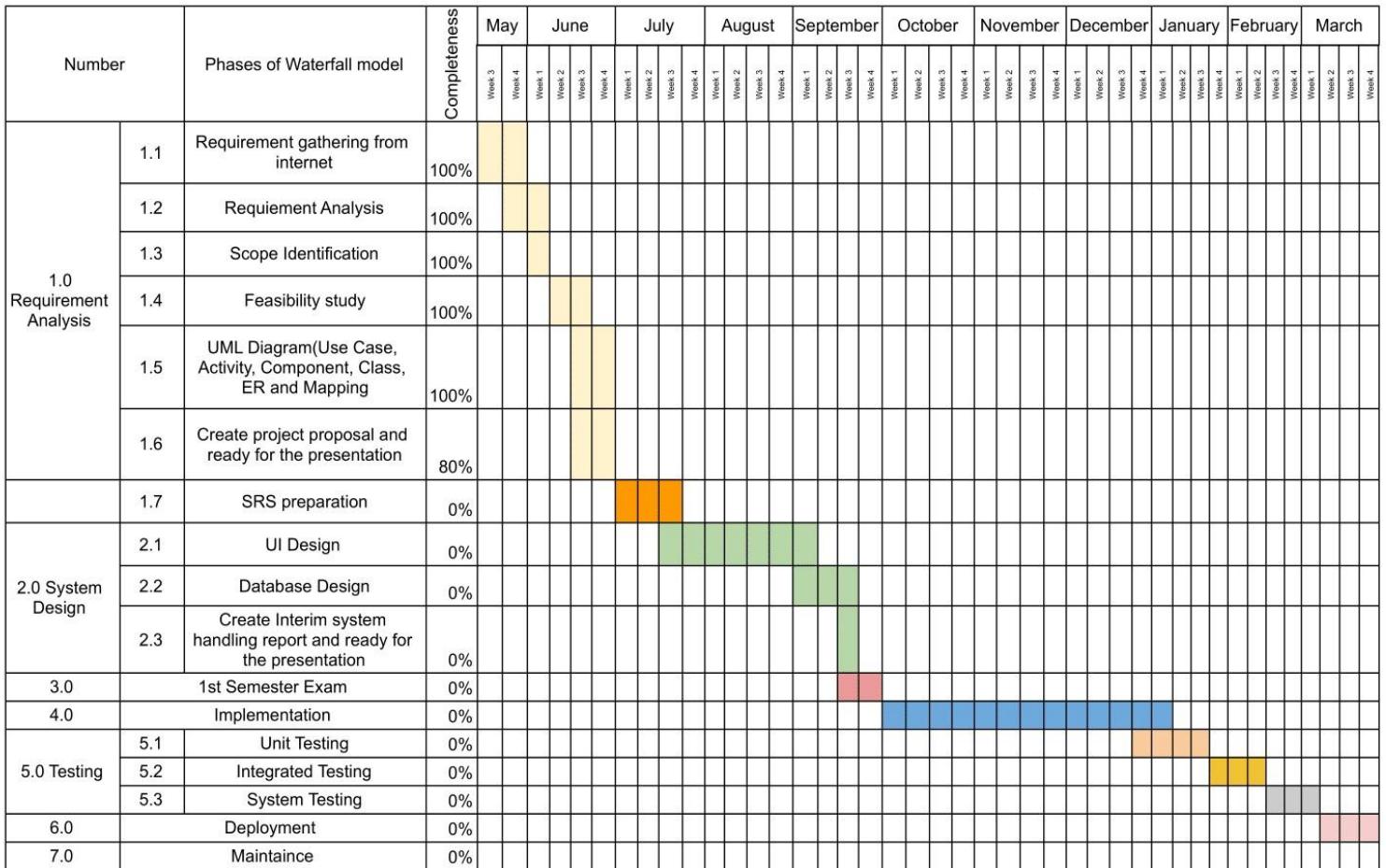
We are going to establish a system for those basically who are already in the IT sector or for those who already have medium IT knowledge because this system is for those who want to serve as an IT service provider or for those who want to hire IT, service providers. So we assume that the persons who will engage with this system will have medium IT knowledge and English knowledge.

Basically, the main two secondary users of the system are the hire person and the service provider. The main aim of a hire person is to find a service provider for his/her needs. For that purpose, systems basically provide filtering criteria to choose the required service type when searching service providers. Also, the hire person can see the service provider's profile, the rates and reviews about him/her. In addition, the system provides a chat facility with the service provider. If hire person is satisfied to get the service, then he/she can send the invitation to the service provider to request him/her to provide service. The main aim of the service provider is to find suitable jobs for him/her. he /she can view job posts using filtering criteria and can apply for the job posts.

All these are basically simple functions and any person can do all these things with the correct flow without any hazard. The system will provide guiltiness for those who need to understand what the system is doing and how to engage with the system. So the system can be easily used. Because there will be no need of getting training or getting preparation, **the project is operationally feasible.**

## 2.5) Schedule Feasibility

- A time span of 10 months is available to complete the system and the **Gantt chart is attached in section 10.**
- There are 4 members in the group so there is satisfactory time, therefore **the project is Schedually feasible.**



## 3) Requirements

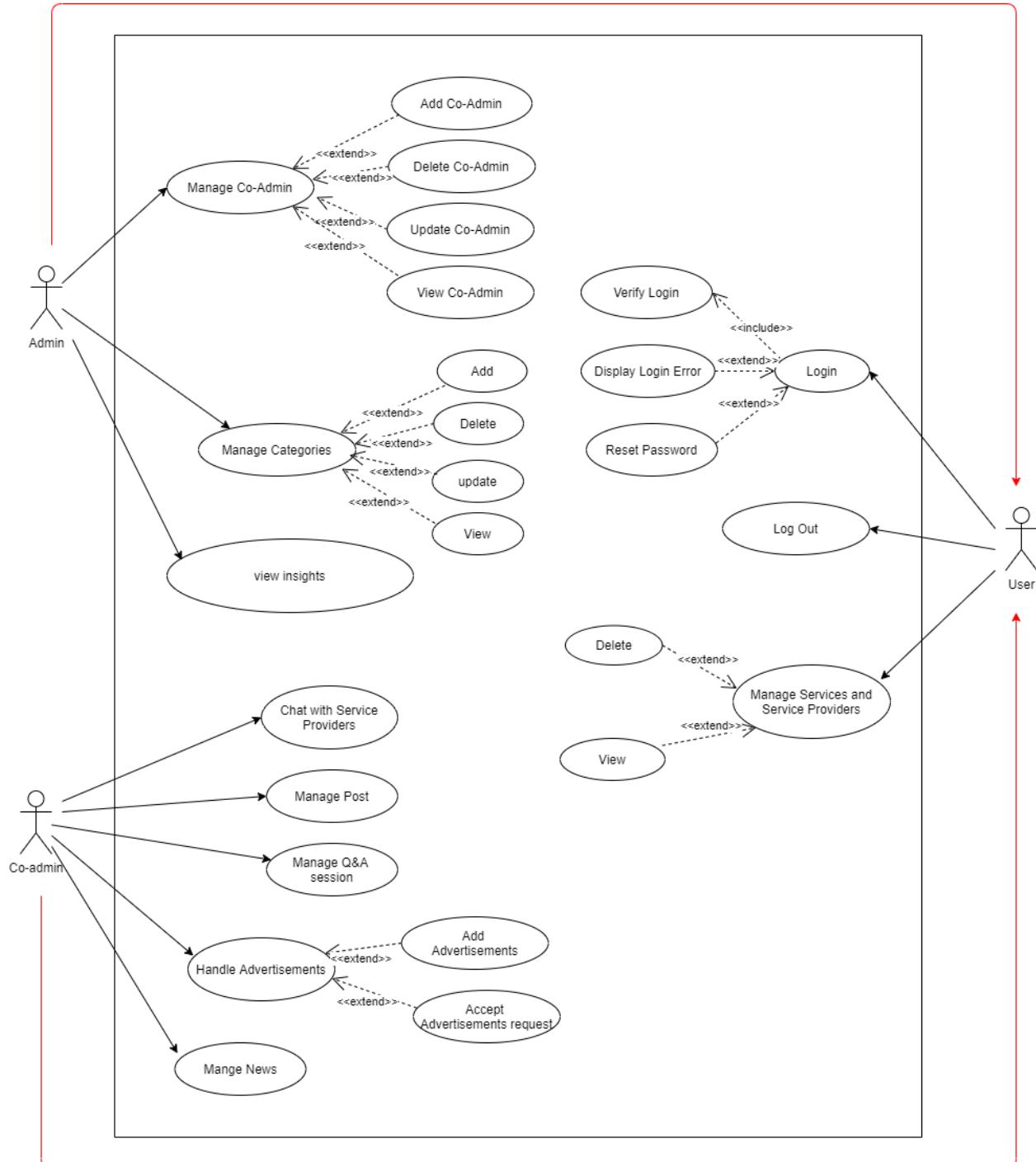
### 3.1) Stakeholders

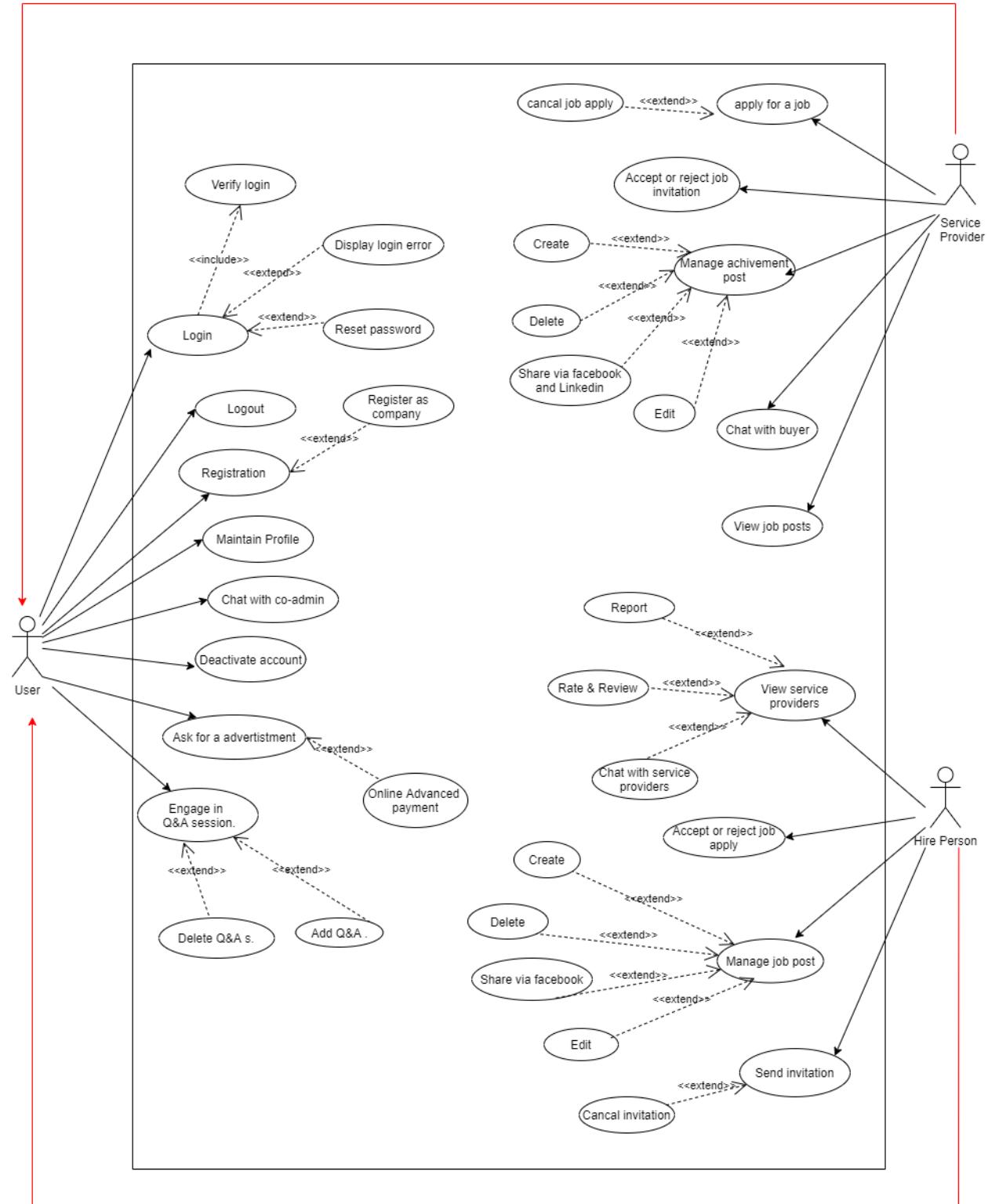
1. Admin
2. Co-Admin
3. Hire Person
4. Service Provider

### Main Tasks :

- Manage co-admins, service providers, and Hire person, manage website, report generation for the Admin.
- Manage service providers and hire persons, handle the advertisements through the system, manage Q&A sessions for co-admin.
- Contacting the service provider, rating, reviewing, and reporting functionalities for the hire person.
- Contact the hire persons for the service provider.

### 3.2) Use Case Diagram for the entire system

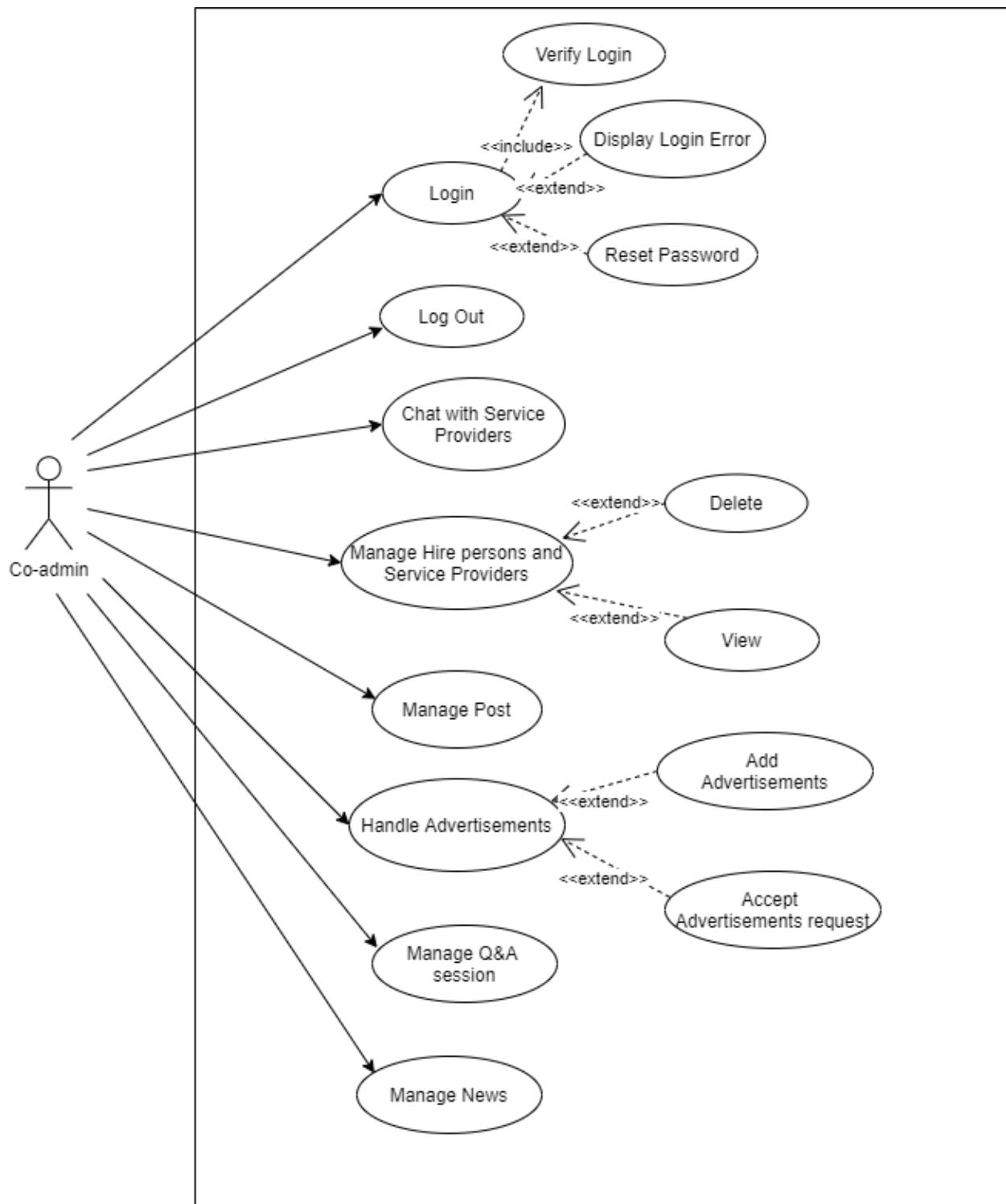




## Use case diagram for Admin role



## Use case diagram for CO-Admin role



## Use case diagram for Service Provider role



## Use case diagram for Hire person role



### 3.3) Narratives

<b>Use Case</b>	Login	<b>Summary</b>
<b>Use Case ID</b>	01	Need username and password to login. (security)  User can reset password when he or she forgets the password(security)
<b>Actors</b>	Admin, Co-Admin, Hire person, Service provider	
<b>Preconditions</b>	Registered as Admin, Co-admin, Hire person or service provider.	
<b>Description</b>	All users can login by giving a username and password.  User can reset the password when he or she forgot the password.	
<b>Exception</b>	The user has not been registered.	
<b>Post Conditions</b>	Display you have logged in successfully.	

<b>Use Case</b>	Change Login Password	<b>Summary</b>
<b>Use Case ID</b>	02	Users can change their own password. (security)
<b>Actors</b>	Admin, Co-Admin, Hire person, Service provider	
<b>Preconditions</b>	Login has been done through Super-Admin, Admin, Hire person, or Service provider.	
<b>Description</b>	Users can change their password.	
<b>Exception</b>	Forget the previous password.	
<b>Post Conditions</b>	If any other matters to attend to, can logout.	

<b>Use Case</b>	Logout	<b>Summary</b>
<b>Use Case ID</b>	03	Users can logout of their profile after using the system. (security)
<b>Actors</b>	Admin,Co-Admin,Hire person,Service provider	
<b>Preconditions</b>	Login done through Admin,Co-Admin,Hire person,or Service provider	
<b>Description</b>	Users can log out of their own profile after this web system is used.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Login before reuse the system.	

<b>Use Case</b>	Register	<b>Summary</b>
<b>Use Case ID</b>	04	Can create accounts for user groups. Hire persons can register as a personal account or company account.
<b>Actors</b>	Hire person, Service provider	
<b>Preconditions</b>	-	
<b>Description</b>	They can create an account with their details such as whether they are hire persons or service providers, personal details , categories they belong to which would facilitate maintaining their profile.	
<b>Exception</b>	Invalid data for the fields.	
<b>Post Conditions</b>	If success : Account created in database.	

<b>Use Case</b>	Update profile.	<b>Summary</b>
<b>Use Case ID</b>	05	They can change their account details.
<b>Actors</b>	Hire person, Service provider	
<b>Preconditions</b>	Login through Hire person or service provider account.	
<b>Description</b>	They can change their details such as name, contact details, profile picture, category etc.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Update database.	

<b>Use Case</b>	Add Co-admin.	<b>Summary</b>
<b>Use Case ID</b>	06	Admin can add co-admins who are joining newly to the database.
<b>Actors</b>	Admin	
<b>Preconditions</b>	Login to the system as Admin.	
<b>Description</b>	When an admin wants to add a co-admin, admin can add a co-admin by adding his details to the database.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Issue Id and password to co-admins via SMS and update database.	

<b>Use Case</b>	Delete co-admin	<b>Summary</b>
<b>Use Case ID</b>	07	Admin can remove co-admins from the system.
<b>Actors</b>	Admin	
<b>Preconditions</b>	Login through Admin account.	
<b>Description</b>	Admin is able to get decisions whether the co-admin is necessary or not. Data will be deleted from the database.	
<b>Exception</b>	Invalid search.	
<b>Post Conditions</b>	Send an information message to the co-admin if there are no other matters to attend to, can log out.	

<b>Use Case</b>	Update co-admin	<b>Summary</b>
<b>Use Case ID</b>	08	Admin can update co-admin personal details.
<b>Actors</b>	Admin	
<b>Preconditions</b>	Login through Admin account.	
<b>Description</b>	Only Admin able to update co-admin personal details. It will ensure the confidentiality of the co-admin details. Data will be updated in the database.	
<b>Exception</b>	Invalid search.	
<b>Post Conditions</b>	Send an informative message to the co-admin if any other matters to attend to, can logout.	

<b>Use Case</b>	View co-admin	<b>Summary</b>
<b>Use Case ID</b>	09	Admin can view relevant details of co-admins which are included in the database.
<b>Actors</b>	Admin	
<b>Preconditions</b>	Login as Admin.	
<b>Description</b>	If there is a need to view details of co-admins in the website, Admin can search the co-admin's details and then view the relevant details.	
<b>Exception</b>	Invalid search.	
<b>Post Conditions</b>	If not any other matters to attend to, can logout.	

<b>Use Case</b>	Delete Hire person or service provider.	<b>Summary</b>
<b>Use Case ID</b>	10	Admin and co-admin can remove Hire persons or service providers from the system.
<b>Actors</b>	Admin, Co-admin	
<b>Preconditions</b>	Login through Admin or co-admin account.	
<b>Description</b>	Admin and co-admin are able to get decisions whether the service provider or hire person is necessary or not. Data will be deleted from the database.	
<b>Exception</b>	Invalid search.	
<b>Post Conditions</b>	Send an information message to the co-admin if there are no other matters to attend to, can log out.	

<b>Use Case</b>	View Hire person or service provider.	<b>Summary</b>
<b>Use Case ID</b>	11	Admin or co-admin can view relevant details of the Hire person or service provider which are included in the database.
<b>Actors</b>	Admin, Co-Admin	
<b>Preconditions</b>	Login as Admin or Co-Admin.	
<b>Description</b>	If there is a need to view details of Hire persons or service providers in the website, Admin or co-admin can search their details and then view the relevant details.	
<b>Exception</b>	Invalid search.	
<b>Post Conditions</b>	If not any other matters to attend to, can logout.	

<b>Use Case</b>	View the report of current users.	<b>Summary</b>
<b>Use Case ID</b>	12	Admin can view reports about the current number of Hire persons, service providers and number of deactivated accounts and reasons.
<b>Actors</b>	Admin	
<b>Preconditions</b>	Login through the admin account.	
<b>Description</b>	Only Admin can view the report about the current number of Hire persons, service providers according to their category and number of deactivated accounts and the reasons for it which will help to improve the website.	
<b>Exception</b>	-	

<b>Post Conditions</b>	If not any other matters to attend to, can logout.
------------------------	----------------------------------------------------

<b>Use Case</b>	Add new category	<b>Summary</b>
<b>Use Case ID</b>	13	Admin can add new categories to the system.
<b>Actors</b>	Admin	
<b>Preconditions</b>	Login through the admin account.	
<b>Description</b>	When an admin needs to add a new category to the system, he can do it and update the database.	
<b>Exception</b>	-	
<b>Post Conditions</b>	If not any other matters to attend to, can logout.	

<b>Use Case</b>	Delete existing category	<b>Summary</b>
<b>Use Case ID</b>	14	Admin can delete existing categories from the system.
<b>Actors</b>	Admin	
<b>Preconditions</b>	Login through the admin account.	
<b>Description</b>	When Admin needs to remove an existing category from the system, he can do it. When the category is deleted, if there are accounts that belong to that category, then that category can not be deleted..	
<b>Exception</b>	Invalid search.	
<b>Post Conditions</b>	If not any other matters to attend to, can logout.	

<b>Use Case</b>	Update existing category	<b>Summary</b>
<b>Use Case ID</b>	15	Admin can update existing categories from the system.
<b>Actors</b>	Admin	
<b>Preconditions</b>	Login through the admin account.	
<b>Description</b>	When Admin needs to update an existing category from the system, he can do it. When the category is updated, the accounts belong to that category will also be updated.	
<b>Exception</b>	Invalid search.	
<b>Post Conditions</b>	If not any other matters to attend to, can logout.	

<b>Use Case</b>	Chat with Hire persons or service providers.	<b>Summary</b>
<b>Use Case ID</b>	16	If there is an issue or fact that hiring persons or service providers arise, co-admin can give advice through the chat section.
<b>Actors</b>	Co-admin	
<b>Preconditions</b>	Login as co-admin.	
<b>Description</b>	Co-admins can communicate with hire persons or service providers through the chat section.	
<b>Exception</b>	-	
<b>Post Conditions</b>	If not any other matters to attend to, can logout.	

<b>Use Case</b>	Chat with co-admins.	<b>Summary</b>
<b>Use Case ID</b>	17	If there is an issue or fact that needs to be clarified, hire persons and service providers can contact co-admins through the chat section.
<b>Actors</b>	Service provider or hire person.	
<b>Preconditions</b>	Login as service provider or hire person.	
<b>Description</b>	Hire persons or service providers can communicate with co-admins through the chat section.	
<b>Exception</b>	-	
<b>Post Conditions</b>	If not any other matters to attend to, can logout.	

<b>Use Case</b>	Chat with service providers or hire persons.	<b>Summary</b>
<b>Use Case ID</b>	18	If there is an issue or fact that needs to be clarified, hire persons and service providers can contact each other through the chat section of the service provider.
<b>Actors</b>	Service provider or hire person.	
<b>Preconditions</b>	Login as a service provider or a hire person.	
<b>Description</b>	Hire persons or service providers can communicate with each other through the chat section of the service provider.	
<b>Exception</b>	-	
<b>Post Conditions</b>	If no other matters to attend to, can log out.	

<b>Use Case</b>	Deactivate the account	<b>Summary</b>
<b>Use Case ID</b>	19	Hire person, Service provider can deactivate their account if they do not want to be available in the system anymore.
<b>Actors</b>	Hire person, Service provider.	
<b>Preconditions</b>	Log in as a service provider or a hire person.	
<b>Description</b>	Hire person, Service provider can close their account if they do not want to be available in the system anymore by selecting the reason for account deactivation. Data will be deleted from the database.	
<b>Exception</b>	Do not select reasons through provided reasons.	
<b>Post Conditions</b>	If no other matters to attend to, the account is deactivated.	

<b>Use Case</b>	Create job post	<b>Summary</b>
<b>Use Case ID</b>	20	Hire people can create job posts according to their perspectives.
<b>Actors</b>	Hire person	
<b>Preconditions</b>	Login through a hire person account.	
<b>Description</b>	Hire people can create job posts after selecting relevant categories.	
<b>Exception</b>	Do not select a category.	
<b>Post Conditions</b>	Post is created and can be viewed.	

<b>Use Case</b>	Delete or edit a job post	<b>Summary</b>
<b>Use Case ID</b>	21	Hire people can delete or edit job posts according to their perspective.
<b>Actors</b>	Hire person	
<b>Preconditions</b>	Login through a hire person account and a post must be created before.	
<b>Description</b>	Hire persons can delete or edit job posts after creating them.	
<b>Exception</b>	-	
<b>Post Conditions</b>	The post is deleted or edited.	

<b>Use Case</b>	Share job post	<b>Summary</b>
<b>Use Case ID</b>	22	Hire persons who can share their job posts through facebook.
<b>Actors</b>	Hire person	
<b>Preconditions</b>	Login through a hire person account.	
<b>Description</b>	Hire persons can share their job posts through facebook.	
<b>Exception</b>	Do not login into the relevant facebook account.	
<b>Post Conditions</b>	Post is shared.	

<b>Use Case</b>	Create an achievement post.	<b>Summary</b>
<b>Use Case ID</b>	23	Service providers can create achievement posts according to their perspectives.
<b>Actors</b>	Service provider.	
<b>Preconditions</b>	Login through a service provider account.	
<b>Description</b>	Service providers can create achievement posts.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Post is created and can be viewed.	

<b>Use Case</b>	Delete or edit an achievement post.	<b>Summary</b>
<b>Use Case ID</b>	24	Service providers can delete or edit achievement posts according to their perspectives.
<b>Actors</b>	Service provider.	
<b>Preconditions</b>	Login through a service provider account and a post must be created before.	
<b>Description</b>	Service providers can delete or edit their achievement posts created before.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Post is deleted or edited.	

<b>Use Case</b>	Share job post	<b>Summary</b>
<b>Use Case ID</b>	25	Hire people can share their achievement posts through facebook.
<b>Actors</b>	Service provider.	
<b>Preconditions</b>	Login through a service provider account and post must be created before.	
<b>Description</b>	Service providers can share their achievement posts through facebook.	
<b>Exception</b>	Do not login into the relevant facebook account.	
<b>Post Conditions</b>	Post is shared.	

<b>Use Case</b>	Manage post	<b>Summary</b>
<b>Use Case ID</b>	26	Co-admin can manage both posts including job posts and achievement posts.
<b>Actors</b>	Co-admin	
<b>Preconditions</b>	Login through a Co-admin account.	
<b>Description</b>	If there are posts that are not related to the system, the co-admin can delete those posts.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Post is deleted.	

<b>Use Case</b>	Rate and review service provider	<b>Summary</b>
<b>Use Case ID</b>	27	Hire people can rate and review service providers in the service provider's profile.
<b>Actors</b>	Hire person	
<b>Preconditions</b>	Login as hire person	
<b>Description</b>	Hire person can rate and review the service providers. These two options are available in service providers profiles.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Rate is done and review is created.	

<b>Use Case</b>	Report service provider	<b>Summary</b>
<b>Use Case ID</b>	28	Hire people can report service providers in the service provider's profile.
<b>Actors</b>	Hire person	
<b>Preconditions</b>	Login as hire person	
<b>Description</b>	Hire persons can rate and review service providers. These two options are available in service provider profiles.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Rate is done and review is done..	

<b>Use Case</b>	Send an invitation.	<b>Summary</b>
<b>Use Case ID</b>	29	Hire person can send an invitation to the service provider.
<b>Actors</b>	Hire person.	
<b>Preconditions</b>	Login as a hire person and should be in the service provider's profile.	
<b>Description</b>	A hire person can send an invitation to the service provider by filling in relevant details.	
<b>Exception</b>	Do not fill out the invitation details.	
<b>Post Conditions</b>	Invitation is sent.	

<b>Use Case</b>	Cancel an invitation.	<b>Summary</b>
<b>Use Case ID</b>	30	Hire person can cancel the previously sent invitation to the service provider.
<b>Actors</b>	Hire a person.	
<b>Preconditions</b>	Login as a hire person.	
<b>Description</b>	The Hired person can cancel the previously sent invitation to the service provider.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Invitation is canceled.	

<b>Use Case</b>	Accept or reject job apply for a post.	<b>Summary</b>
<b>Use Case ID</b>	31	Hire person can accept or reject job applications sent by service providers.
<b>Actors</b>	Hire a person.	
<b>Preconditions</b>	Log in as a hire person.	
<b>Description</b>	The Hire person can send an invitation to the service provider by filling relevant details.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Job application is accepted or rejected.	

<b>Use Case</b>	Apply for a job post.	<b>Summary</b>
<b>Use Case ID</b>	32	The service provider can apply for a job post created by a hire person.
<b>Actors</b>	Service provider.	
<b>Preconditions</b>	Log in through a service provider account.	
<b>Description</b>	The service provider can apply for a job post created by a Hire person.	
<b>Exception</b>	Do not fill in relevant details.	
<b>Post Conditions</b>	Job apply is sent.	

<b>Use Case</b>	Accept or reject job invitation.	<b>Summary</b>
<b>Use Case ID</b>	33	Service providers can accept or reject job invitations sent by a Hire person.
<b>Actors</b>	Service provider.	
<b>Preconditions</b>	Login through a service provider account.	
<b>Description</b>	Service providers can accept or reject job invitations sent by a Hire person.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Job invitation is accepted or rejected.	

<b>Use Case</b>	Add Q&A	<b>Summary</b>
<b>Use Case ID</b>	34	Hire persons and service providers can add Q&A in the Q&A section.
<b>Actors</b>	Hire person, Service provider	
<b>Preconditions</b>	Login as a hire person or a service provider.	
<b>Description</b>	Both hire persons and service providers can publish their questions in the Q&A session as well as can reply to the questions.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Q&A is published.	

<b>Use Case</b>	Delete Q&A	<b>Summary</b>
<b>Use Case ID</b>	35	Hire persons and service providers can delete Q&A in the Q&A section.
<b>Actors</b>	Hire person, Service provider	
<b>Preconditions</b>	Login as a hire person or a service provider./Q&A must be published before.	
<b>Description</b>	Both hire persons and service providers can delete their published questions in the Q&A session as well as delete replies to the questions.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Q&A is deleted.	

<b>Use Case</b>	Manage Q&A sessions.	<b>Summary</b>
<b>Use Case ID</b>	36	Co-admin can delete Q&A s in the Q & A section.
<b>Actors</b>	Co-admin	
<b>Preconditions</b>	Login as a co-admin.	
<b>Description</b>	If there are Q&As which are not related to the system, the co-admin can delete those Q&A from the system.	
<b>Exception</b>	-	
<b>Post Conditions</b>	Q&A is deleted	

<b>Use Case</b>	Ask for a advertisement	<b>Summary</b>
<b>Use Case ID</b>	37	Both hired persons or service providers can request for their image(png or jpeg format) advertisement.
<b>Actors</b>	Hire person, Service provider	
<b>Preconditions</b>	Login as a hire person or service provider.	
<b>Description</b>	Both hired persons or service providers can request for their image(png or jpeg format) advertisement.	
<b>Exception</b>	Did not fill the required sections.	
<b>Post Conditions</b>	Request is sent.	

<b>Use Case</b>	Online advanced payments.	<b>Summary</b>
<b>Use Case ID</b>	38	Can pay advance even online (quality)
<b>Actors</b>	Hire person, Service provider	
<b>Preconditions</b>	Should be in “Apply advertisement”	
<b>Description</b>	Users can select a payment method and pay the advance. All authentication will be handled by the online payment module.	
<b>Exception</b>	Payment method error, Insufficient balance.	
<b>Post Conditions</b>	If success: perform transaction	

### **3.4) Functional Requirements**

There are 4 types of users that concern the system.

- Admin
- Co-Admin
- Service provider
- Hire person

Following are the requirements that we identified.

#### **For all users**

- Shall be able to Login into the system.
- Shall be able to Logout from the system.

#### **Admin**

- Shall be able to Manage co-admins. (Add, Delete, Update, View)
- Shall be able to Manage hire persons & service providers. (Delete, View)
- Shall be able to Manage service Categories (Add, Delete, Update, View)
- Shall be able to View reports of the view insights.

#### **Co-Admin**

- Shall be able to Manage hire persons & service providers. (Add, Delete, Update, View)
- Shall be able to Handle the chat with hire persons & service providers.
- Shall be able to Manage posts.
- Shall be able to Manage News.
- Shall be able to Manage Q&A sessions.
- Shall be able to Handle Advertisements.
- Shall be able to Accept advertisement requests and Add advertisements.

For both hire person & service provider

- Shall be able to register to the system
- Shall be able to deactivate the account.
- Shall be able to chat with co-Admin.
- Shall be able to chat with each other. (hire person & service provider)
- Shall be able to maintain profile.
- Shall be able to ask for advertisements.
- Shall be able to do online payments for advertisements
- Shall be able to engage in a Q & A session.

**Job application** - when the hire person publishes a job post, the service provider can view it and can apply for it. system will give notification for both of them.

**Job Invitation** - Hire persons can view the service provider's profile and there is an option to send an invitation. From it, a Hire person can send an invitation to the service provider. system will give notification for both of them.

### Hire person

- Shall be able to view service providers.
- Shall be able to report service provider
- Shall be able to rate and review service providers.
- Shall be able to accept or reject job applications (System will give a notification).
- Shall be able to manage job posts. Create, Delete, Update and share on facebook.
- Shall be able to send and cancel invitations sent to the service provider.

## Service provider

- Shall be able to view job posts.
- Shall be able to send and cancel job applications sent to the hire person(System will give a notification).
- Shall be able to manage achievement posts. Create, Delete, Update and share on facebook.
- Shall be able to accept or reject job invitations(System will give a notification).

## System

- Should provide **Intelligence suggestions** when searching service providers or job posts.
- Should provide **filtering criteria** when searching service providers or job posts.
- Should provide **badges** based on the category and the performance of the service providers and the hire persons.
- Should provide **a place on the leaderboard** based on the category and the performance of the service providers and the hire persons.
- Should generate reports based on the current users of the system.
- Should facilitate online method for advanced payments for advertisements.
- System will give a notification in the cases of job applications and invitations.

### 3.5) Quality Attributes Requirements

Following are the relevant quality attributes planned to be achieved using the system according to ISO standards.

- ❖ Availability
- ❖ Usability
- ❖ Modifiability
- ❖ Security
- ❖ Testability
- ❖ Performance

#### **Availability:**

- The system is easily accessible since it is a website. The users of the system can access the system by simply typing the website URL.
- The online payment function will be done using the PayHere module. Even though it is a 3rd party integration, reliability is ensured.
- The system databases will be programmed to back up on a regular basis.
- The system will be optimized to give the best resolution across different devices for the website.

#### **Usability :**

- The website will be made using simple User-friendly interfaces so that it will be pleasant for the customers to view and understand the system without confusion.
- New users can easily learn the procedure of the system.
- Easy navigation and developed according to the standard UI principles.
- Instructions, tips and examples will be provided in the interface where possible.

#### **Modifiability :**

- As the system is made using an OO development approach it will be made component by component so that each component can be modified accordingly.

E.g.: The price of a certain advertisement could be changed accordingly after some time

- New components and functionalities can be added as future enhancements later.

E.g.: Leaderboard generation based on the performance of the hired persons and the service providers.

Badge generation is based on the category and the performance of the hired persons and the service providers.

Intelligence suggestions based on the previous searches.

- The system is made component by a component according to the MVC architecture.
- Maintain good documentation throughout the development life cycle.
- Use remote repositories to keep track of development.
- Follow coding standards and best practices. (Reliability of code blocks, Edit, adding new code blocks, adding comments)
- Organized folder structures.
- Use up to date technologies for development to improve the longevity of the system.

## Security:

- All user credentials from logins and registrations will be sent securely encrypted from the backend (Hashing mechanisms will be used).
- Sensitive fields, elements will be kept encrypted in the database (user logins, passwords).
- Only the admin and co-admin will be allowed all administrative roles such as access to user records and user information.
- Following are the only 3rd party modules used and reasons as to why:

- o PayHere: For online advance payment functionality
- o Nexmo: Text message notifications for reservations, password changes etc.

Both above modules are in correspondence to data security measures and details regarding them are available in the references.

**Testability:**

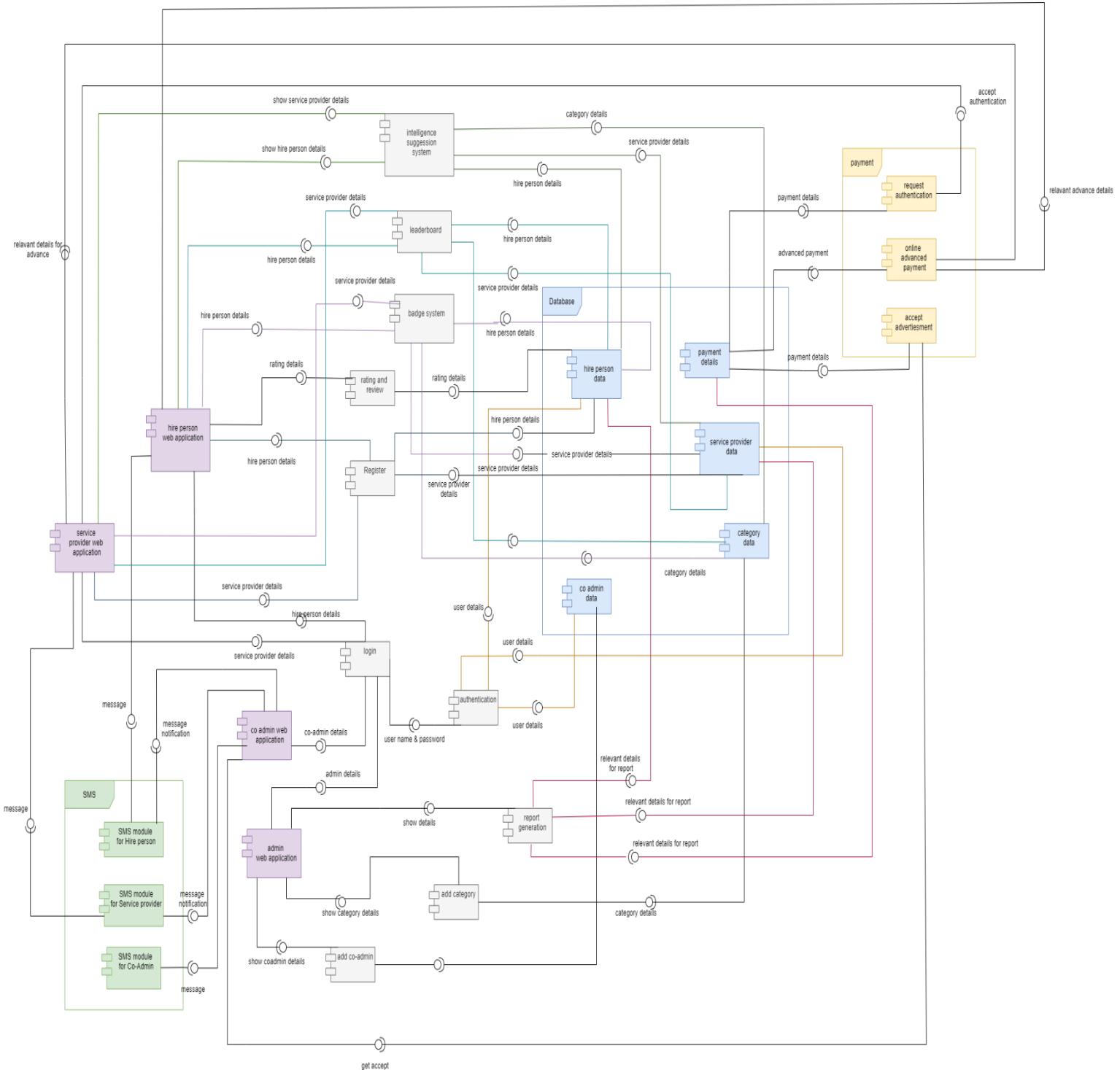
- In case of system failures, error detection and debugging will be easier due to modularity.

**Performance:**

The web application will follow the following standards to ensure performance.

- Develop the web application in a mobile-friendly manner using methods of developing responsive websites.
- Optimizing image size used in the web application.
- Using web caching mechanism
- Trying to reduce the number of HTTP requests as much as possible.
- Using native PHP functions as much as possible
- Optimizing the SQL database with normalisation

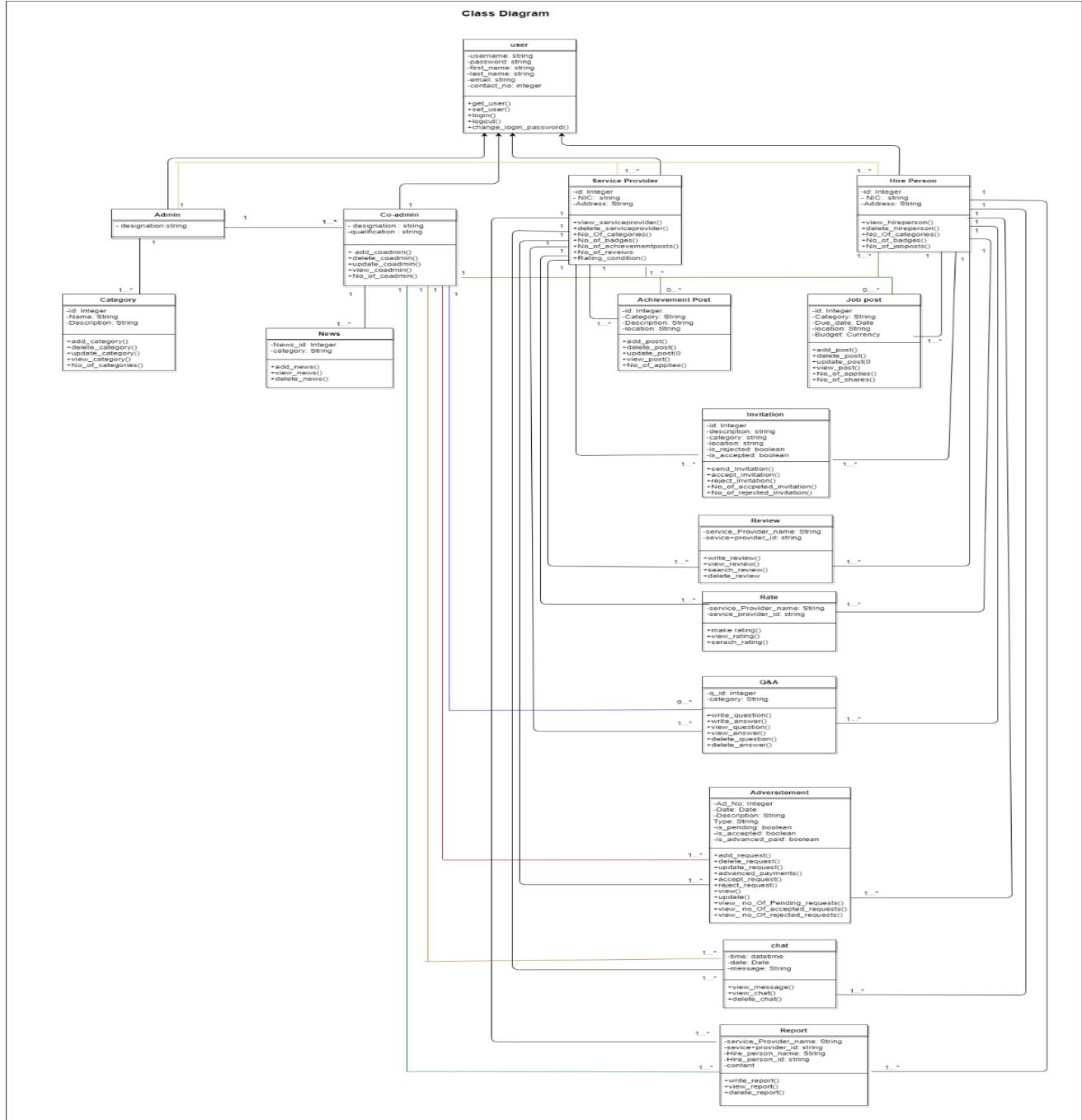
## 4) Proposed System Architecture



<https://app.diagrams.net/#G1USOLaRpCPolcn-YBK7kwUlINTOcNBhxT>

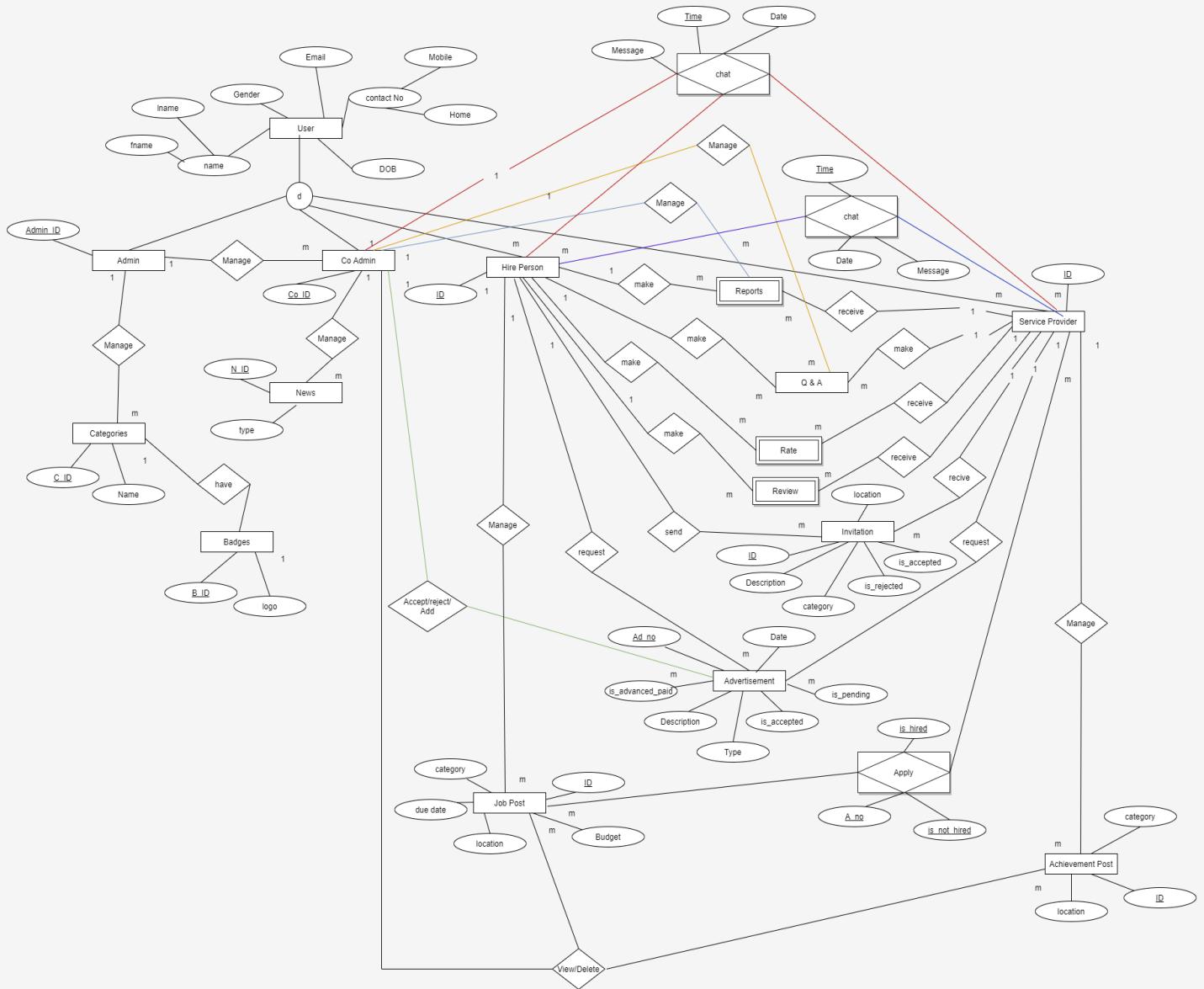
## 5) Design of the System

5.1) Class Diagram - <https://app.diagrams.net/#G1UQguIHQ-Fi6bs34BBeCEb1cFMk4-2il>



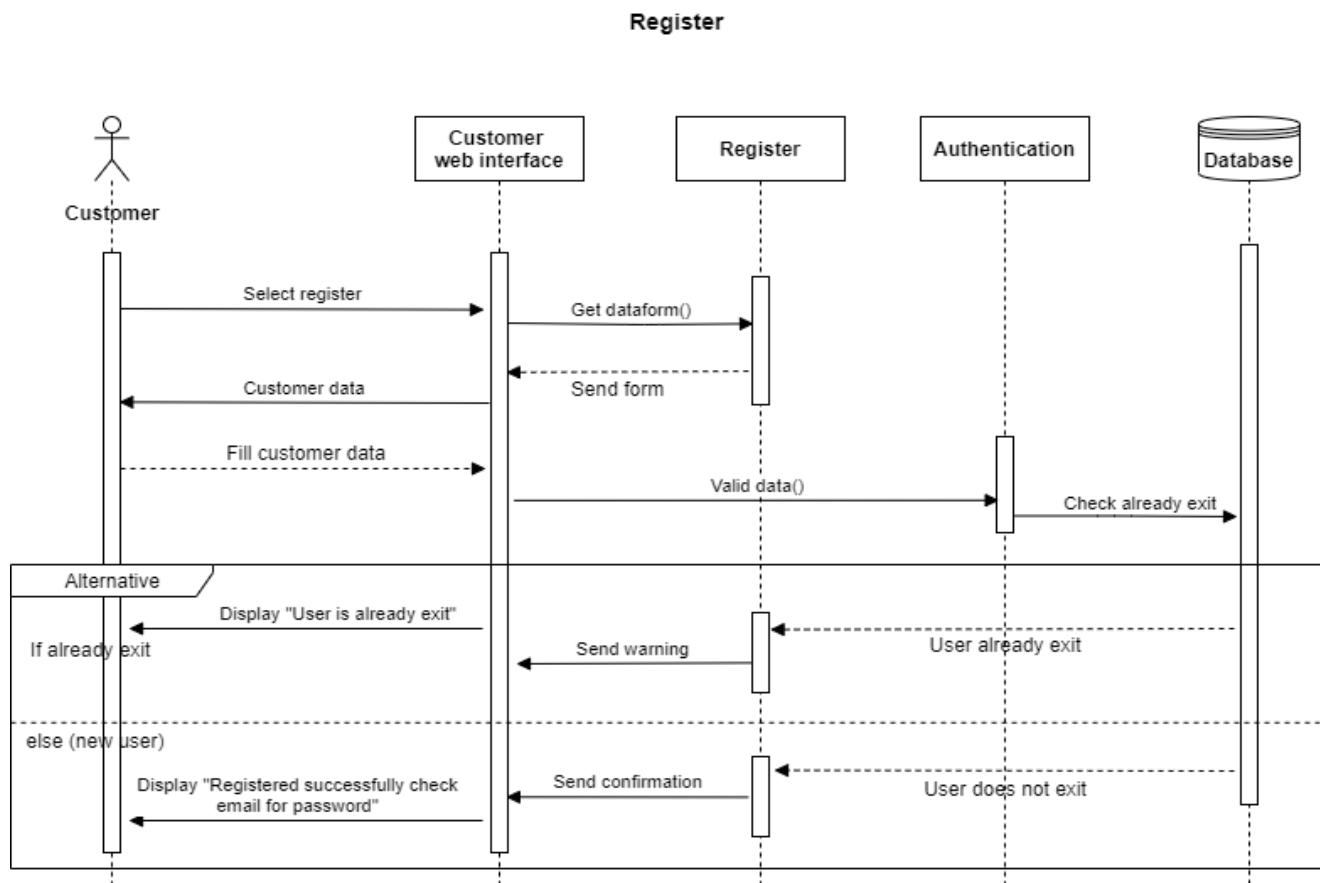
## 5.2) Entity-Relationship Diagrams

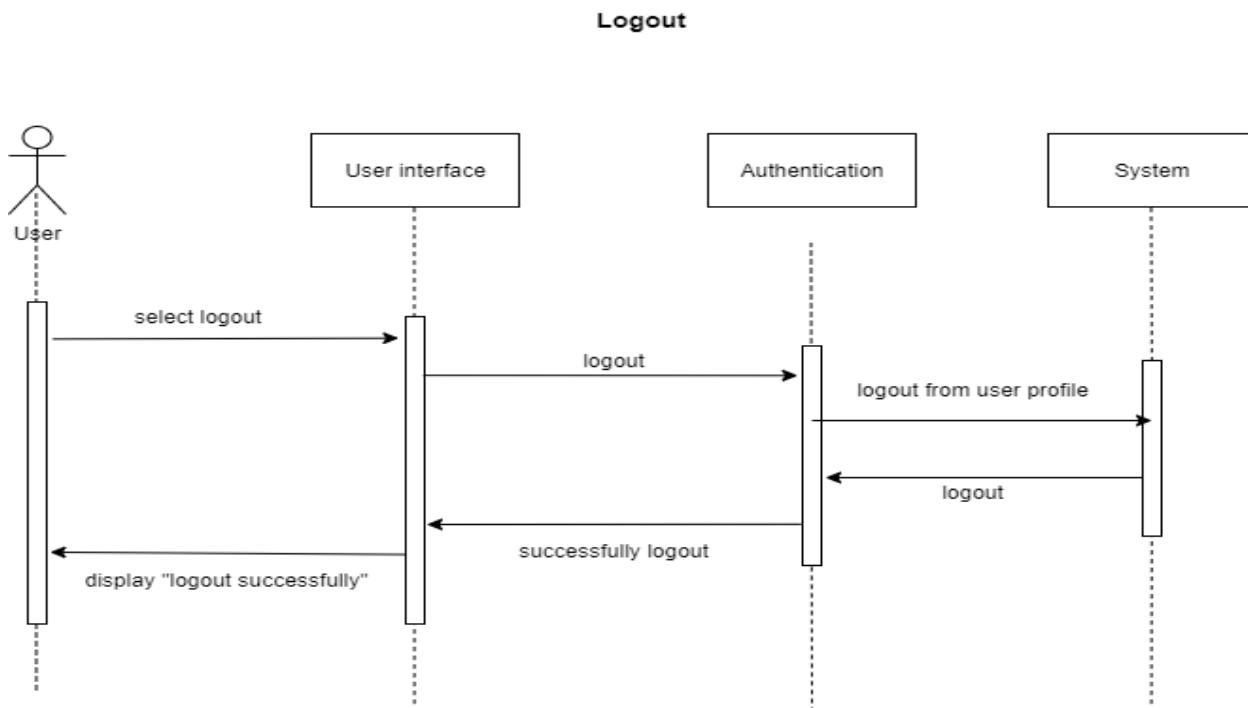
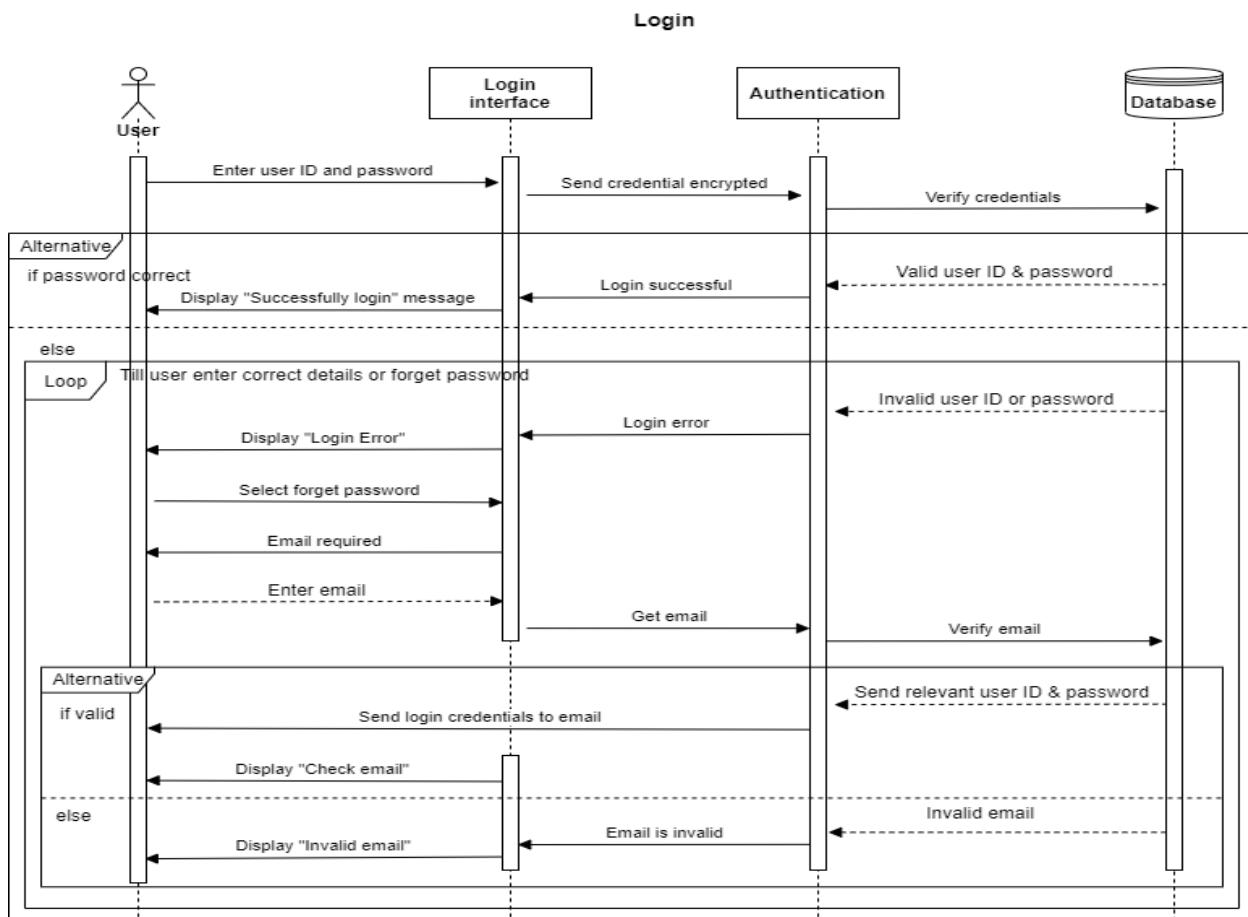
**ER Diagram**

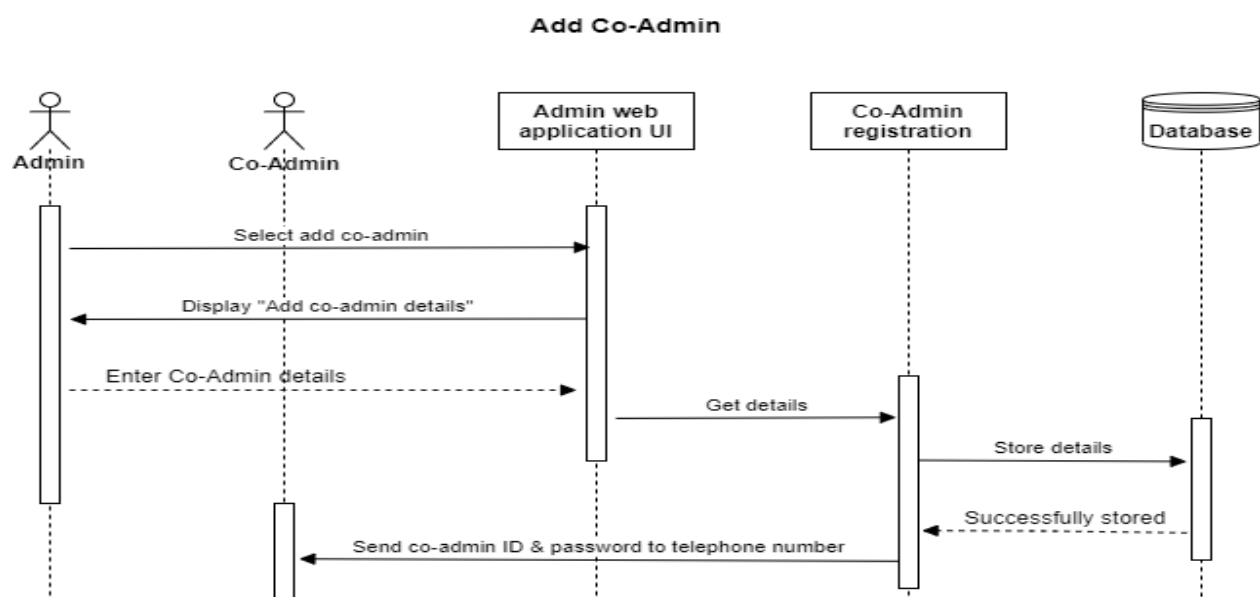
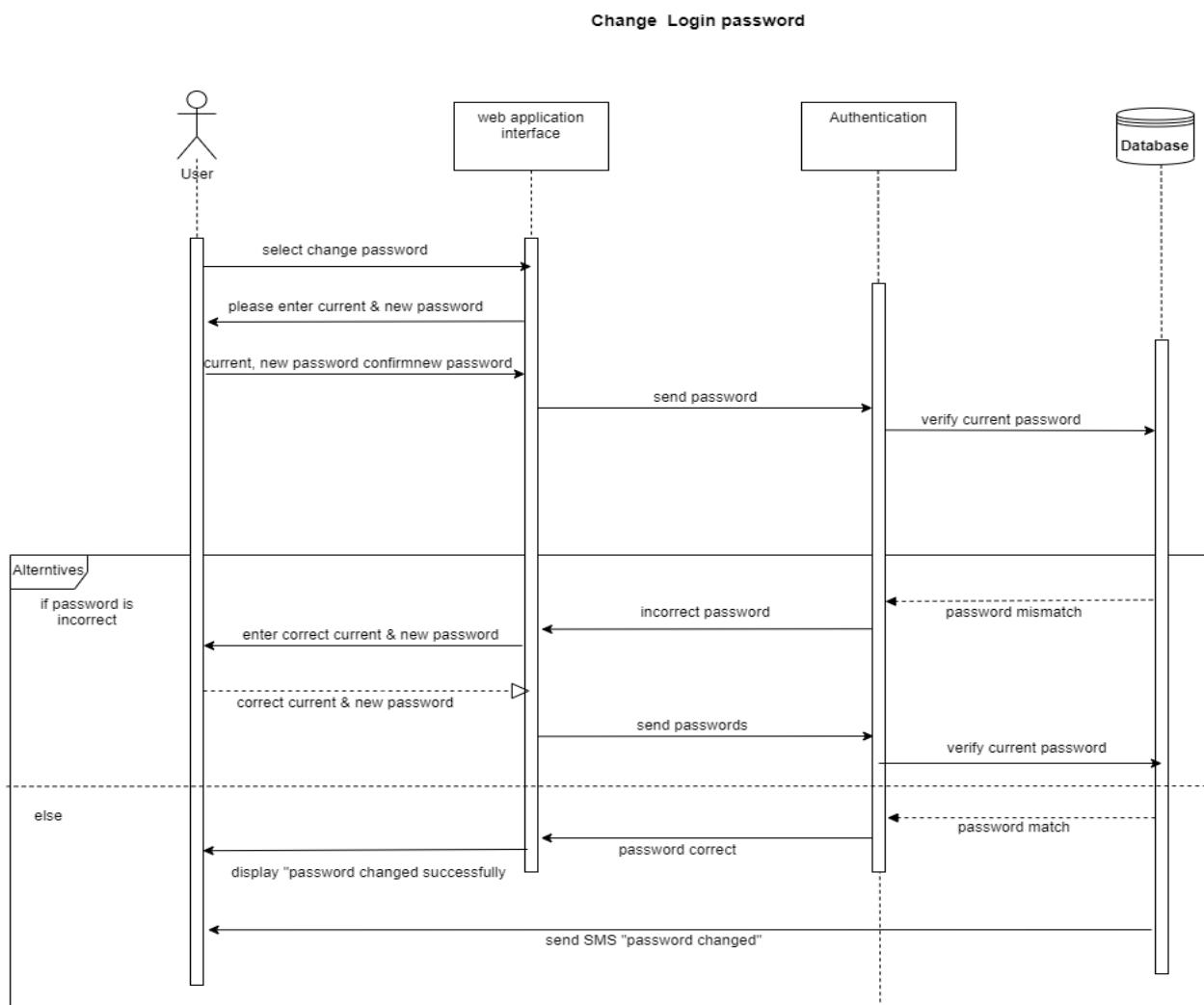


<https://app.diagrams.net/#G1ECQ-z1Mkc3j8Co1SgjUFHUZB1O7Uflz4>

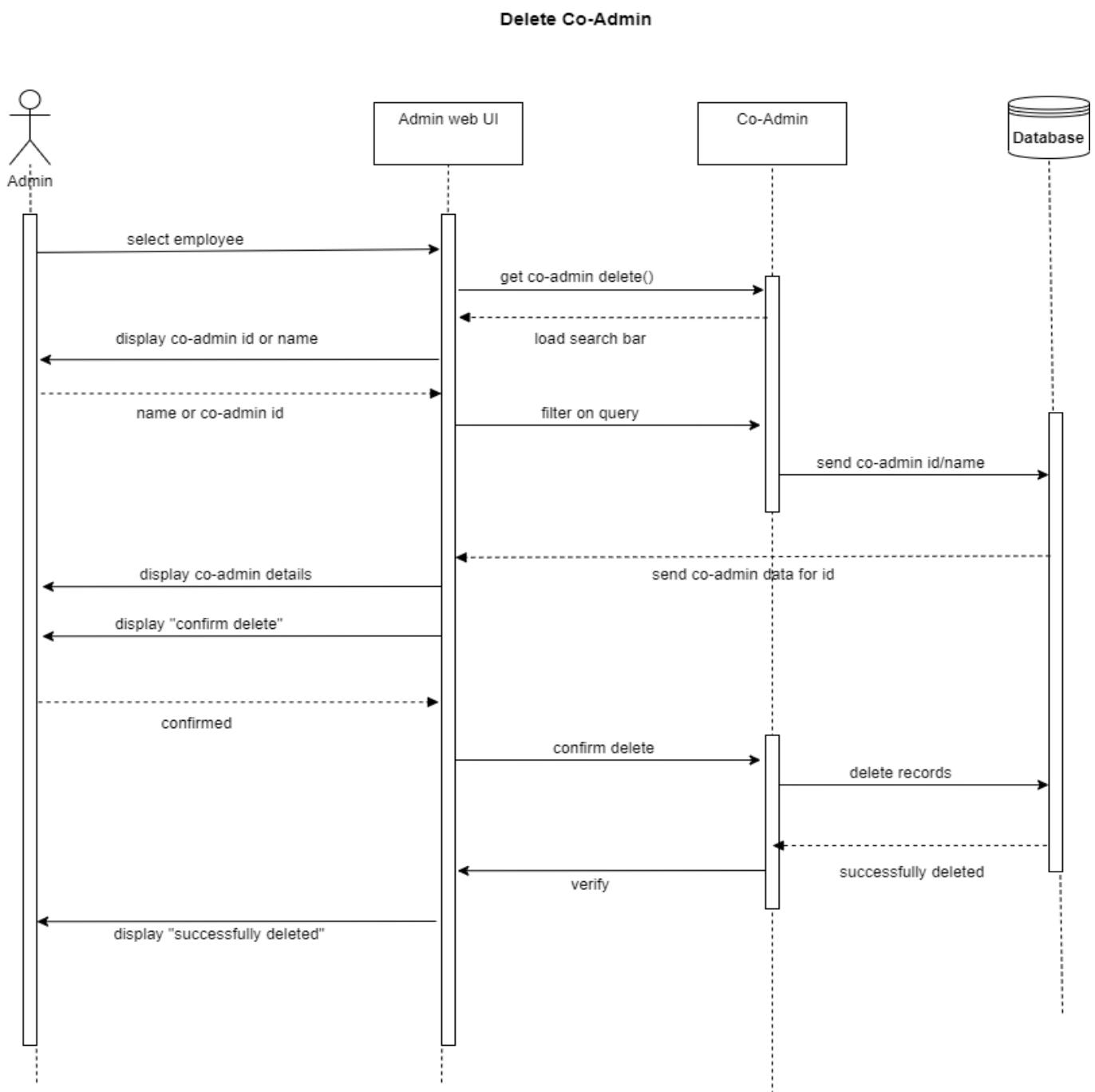
### 5.3) Sequence Diagrams

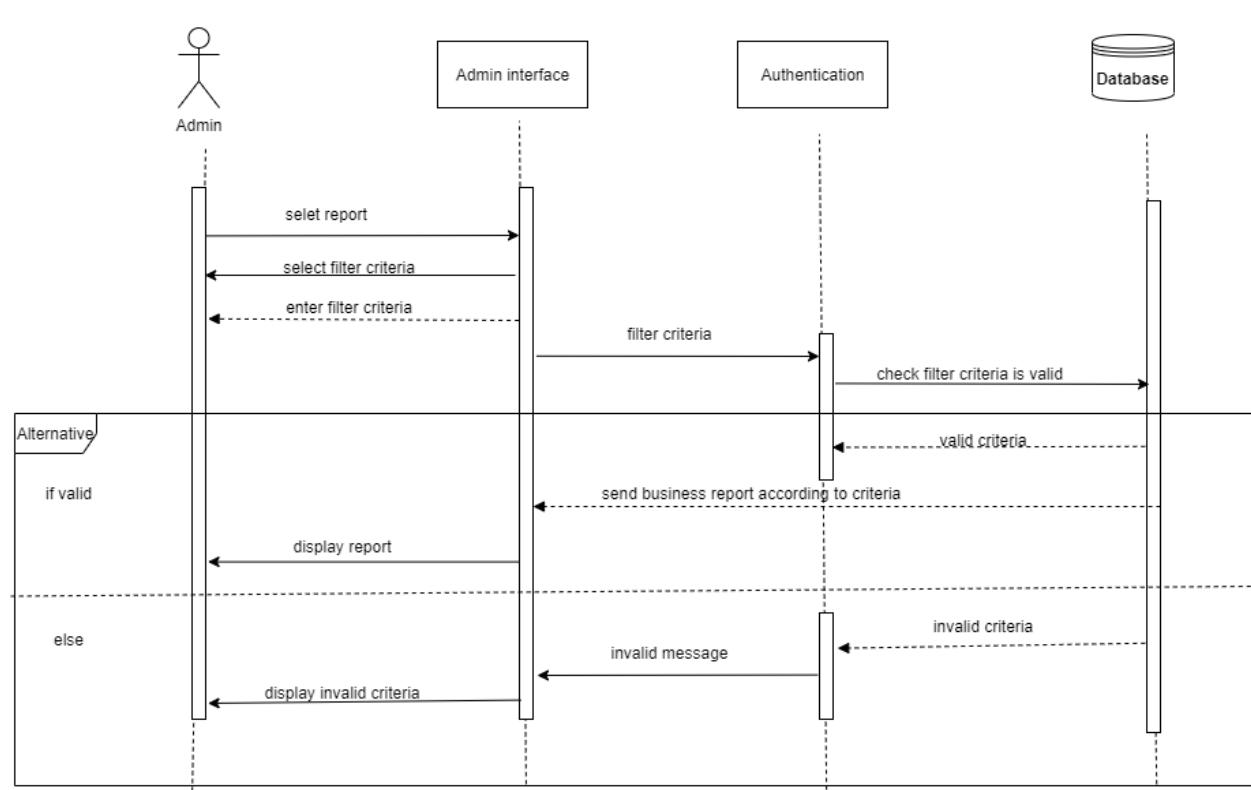
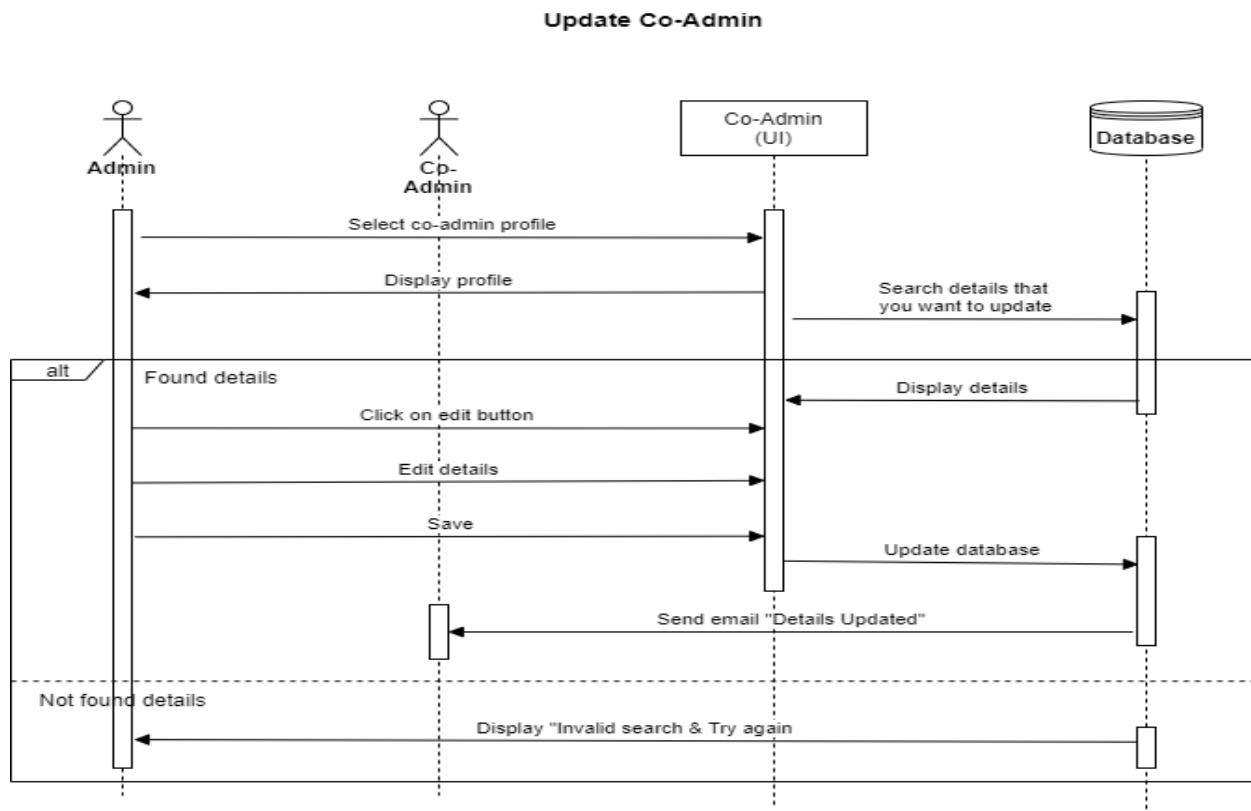


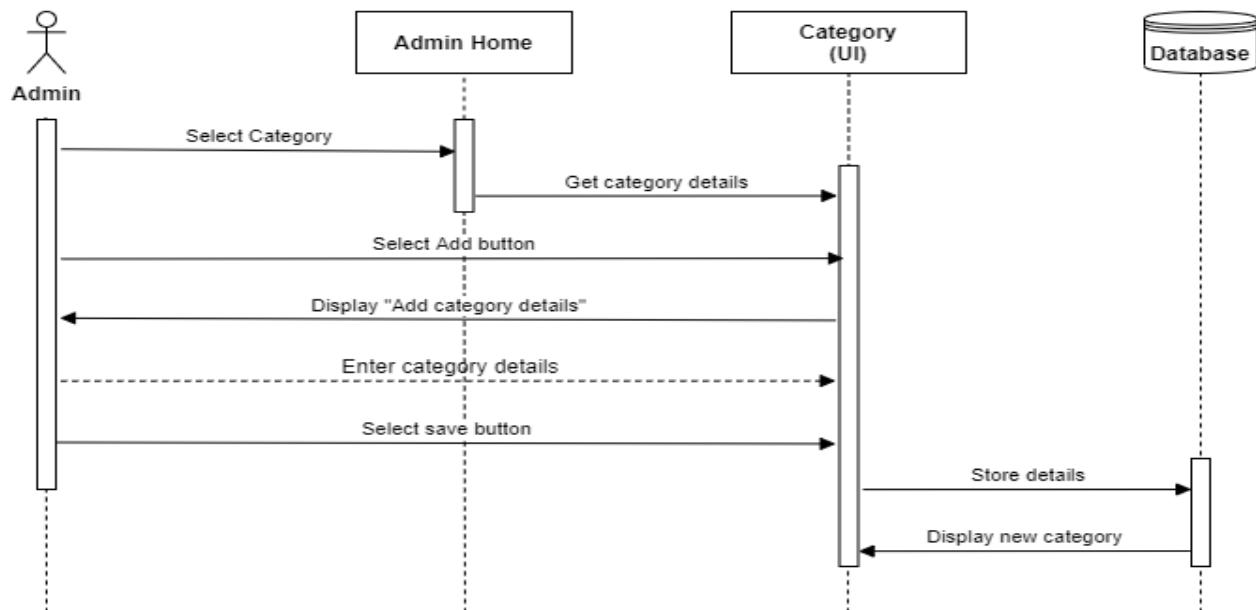
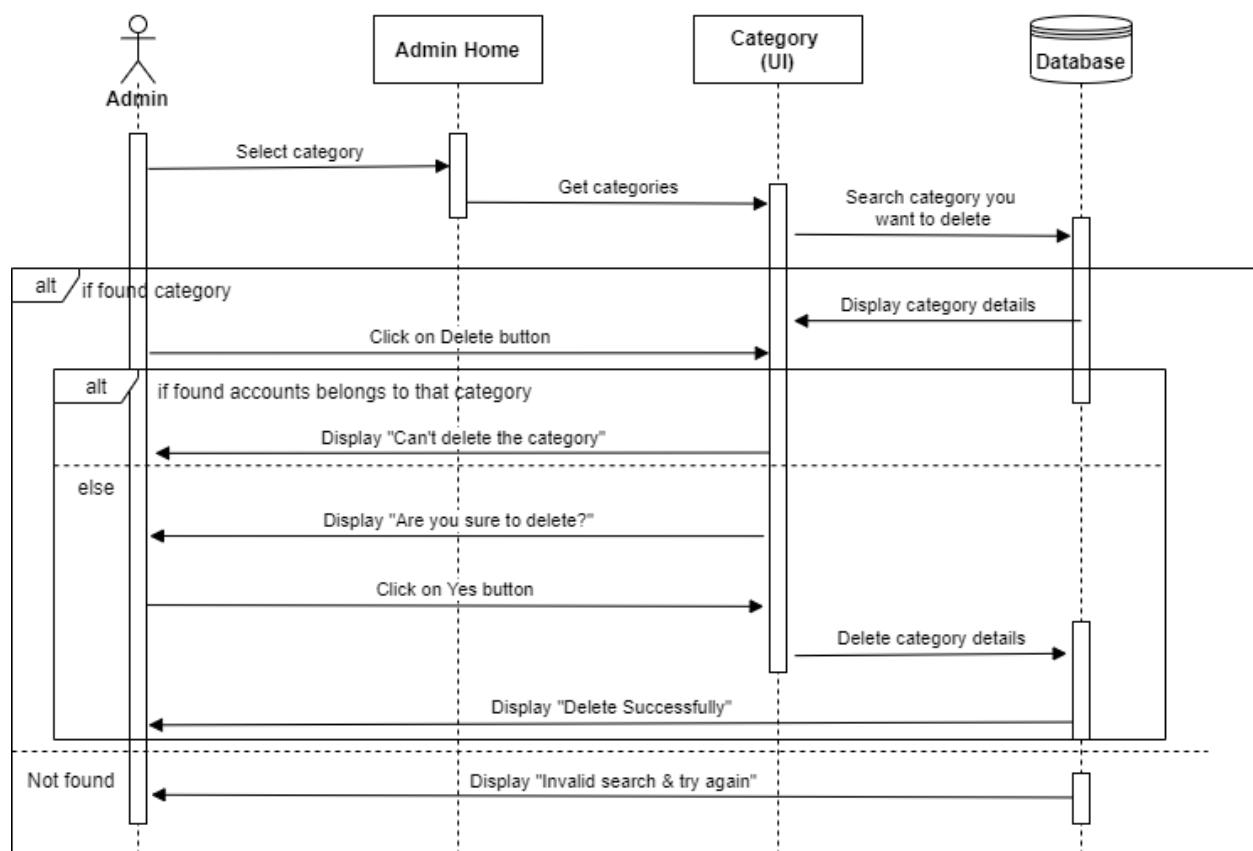


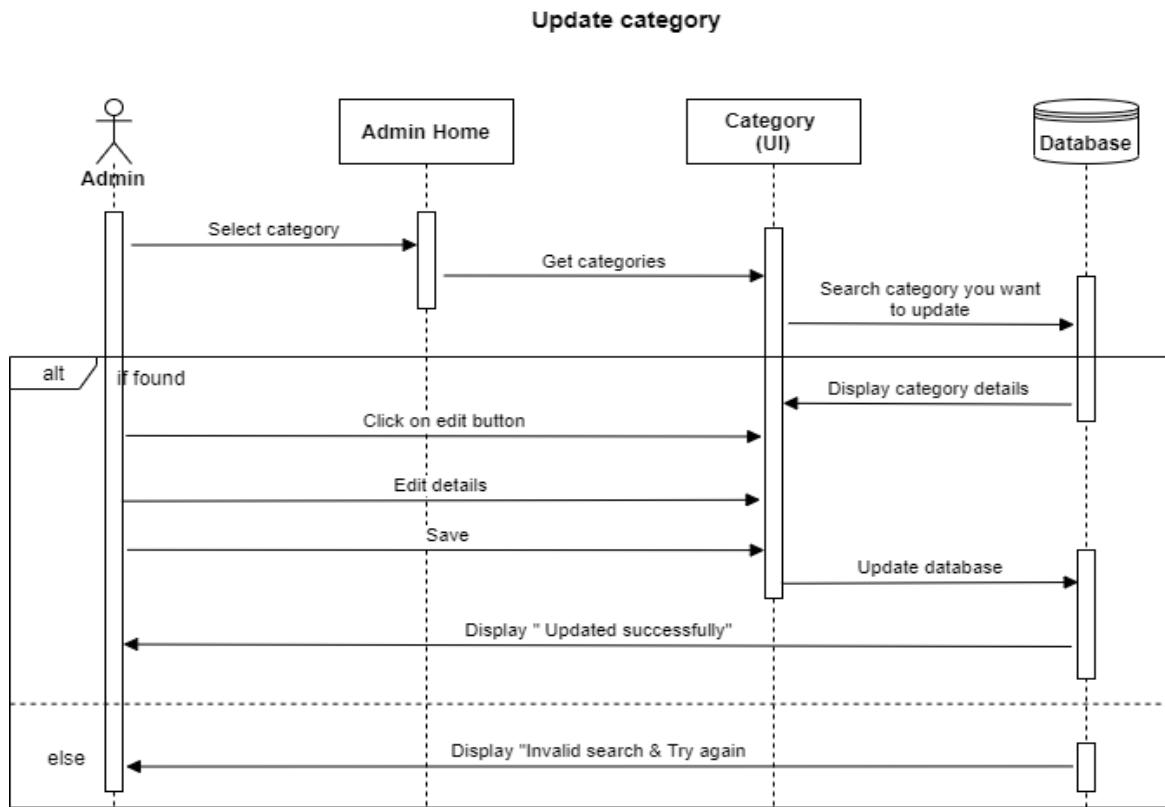




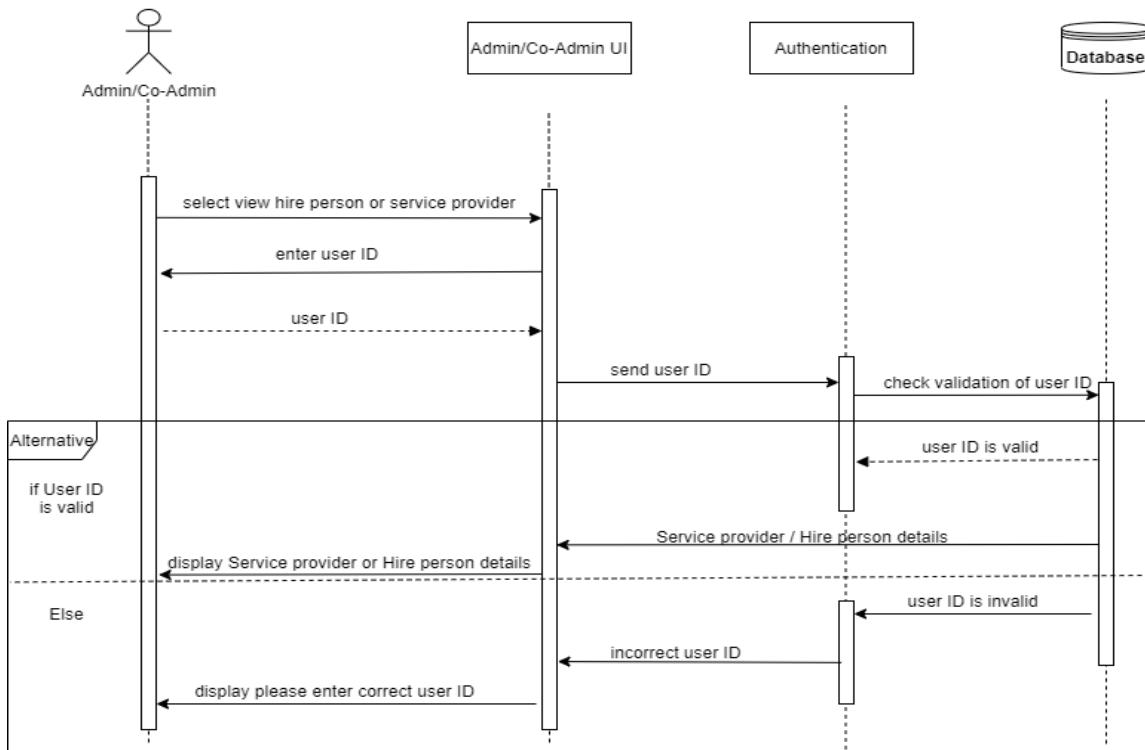




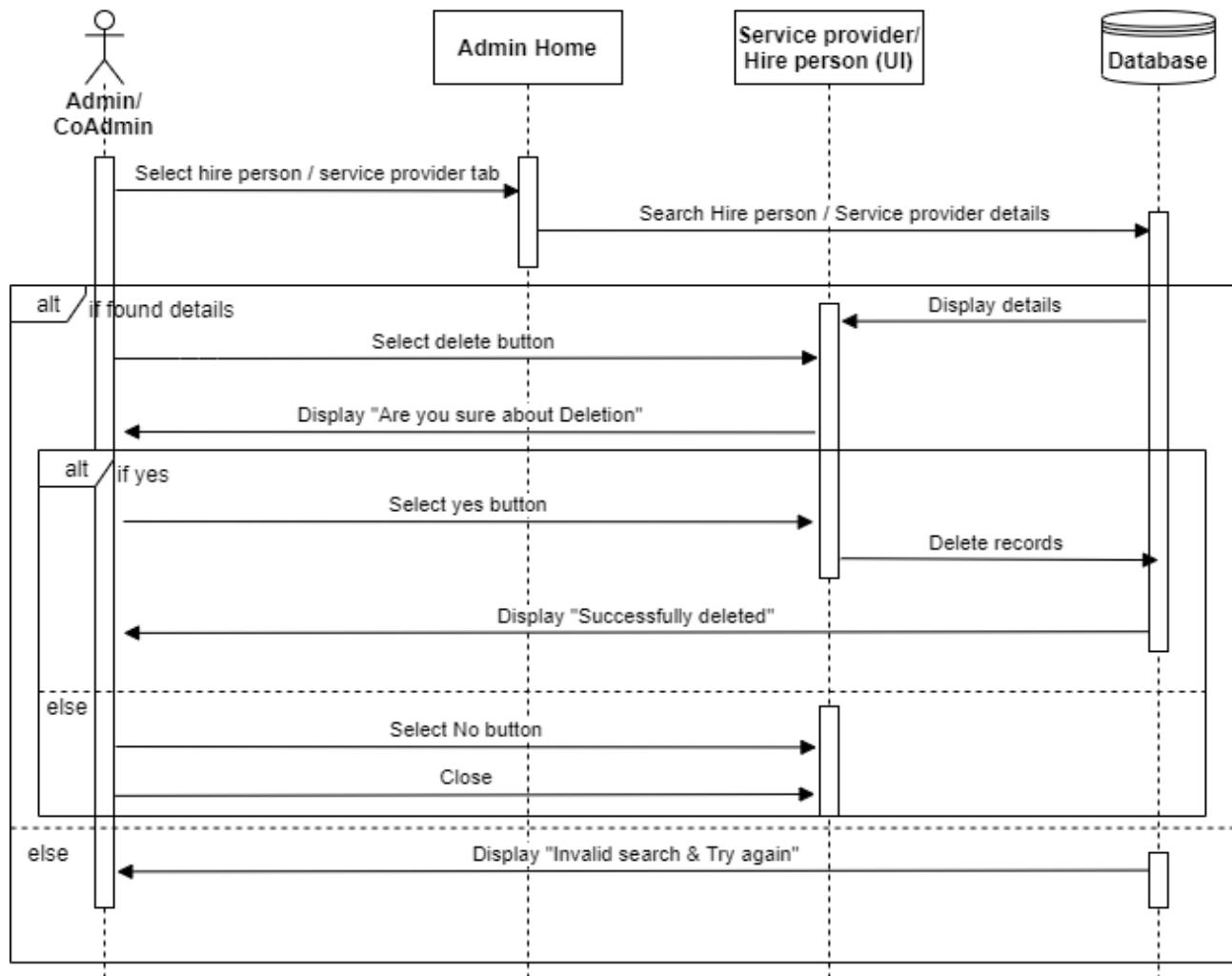
**Add category****Delete Category**

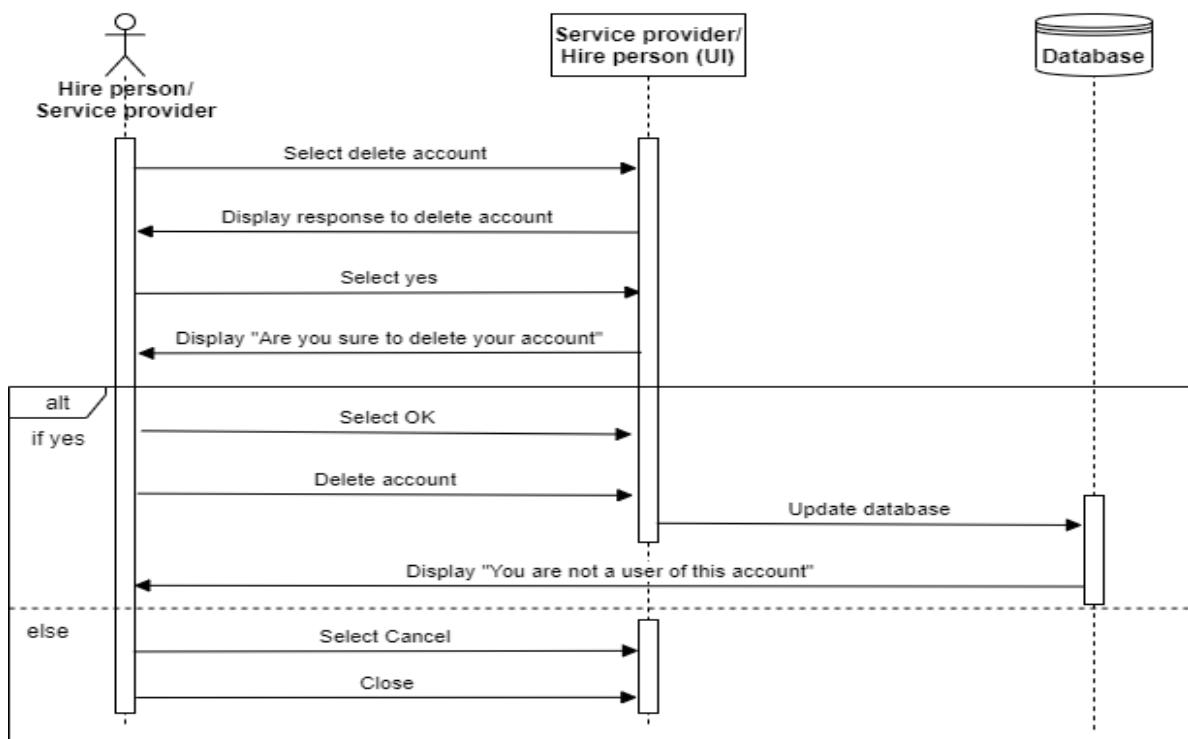
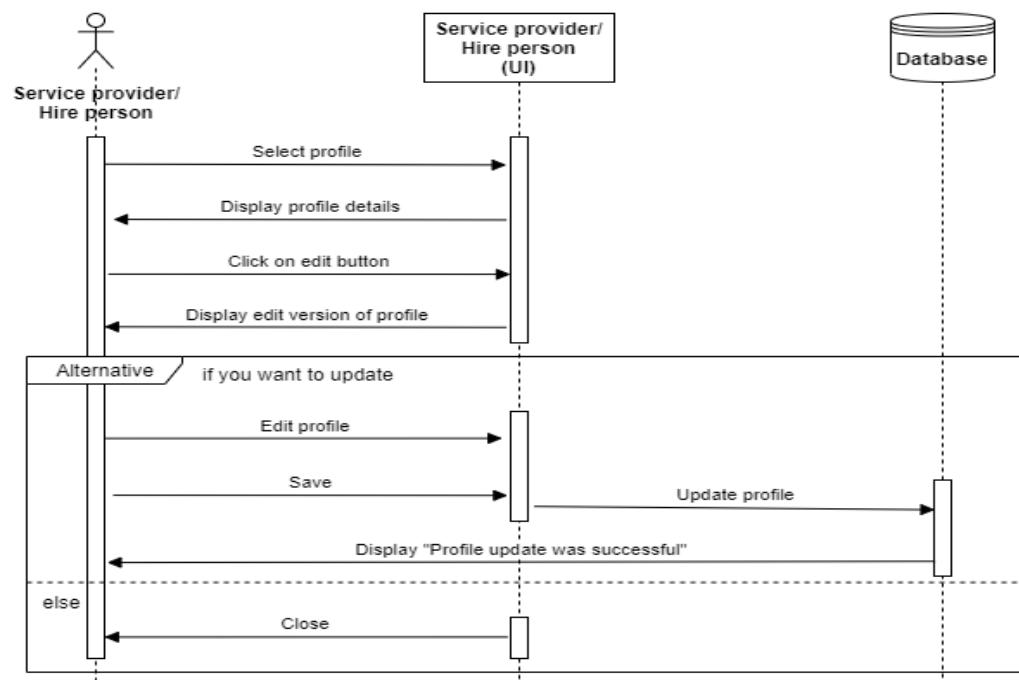


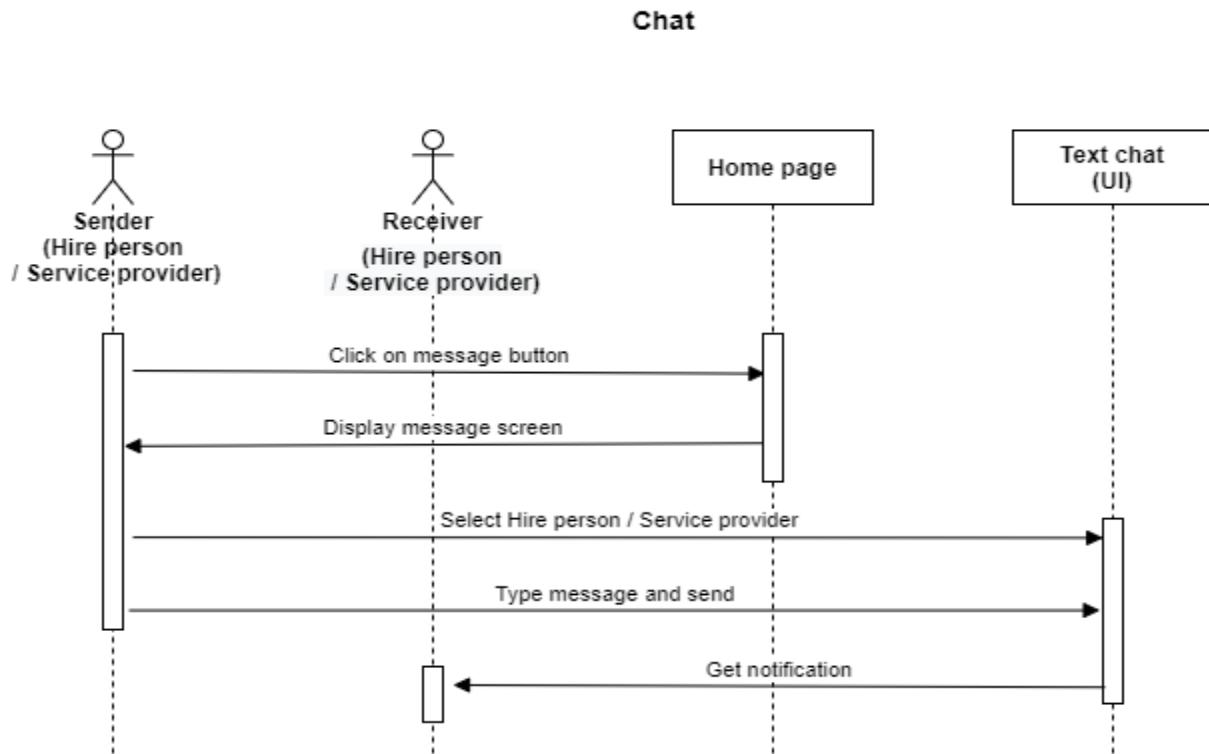
#### View service provider and Hire person details - Admin / Co-admin



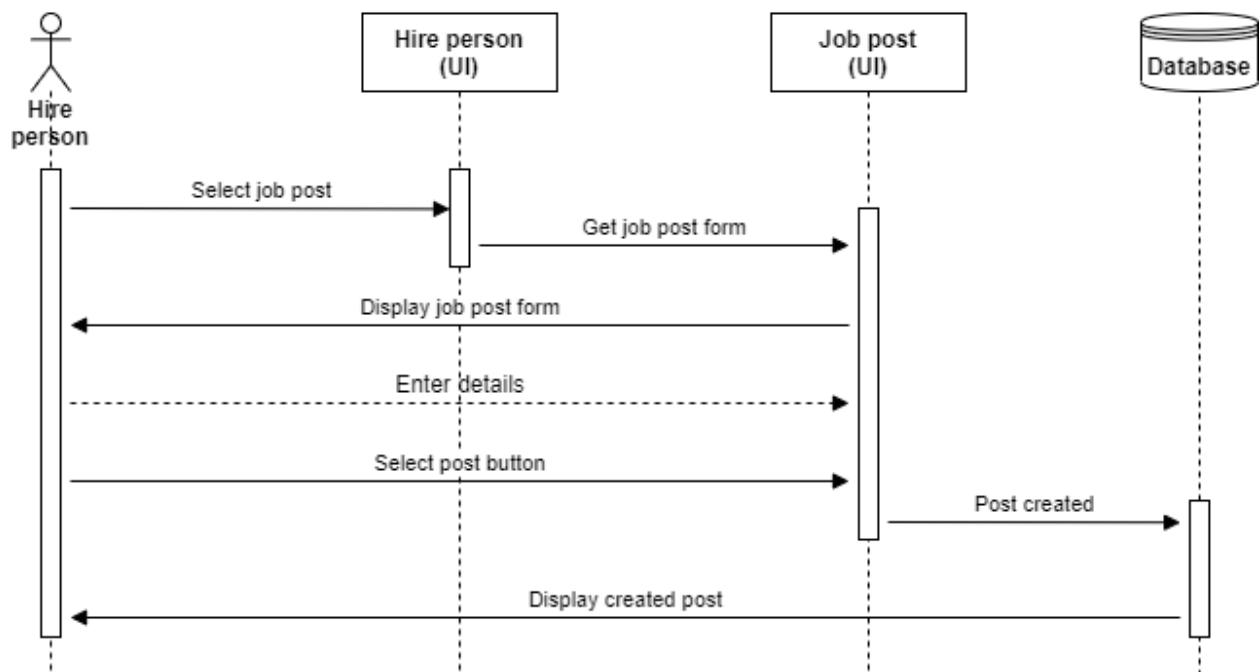
### Delete Hire person / service provider

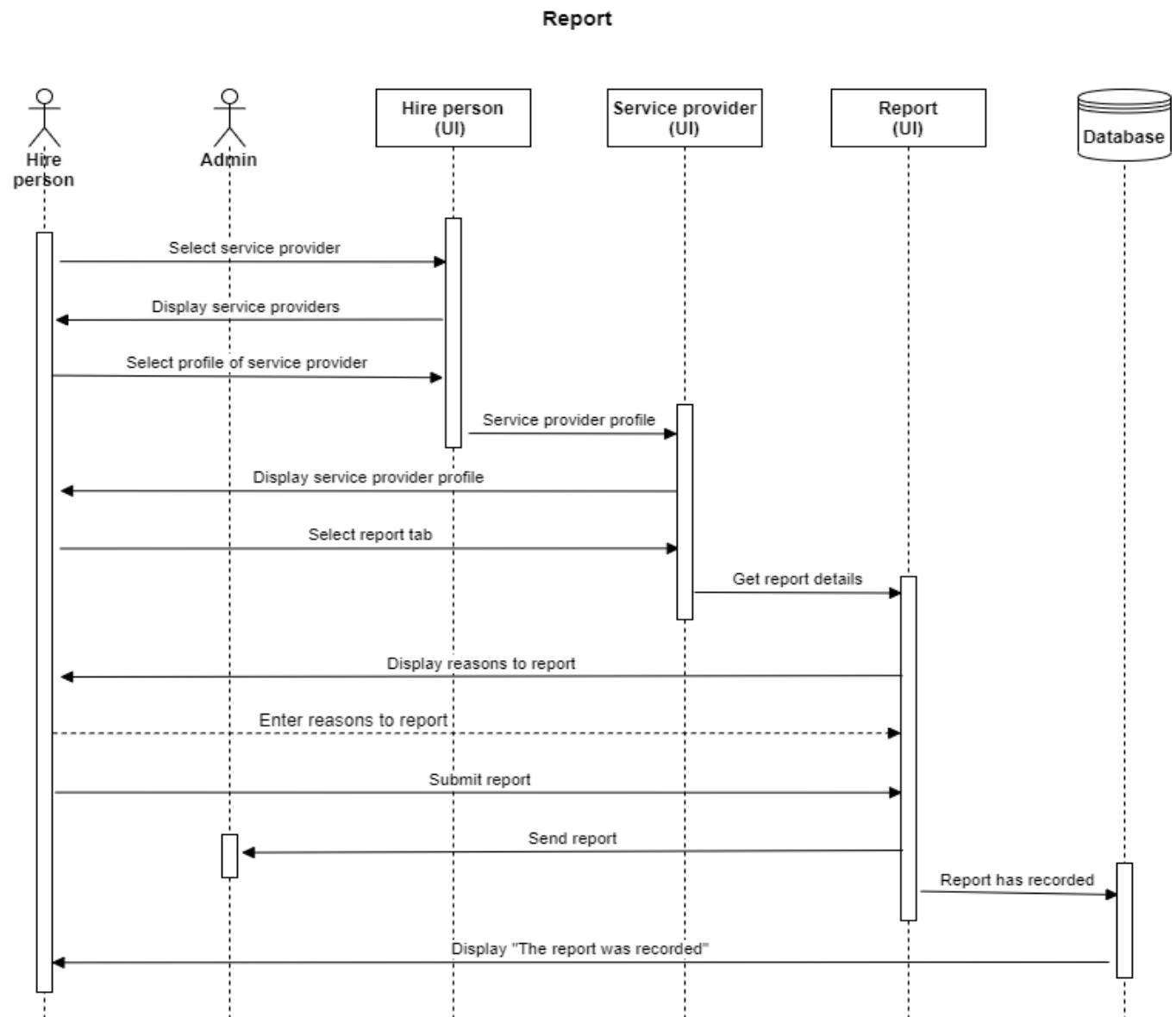


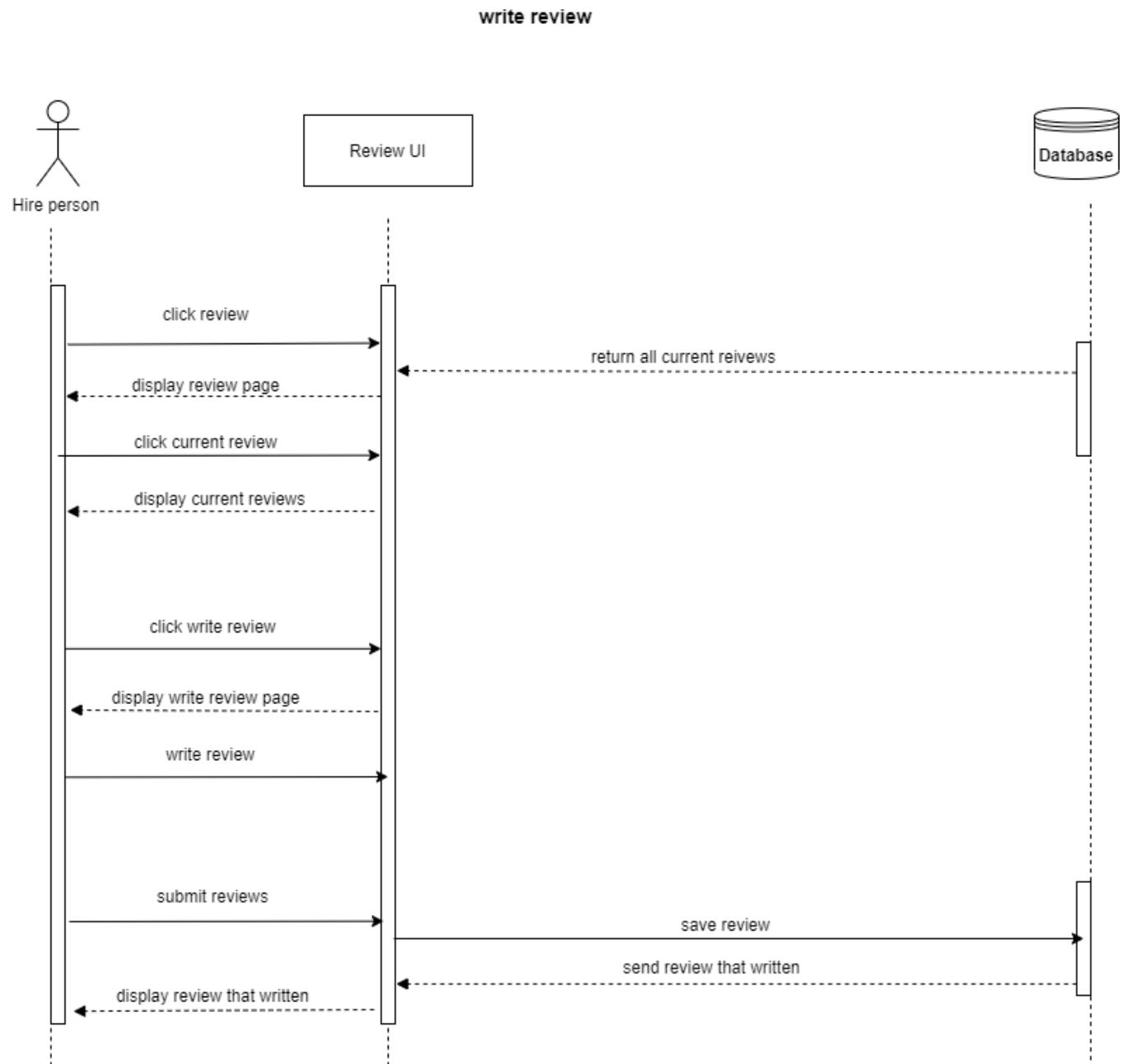
**Deactivate the account - Hire person / Service provider****Update profile - Service provider / Hire person**

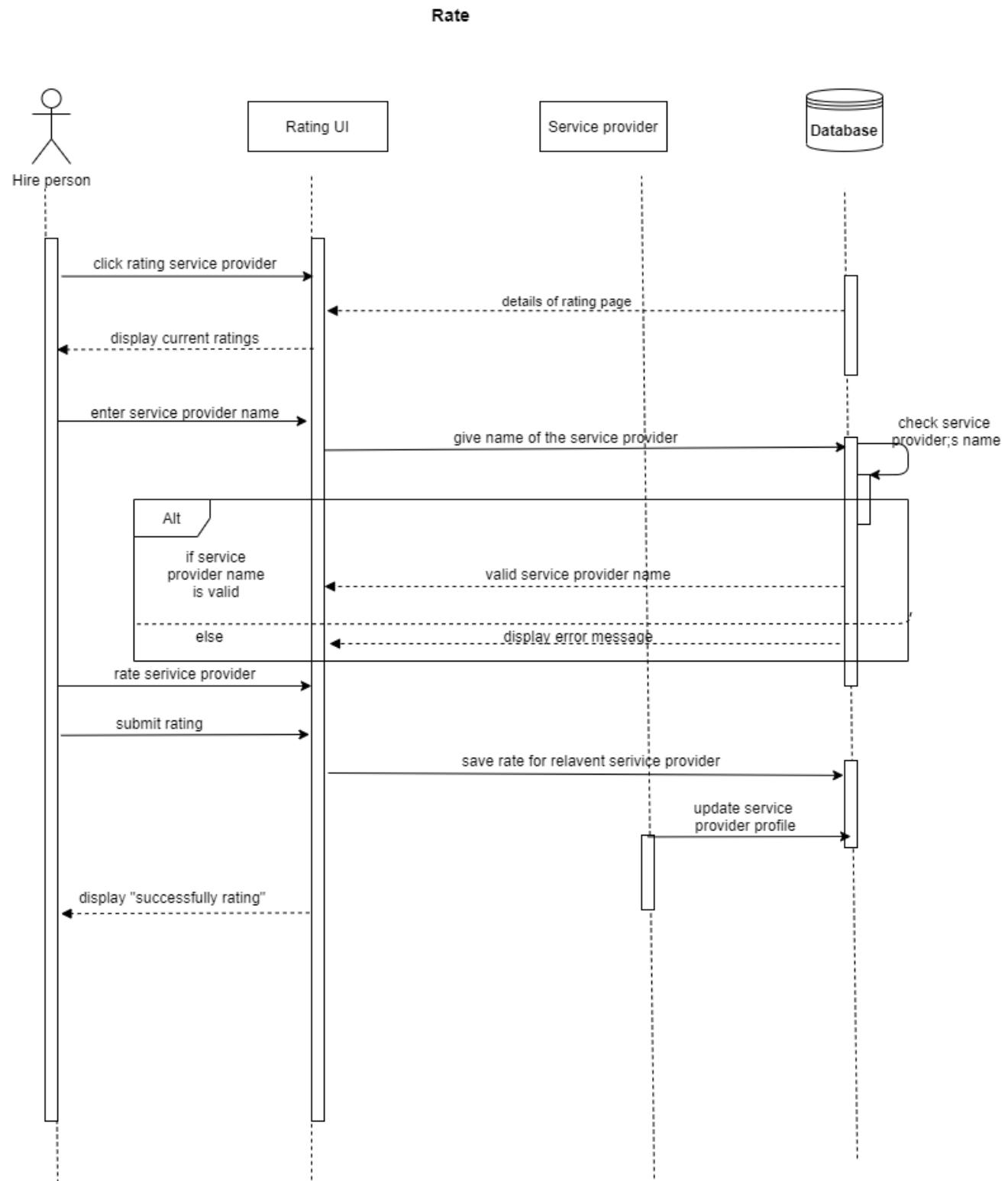


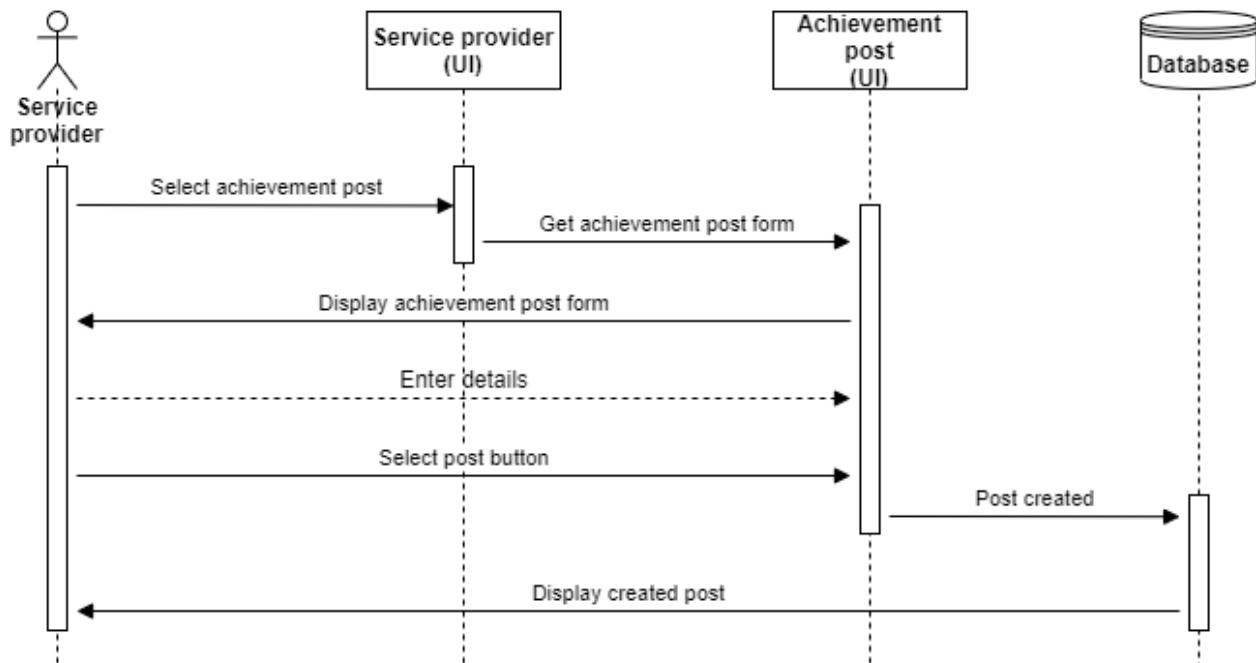
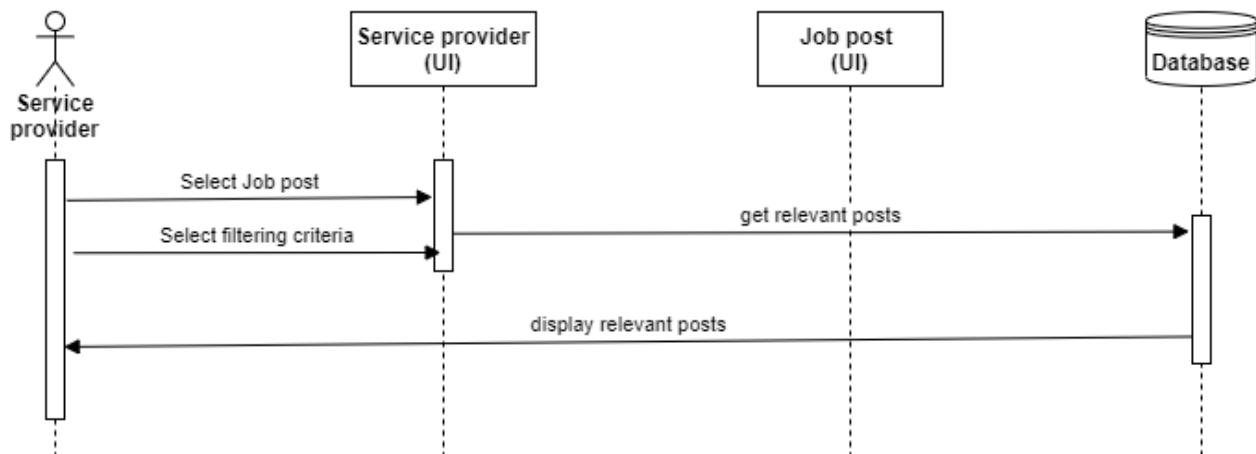
### Create Job Post - Hire person

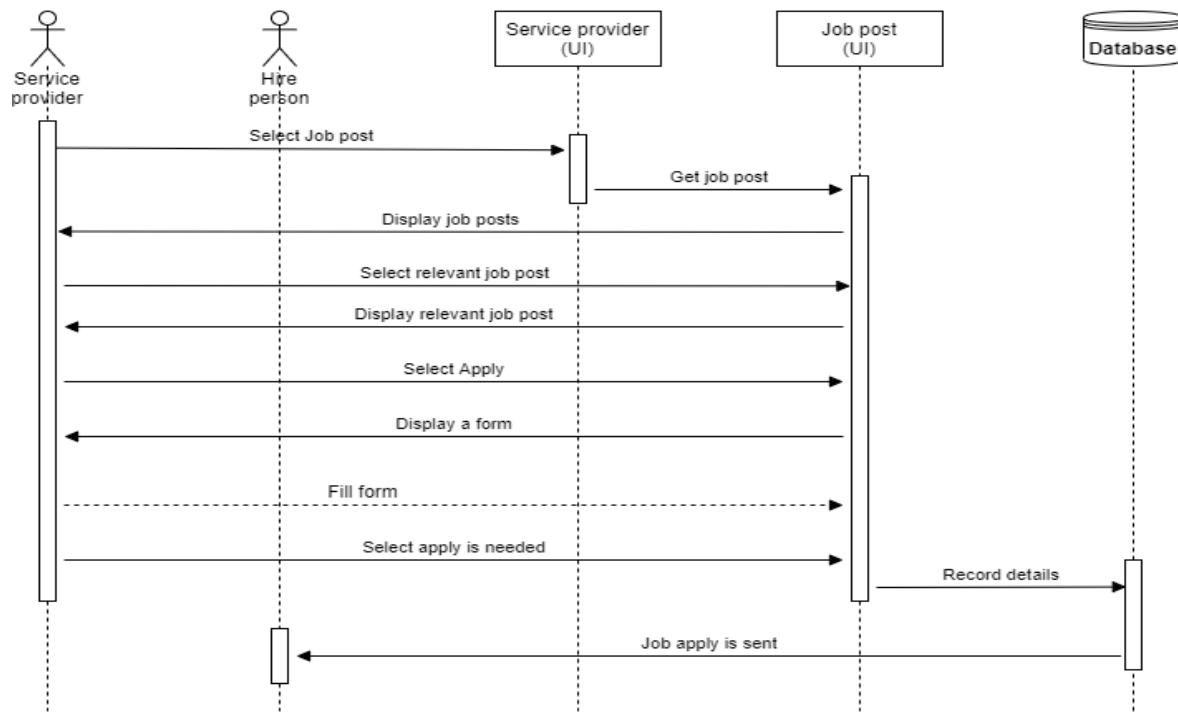
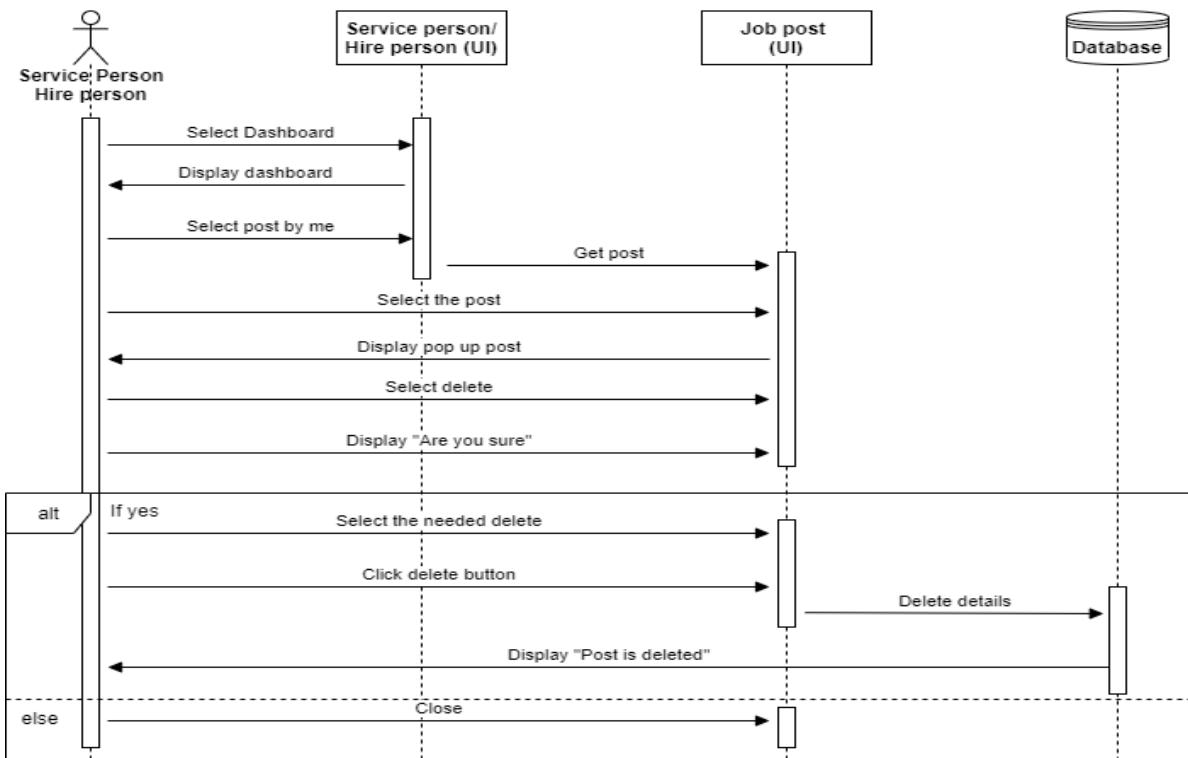


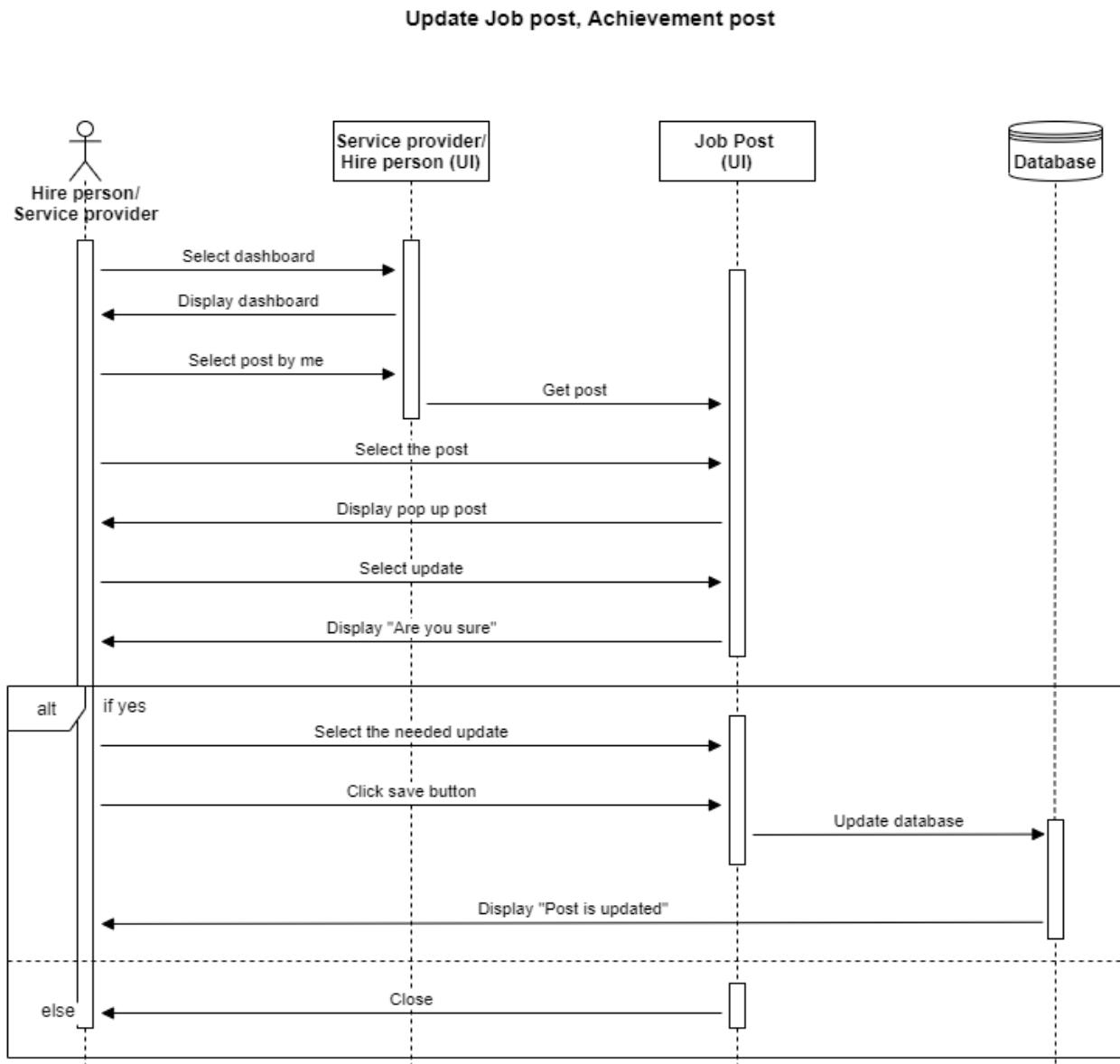


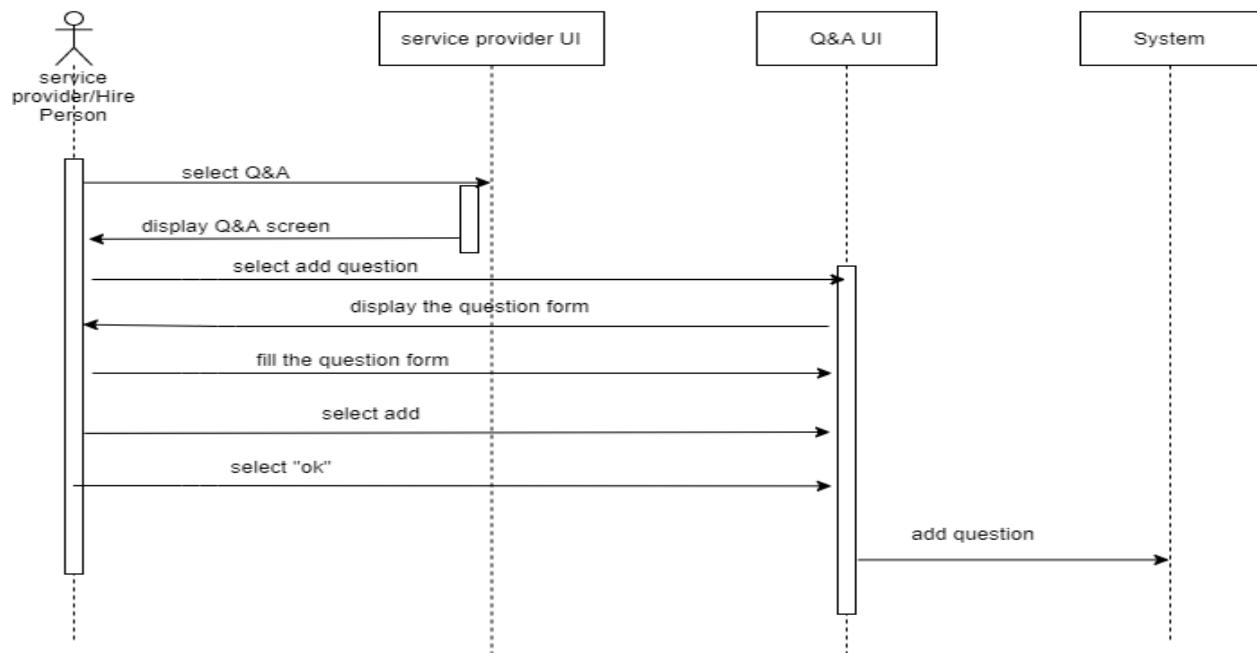
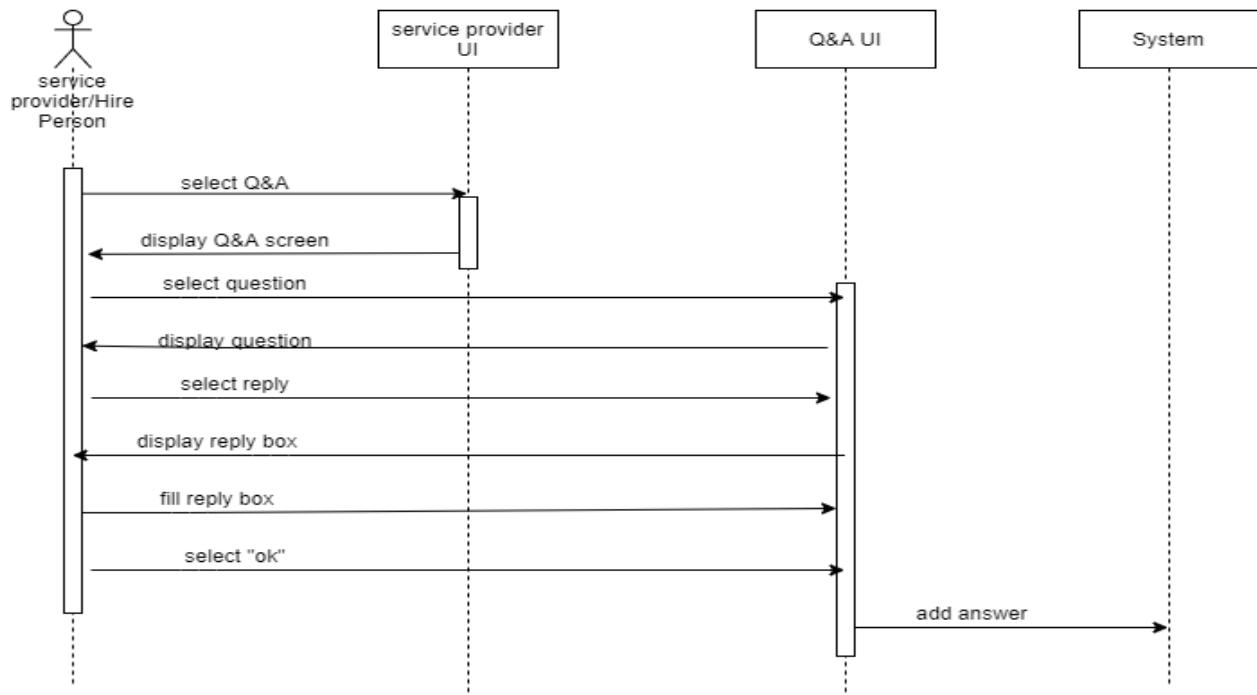


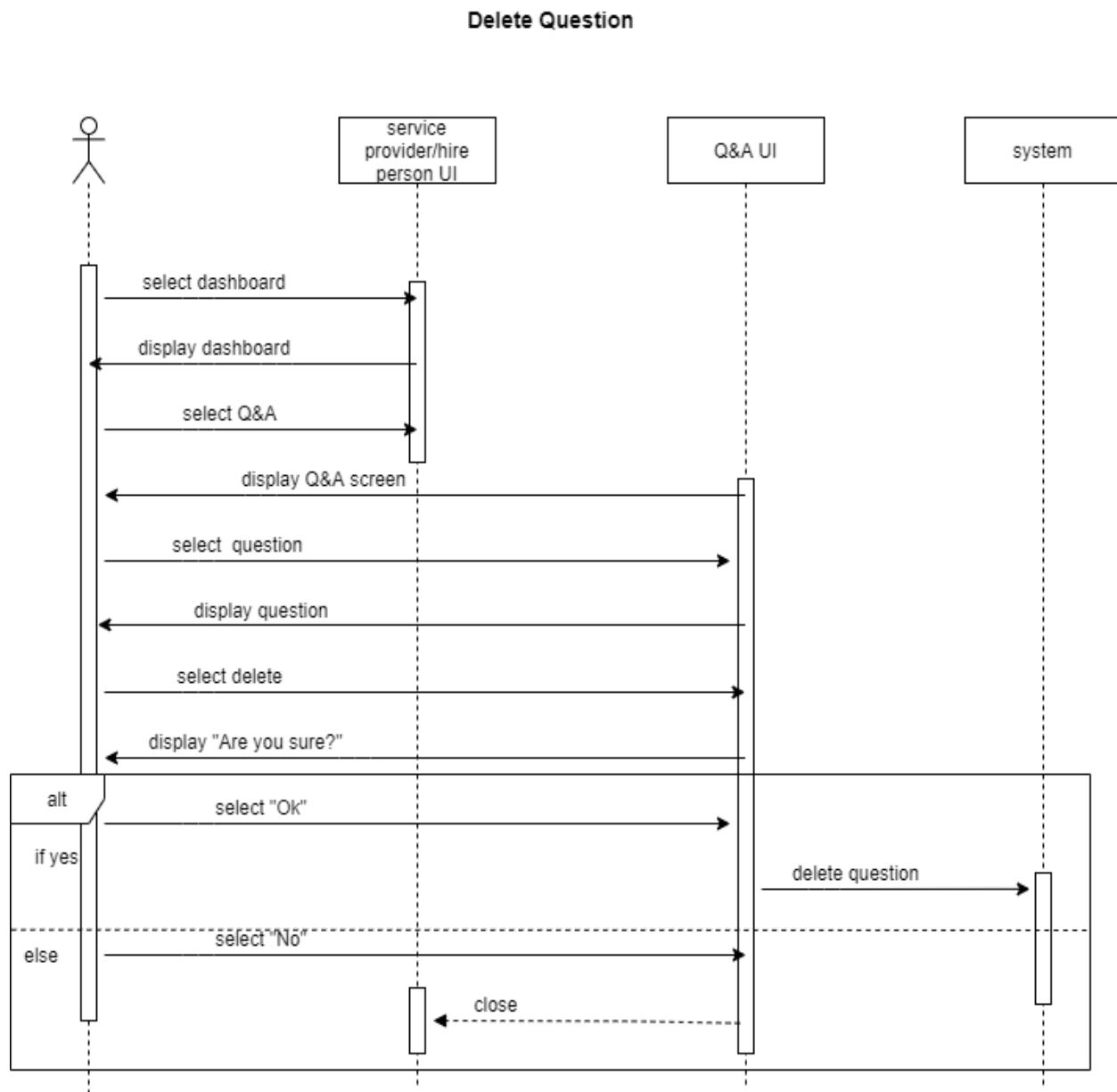


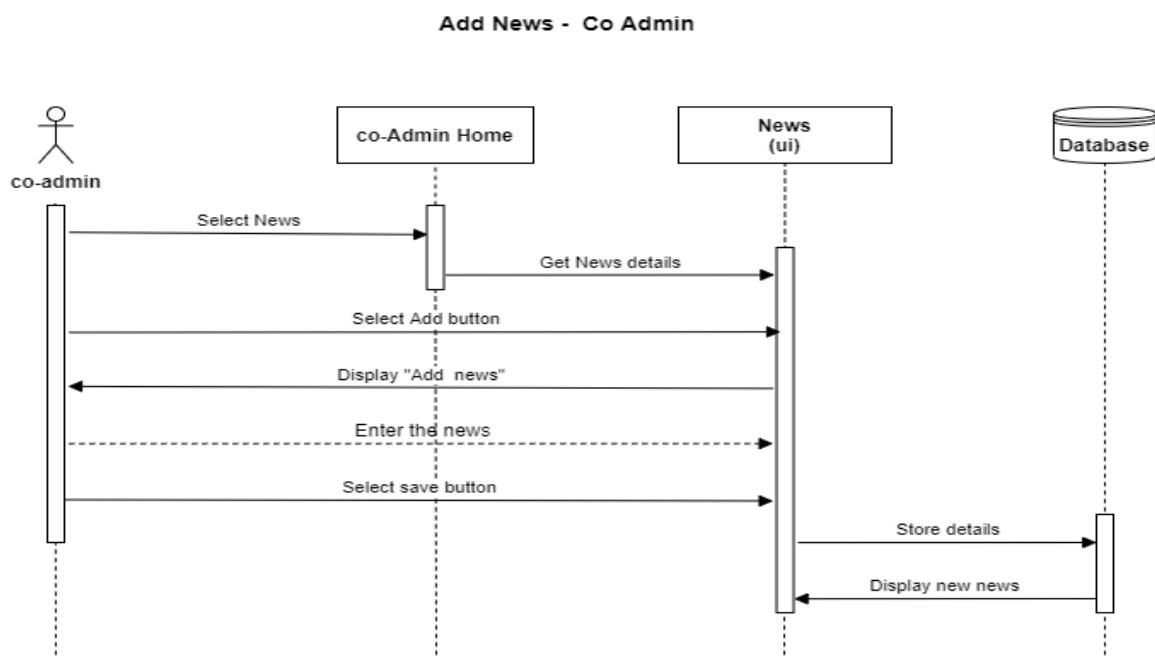
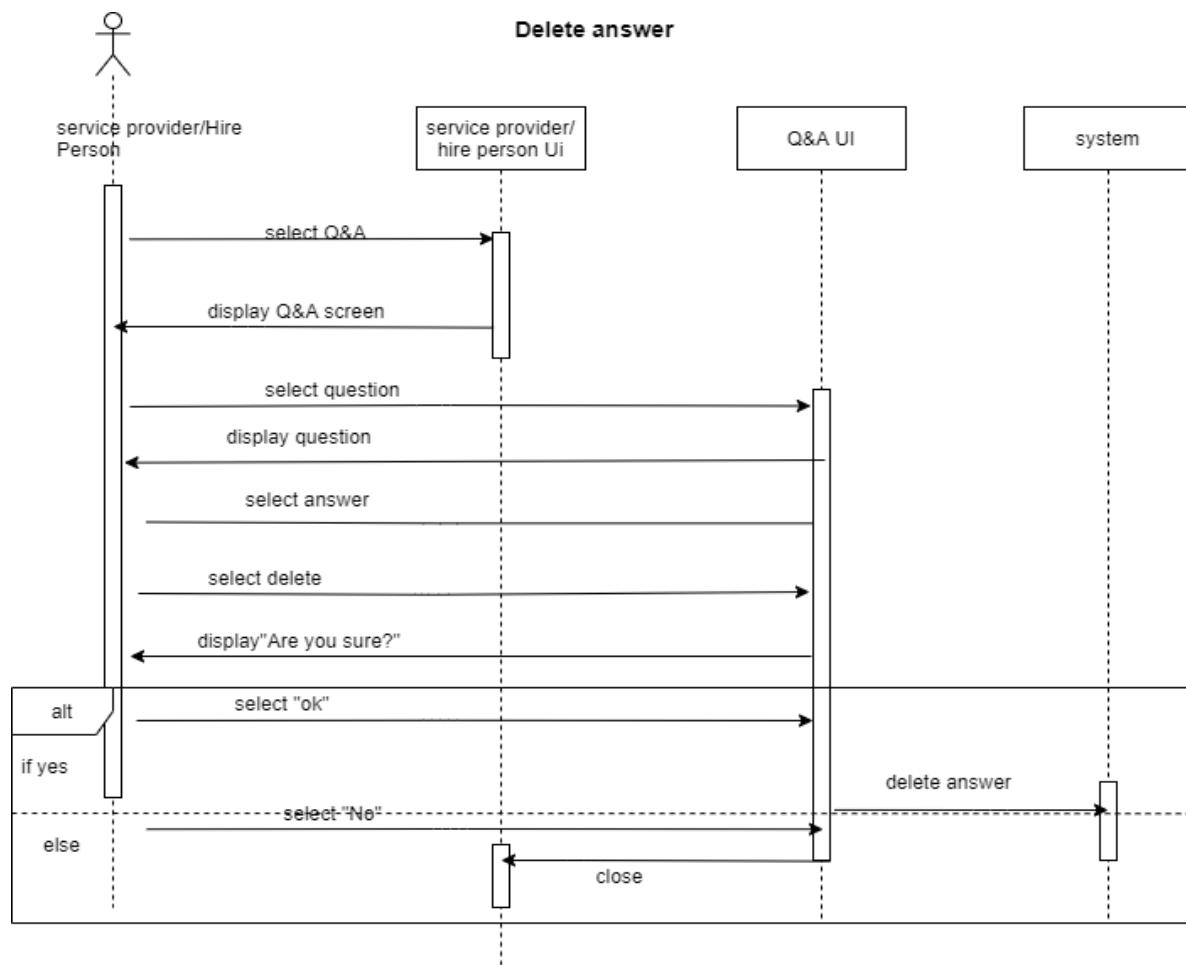
**Create achievement post - service provider****View Job post - Service provider**

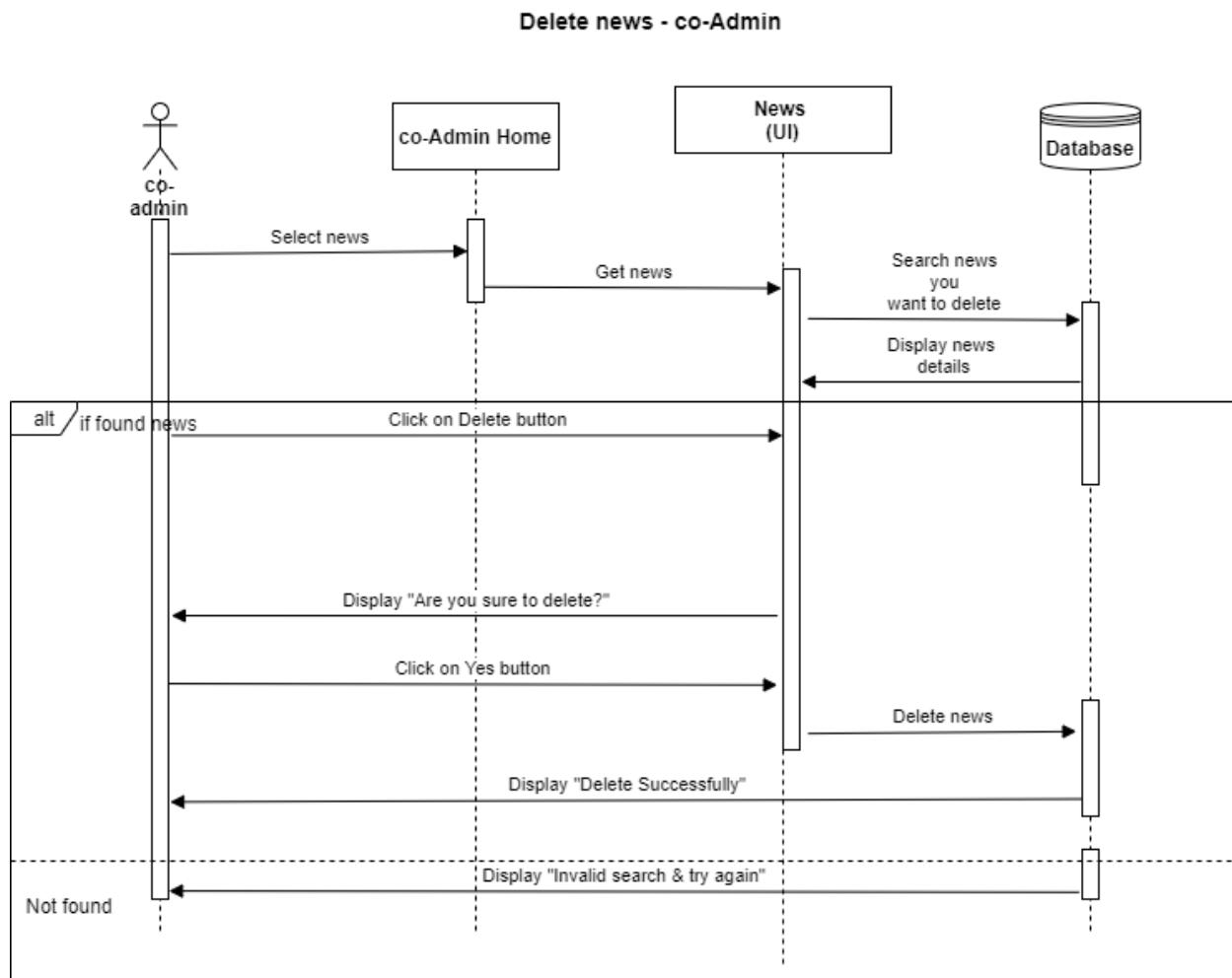
**Apply for Job post - Service provider****Delete Job post, Achievement post**

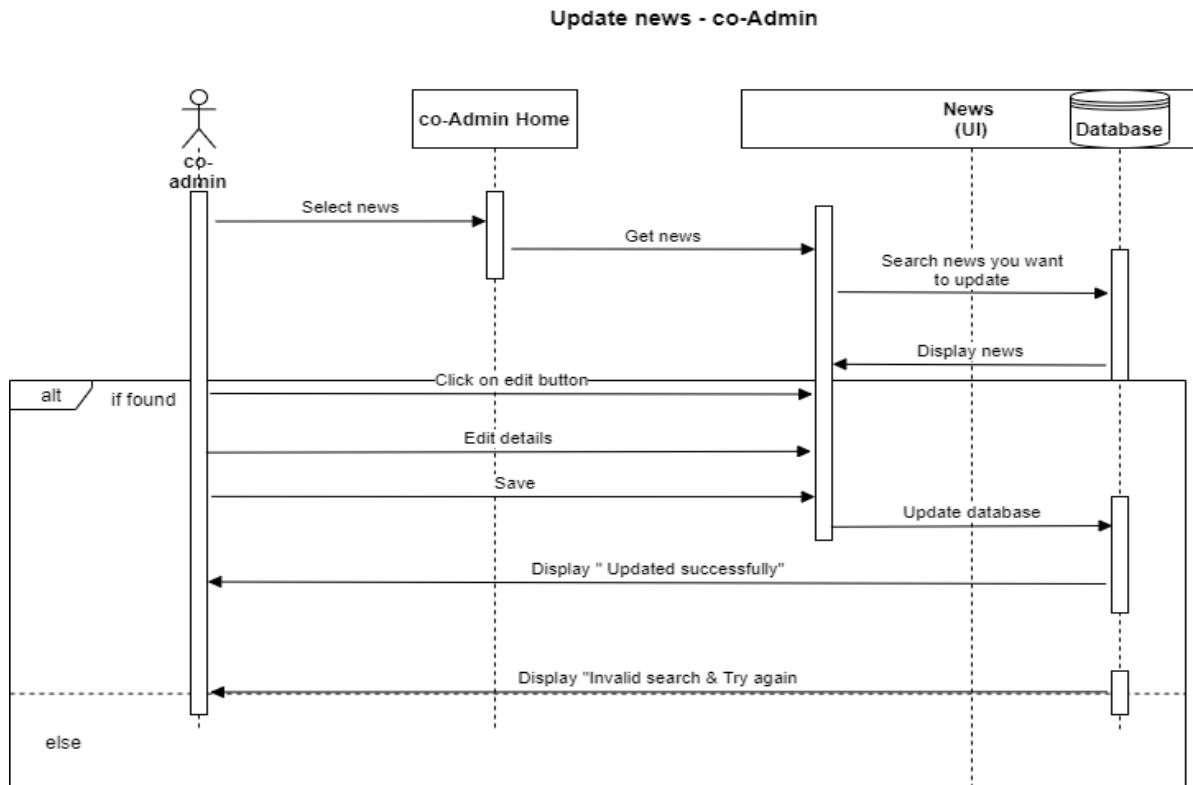


**Add Question****Add answer**

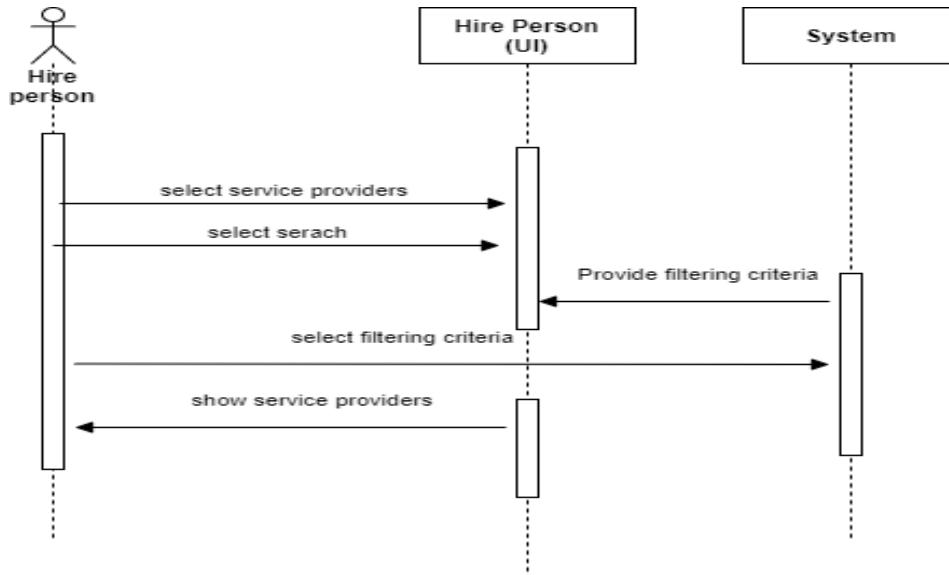


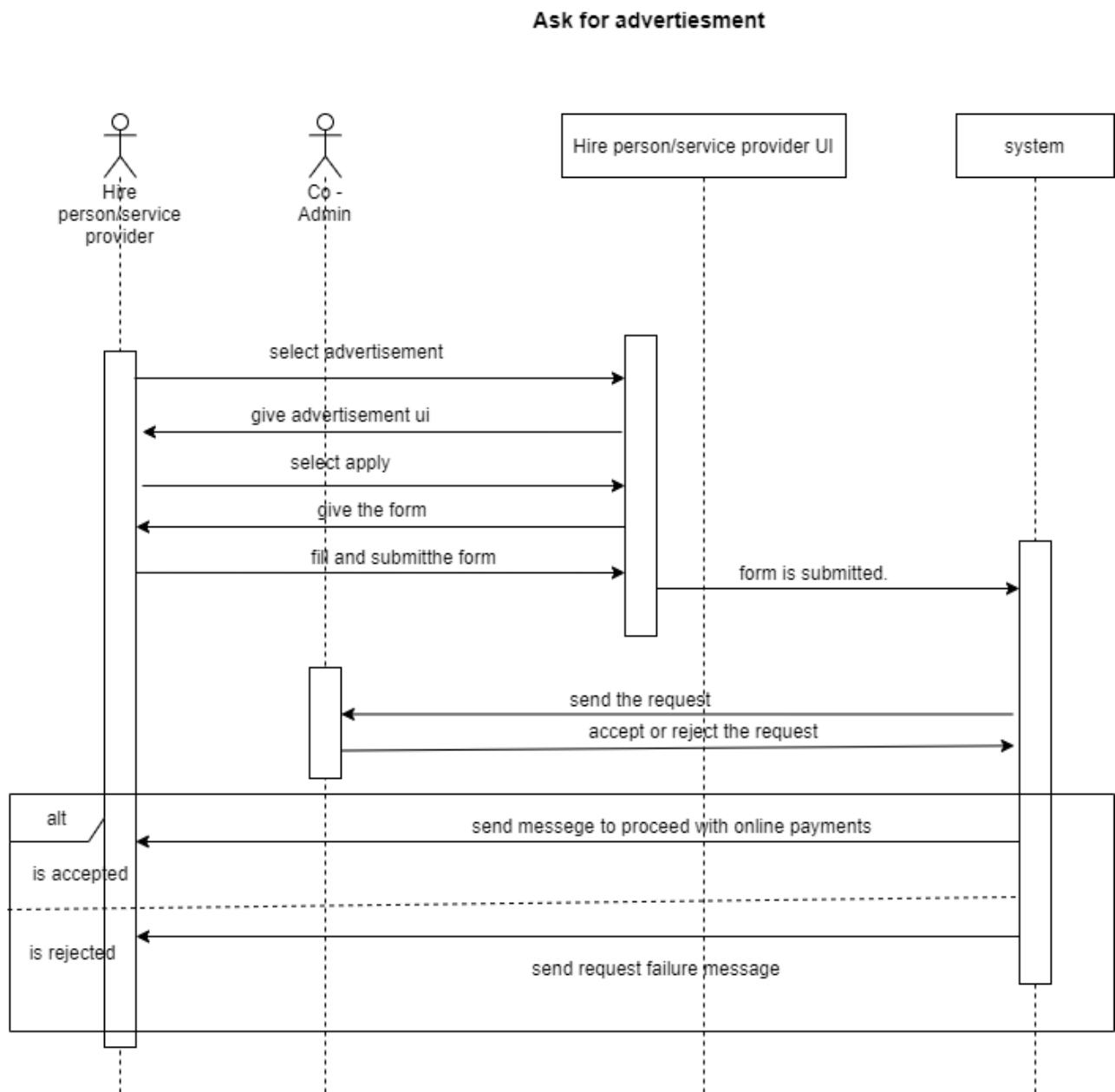


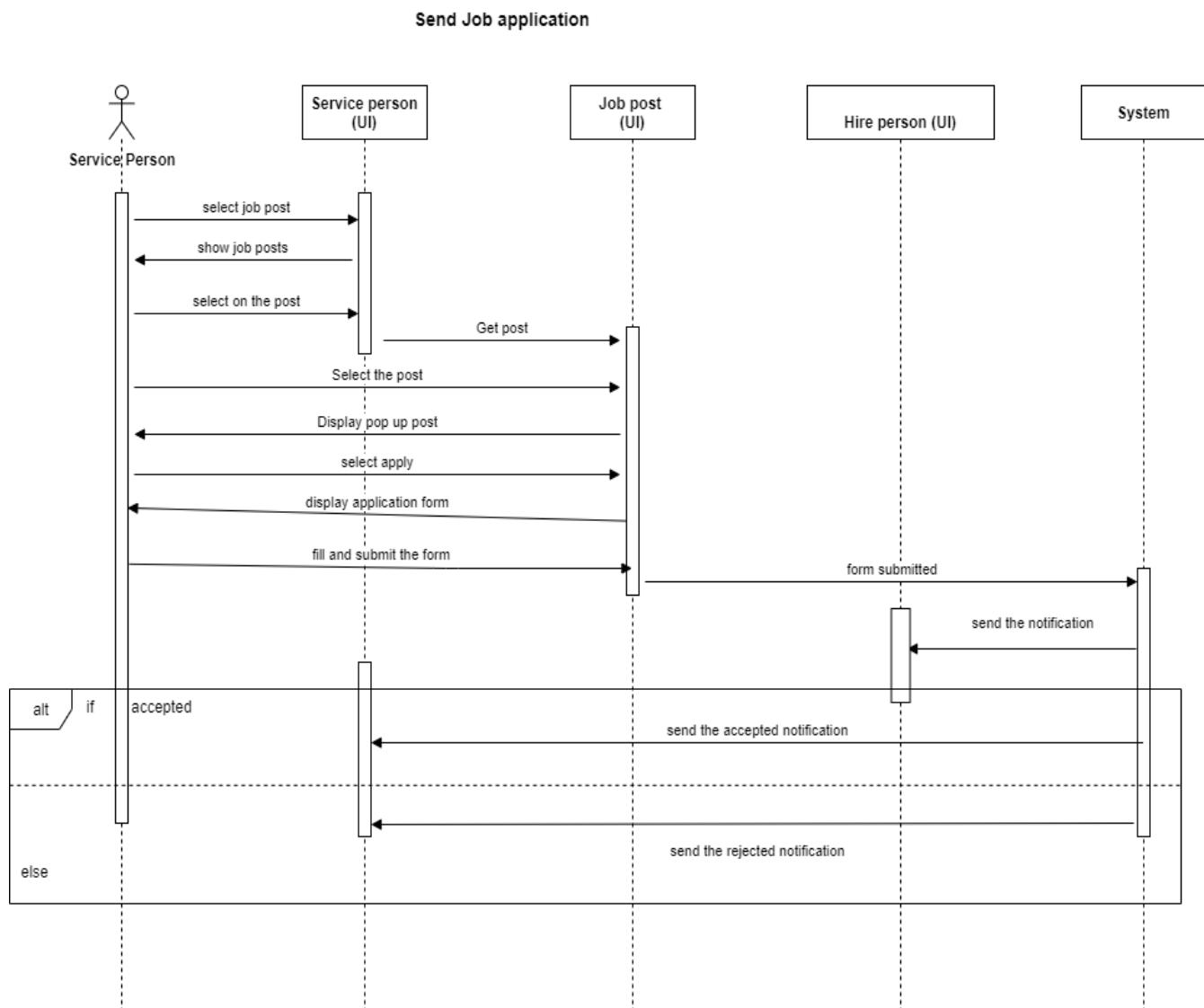


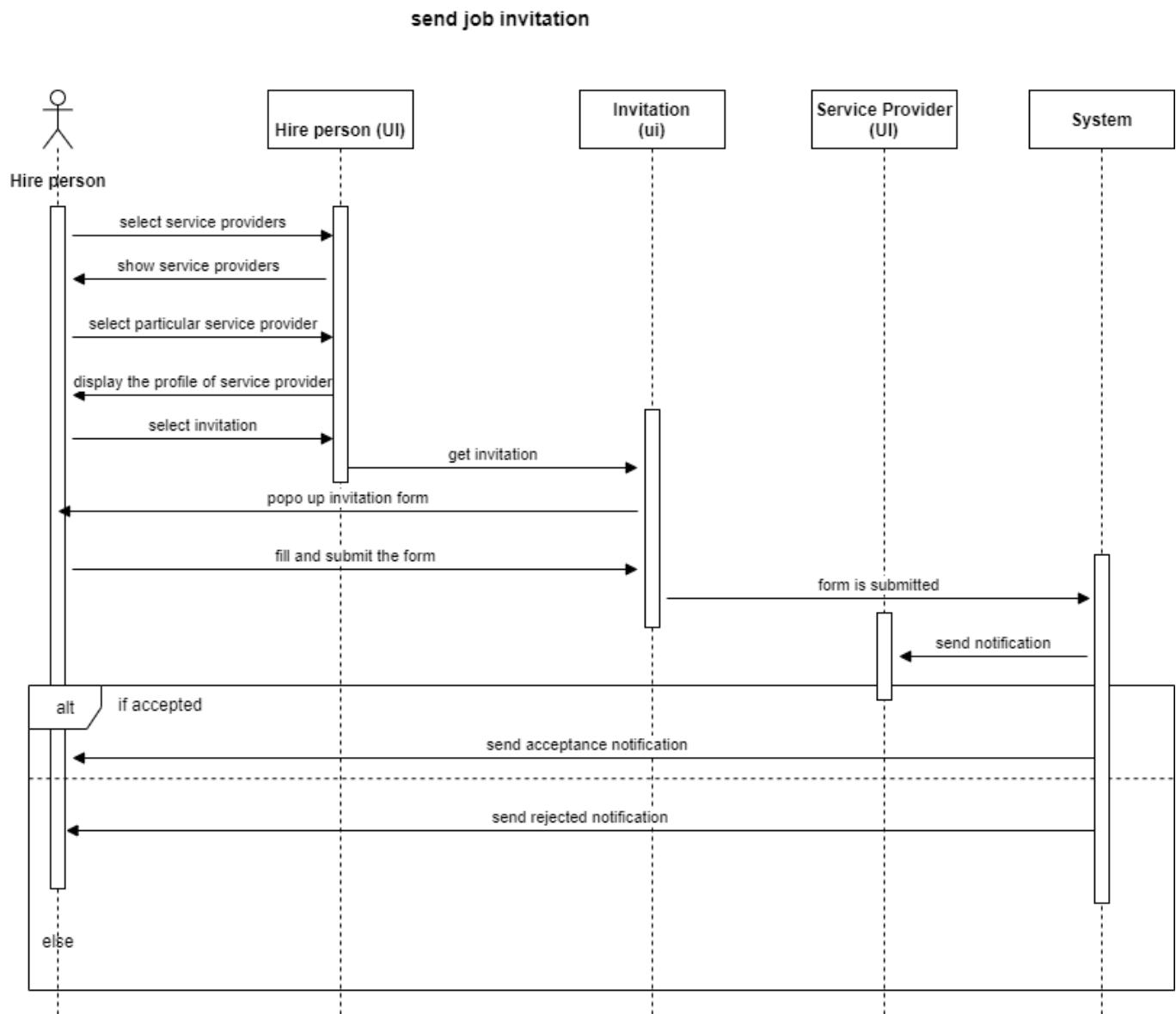


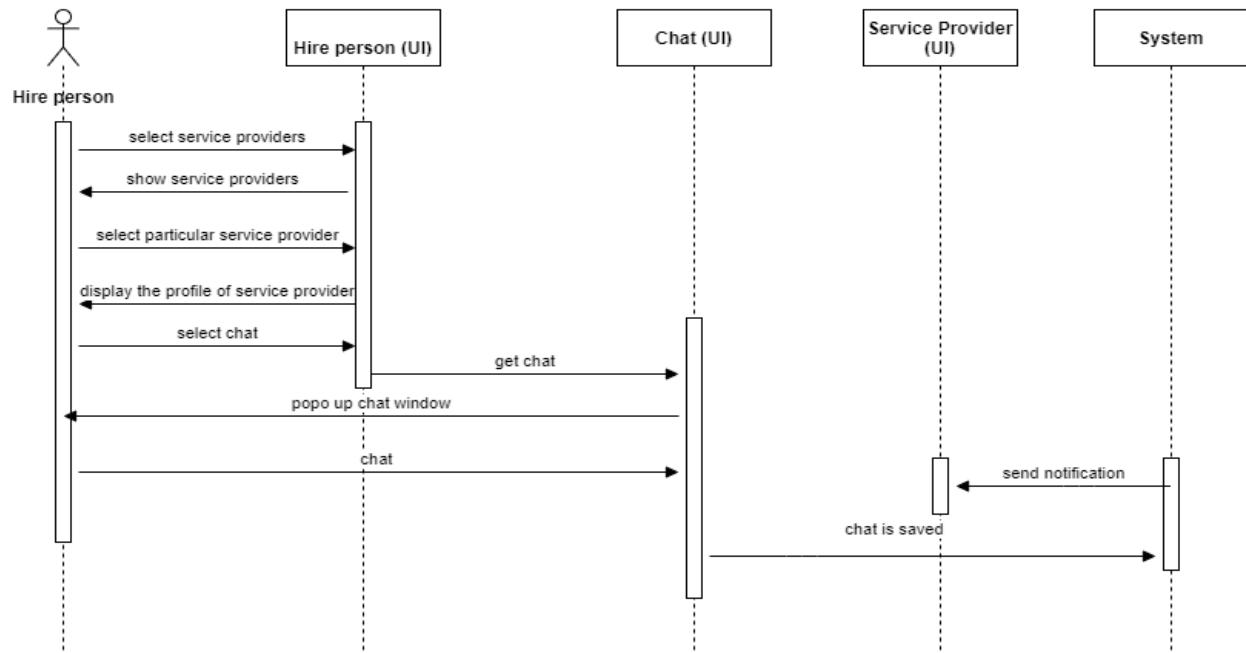
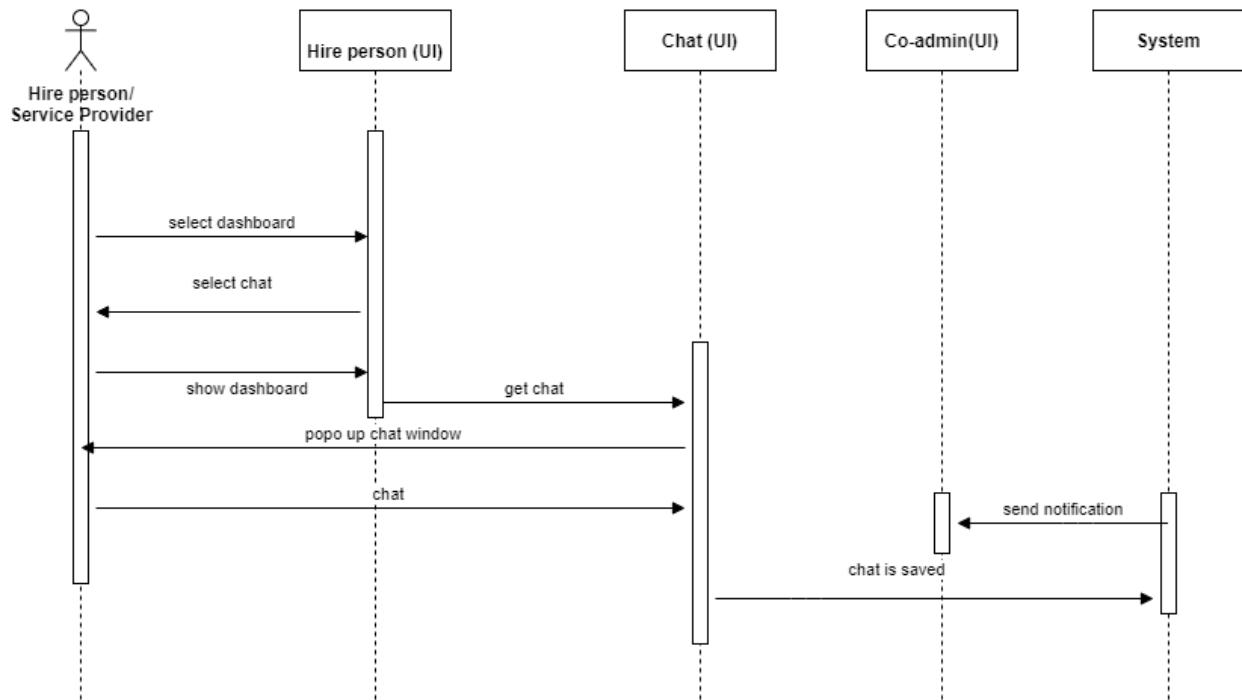
### View Service providers - Hire person





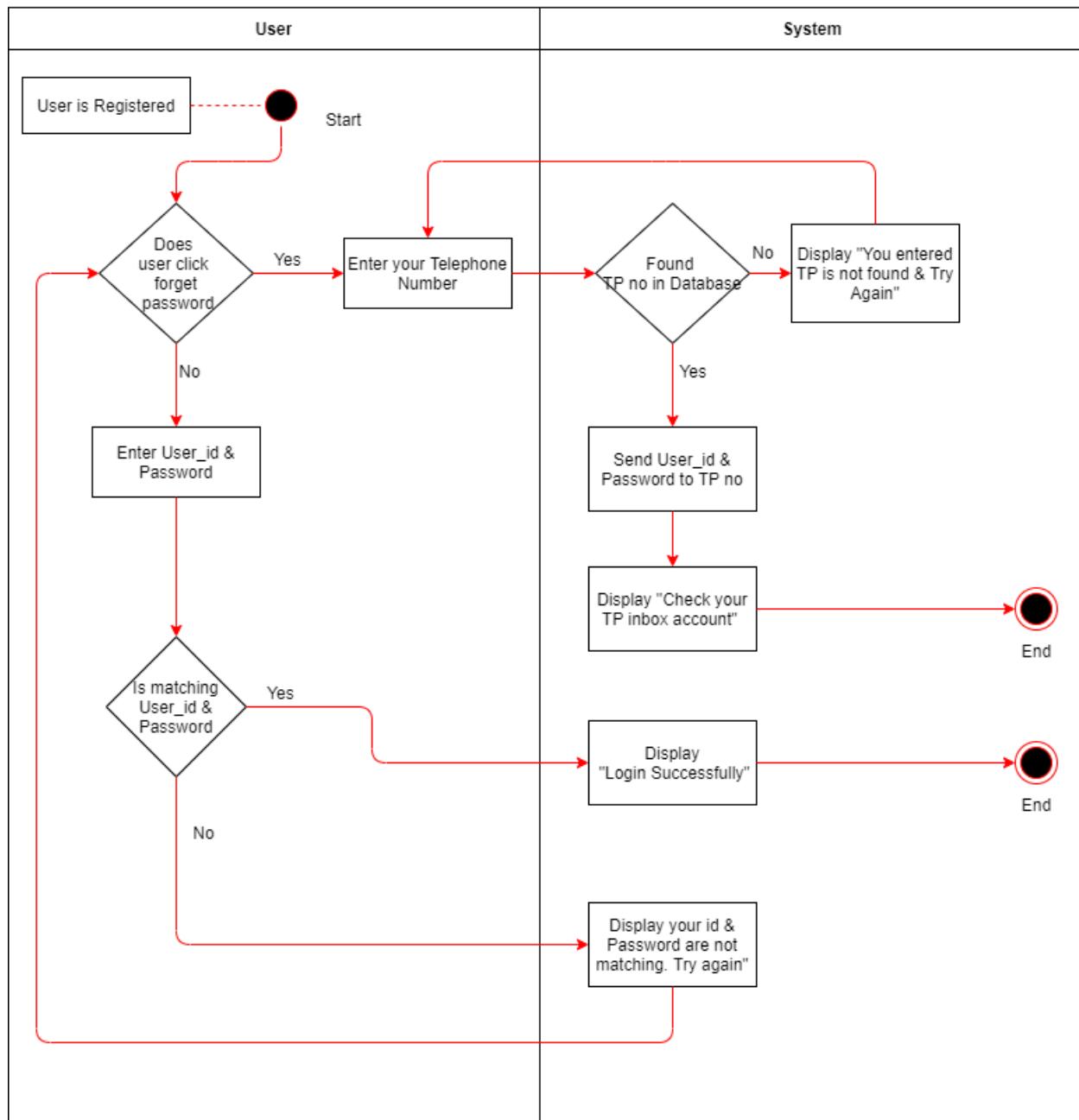


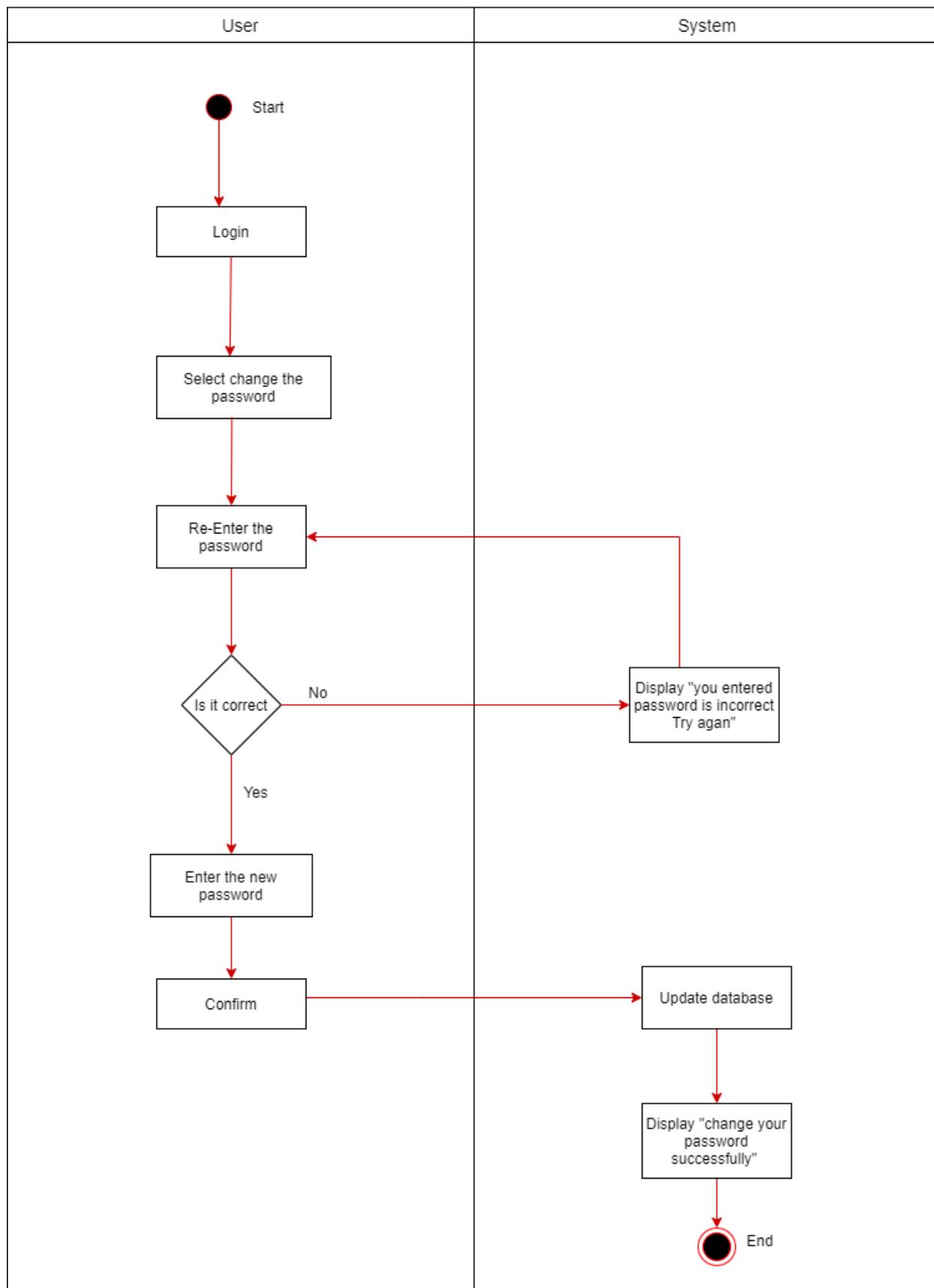


**Chat with service provider****Chat with co-admin**

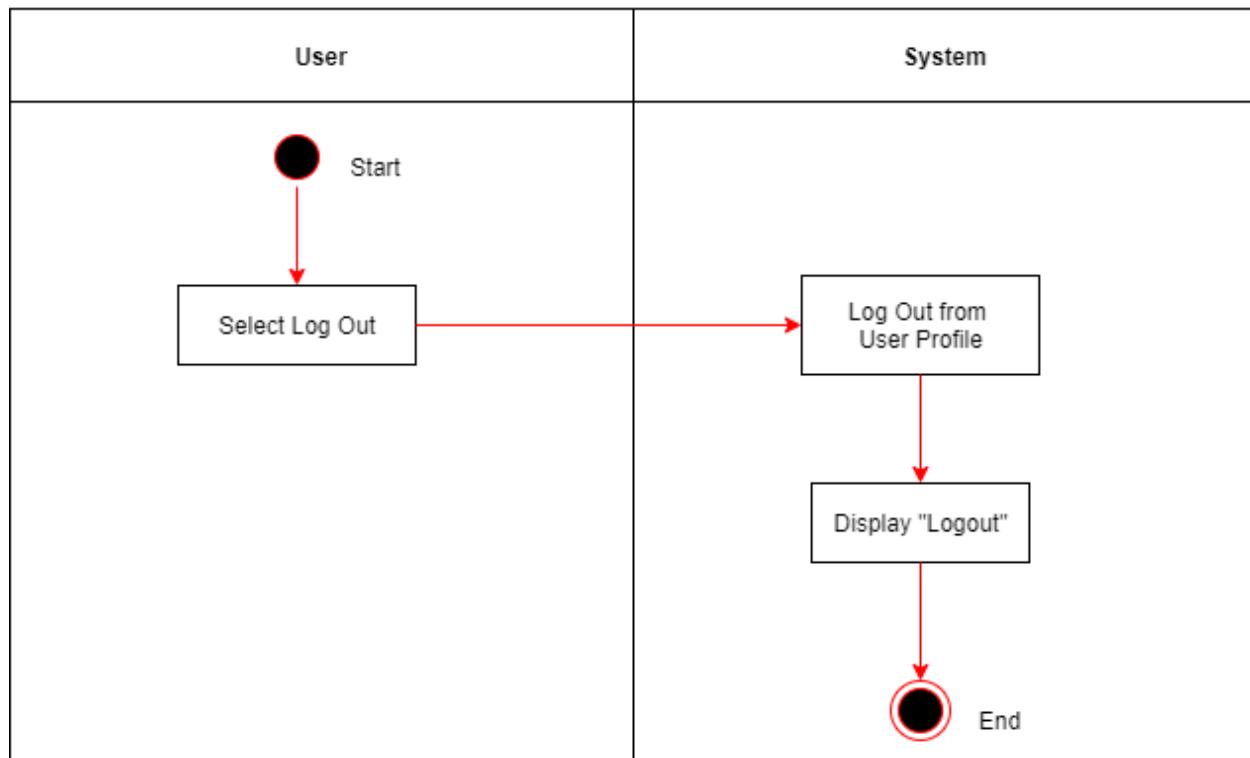
## 5.4) Activity Diagrams

### Login - All Users

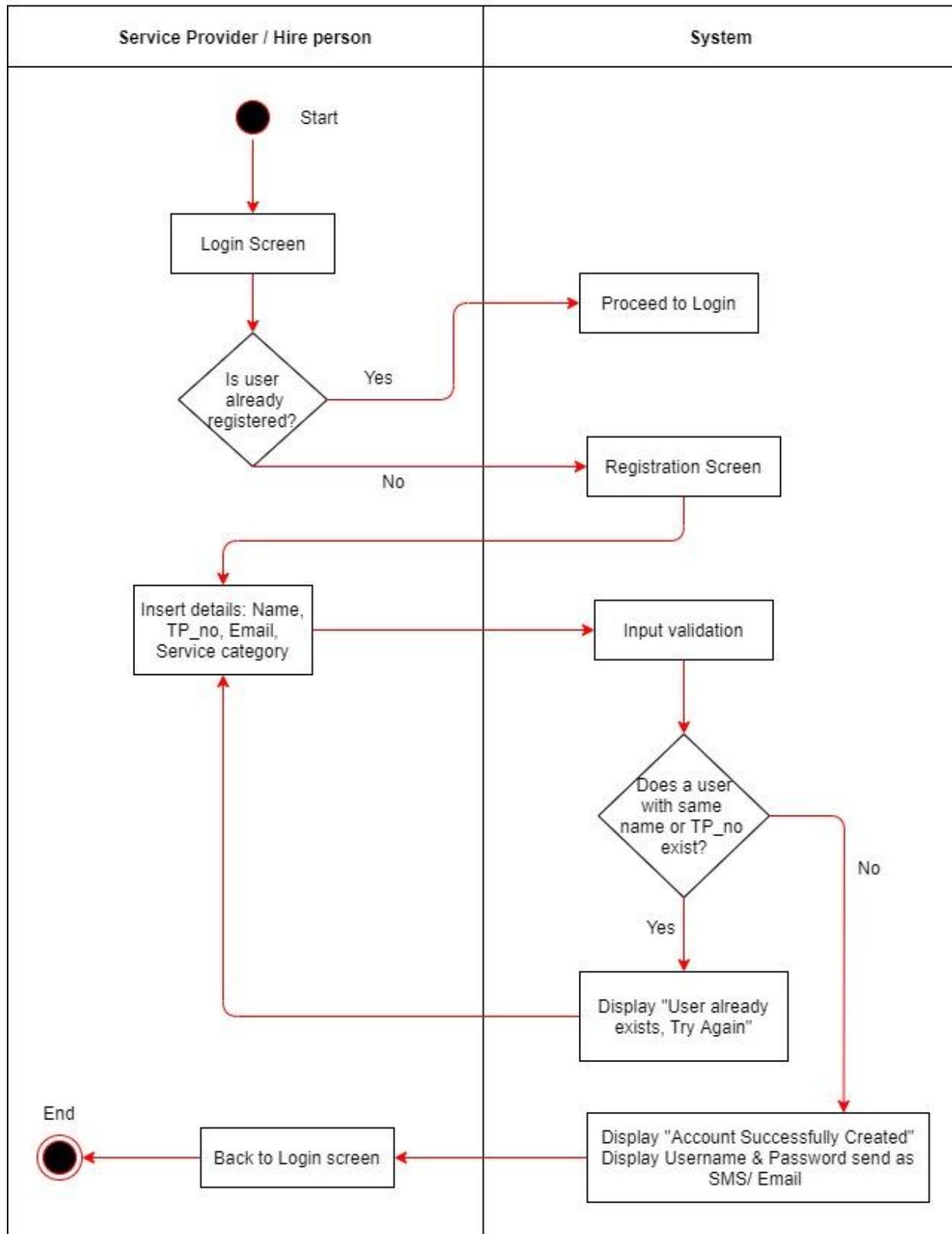


**Change Login Password**

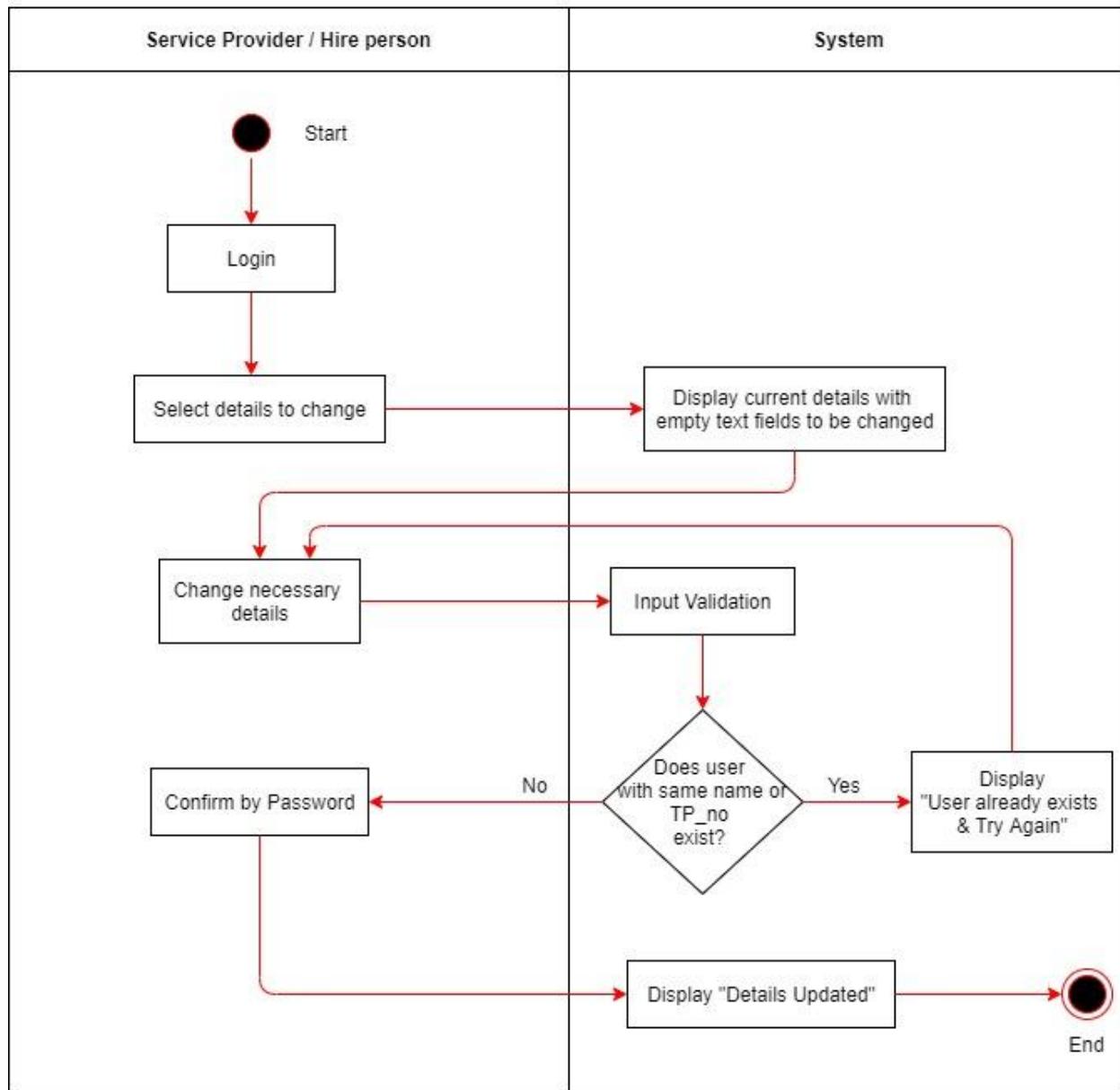
## Logout - ALL User

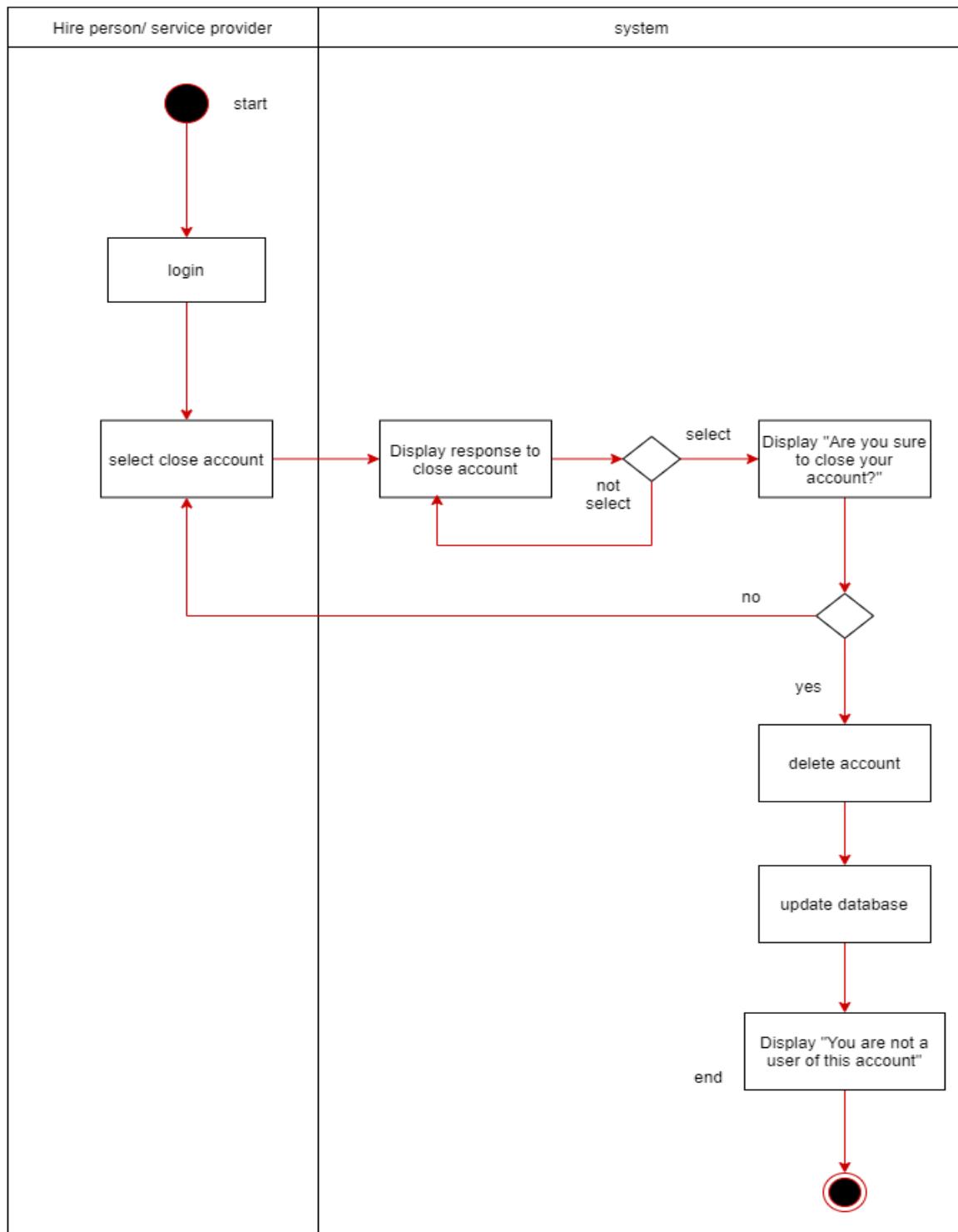


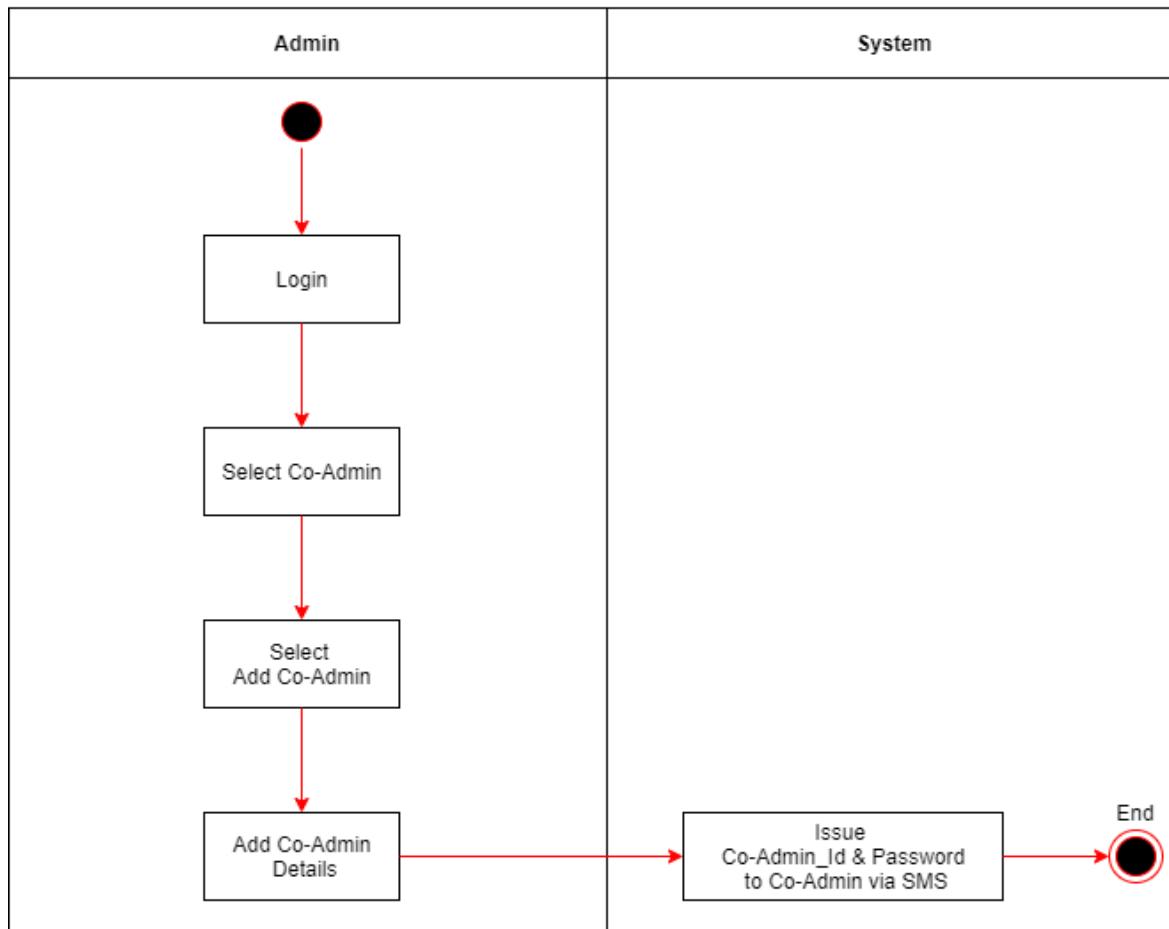
## Register - Service Provider or Hire person



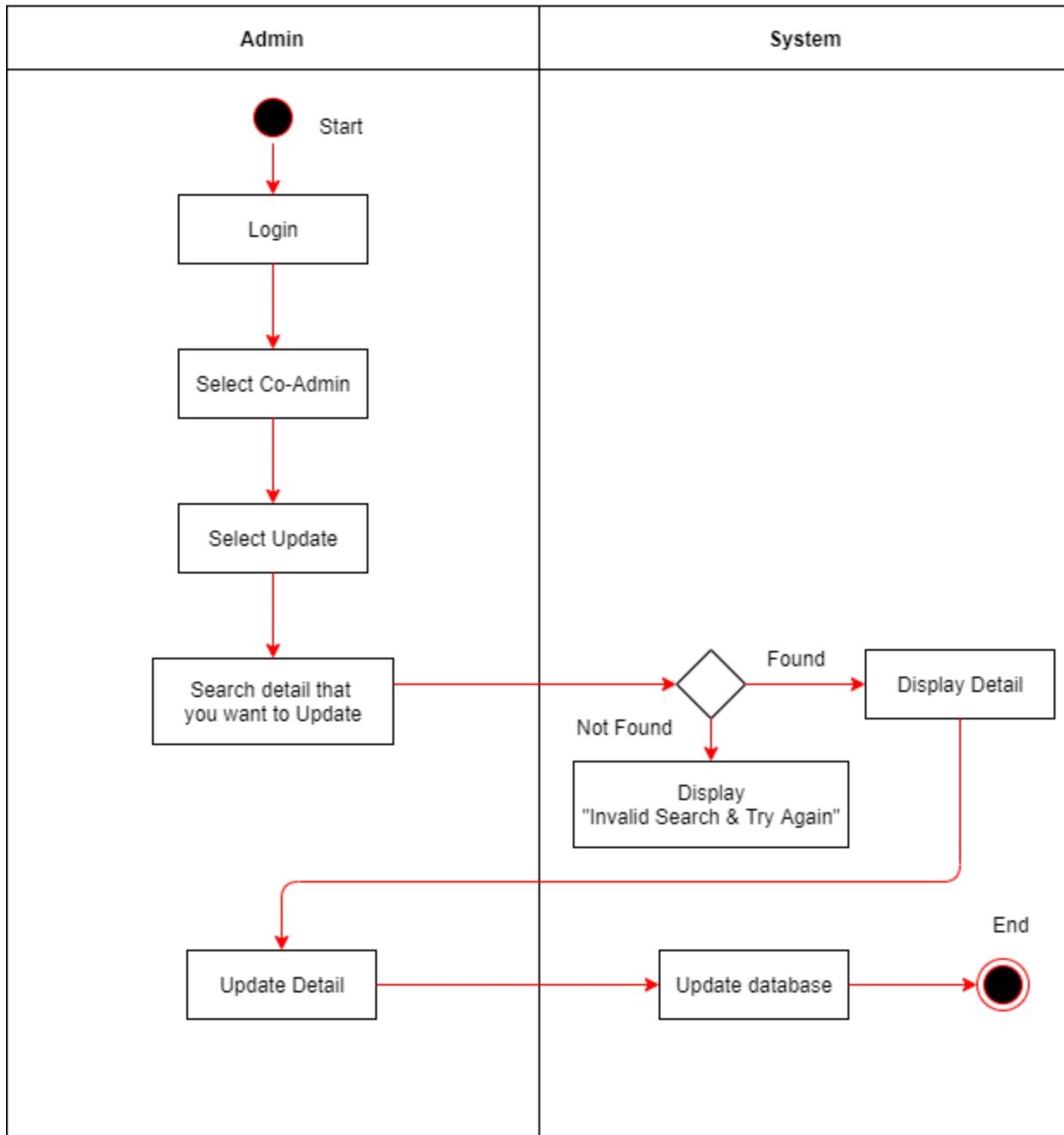
### Update Profile - Service Provider or Hire person



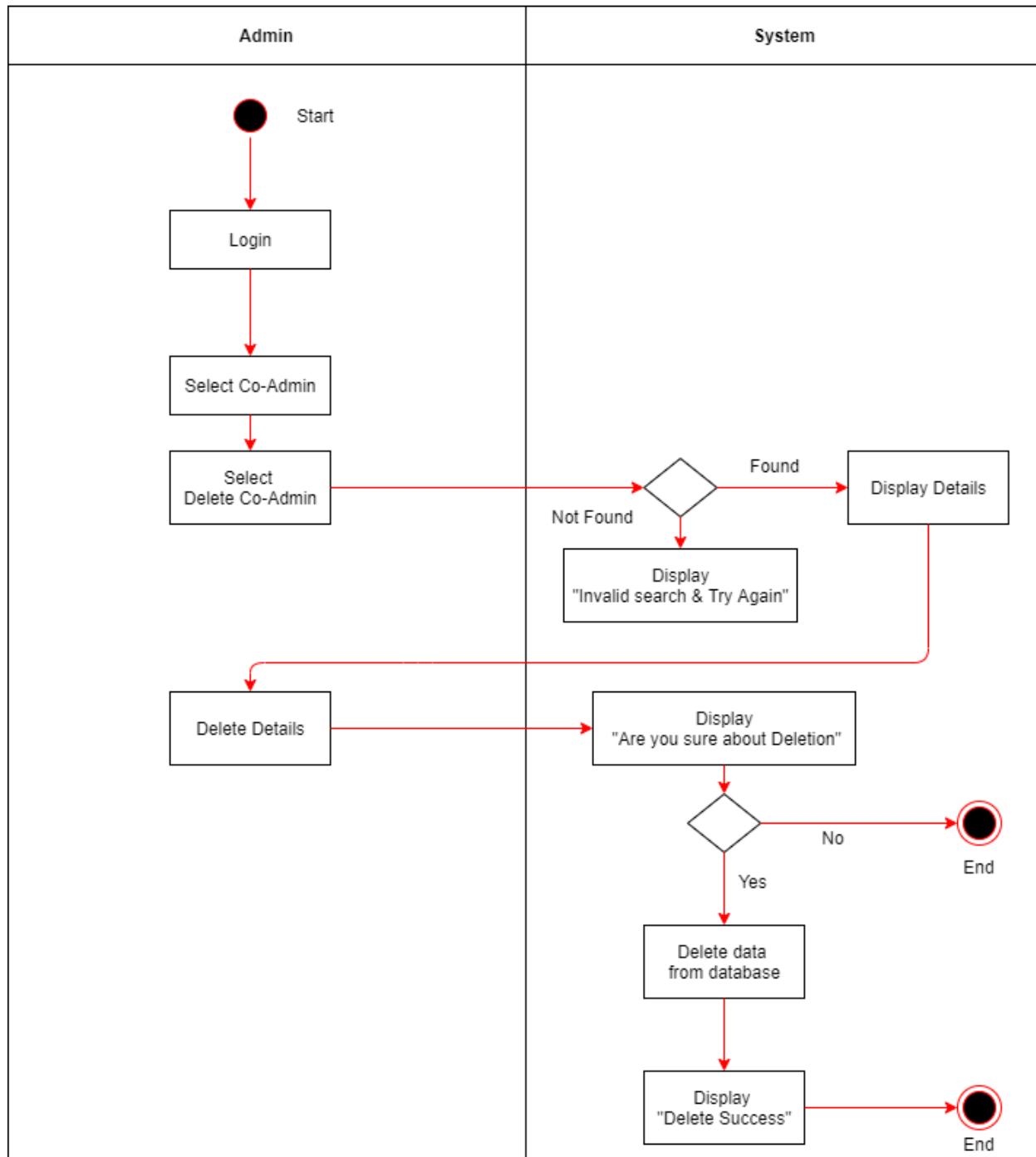
**Deactivate the account - Hire person / service provider**

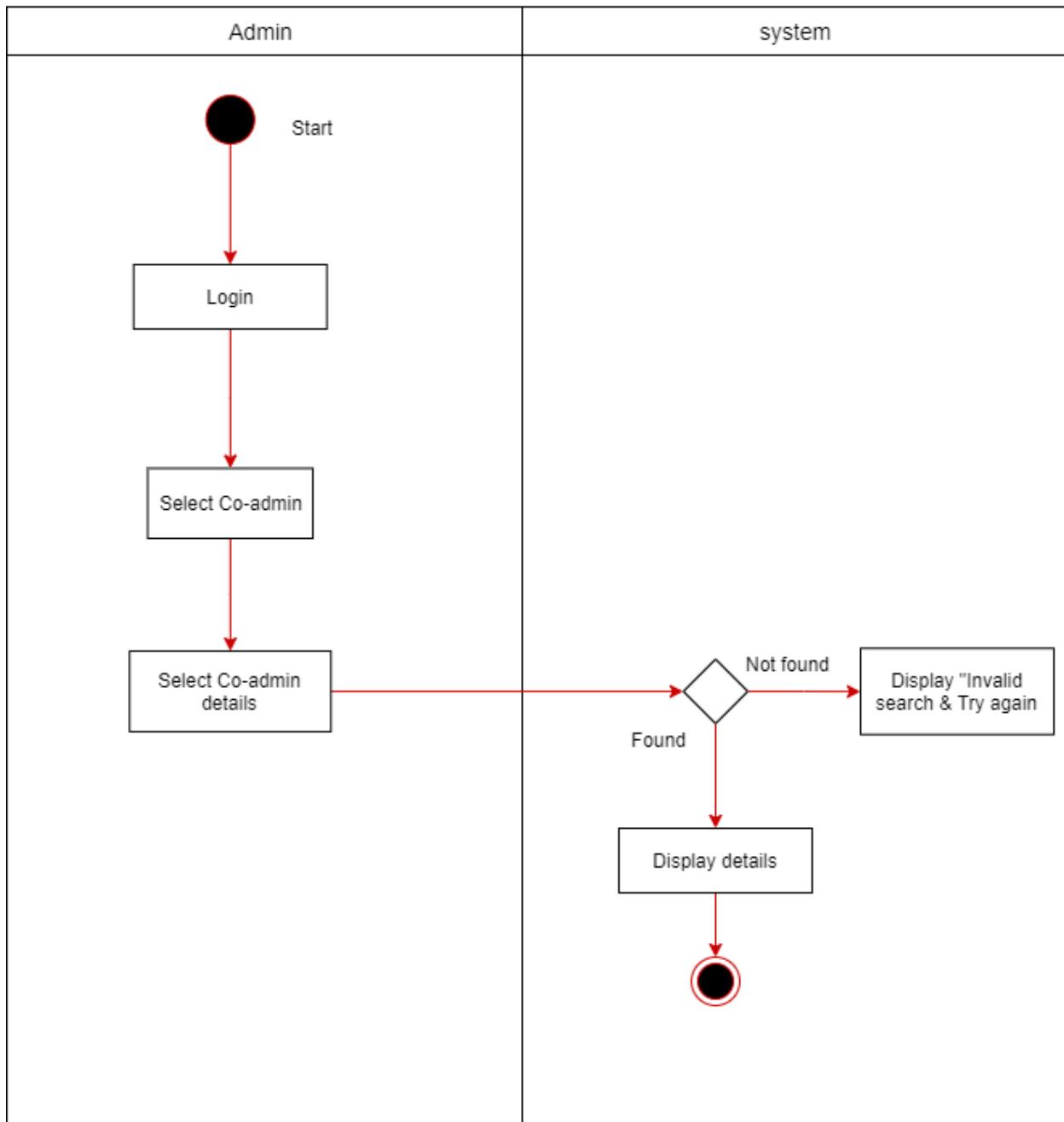
**Add Co-Admin - Admin**

## Update Co-Admin - Admin

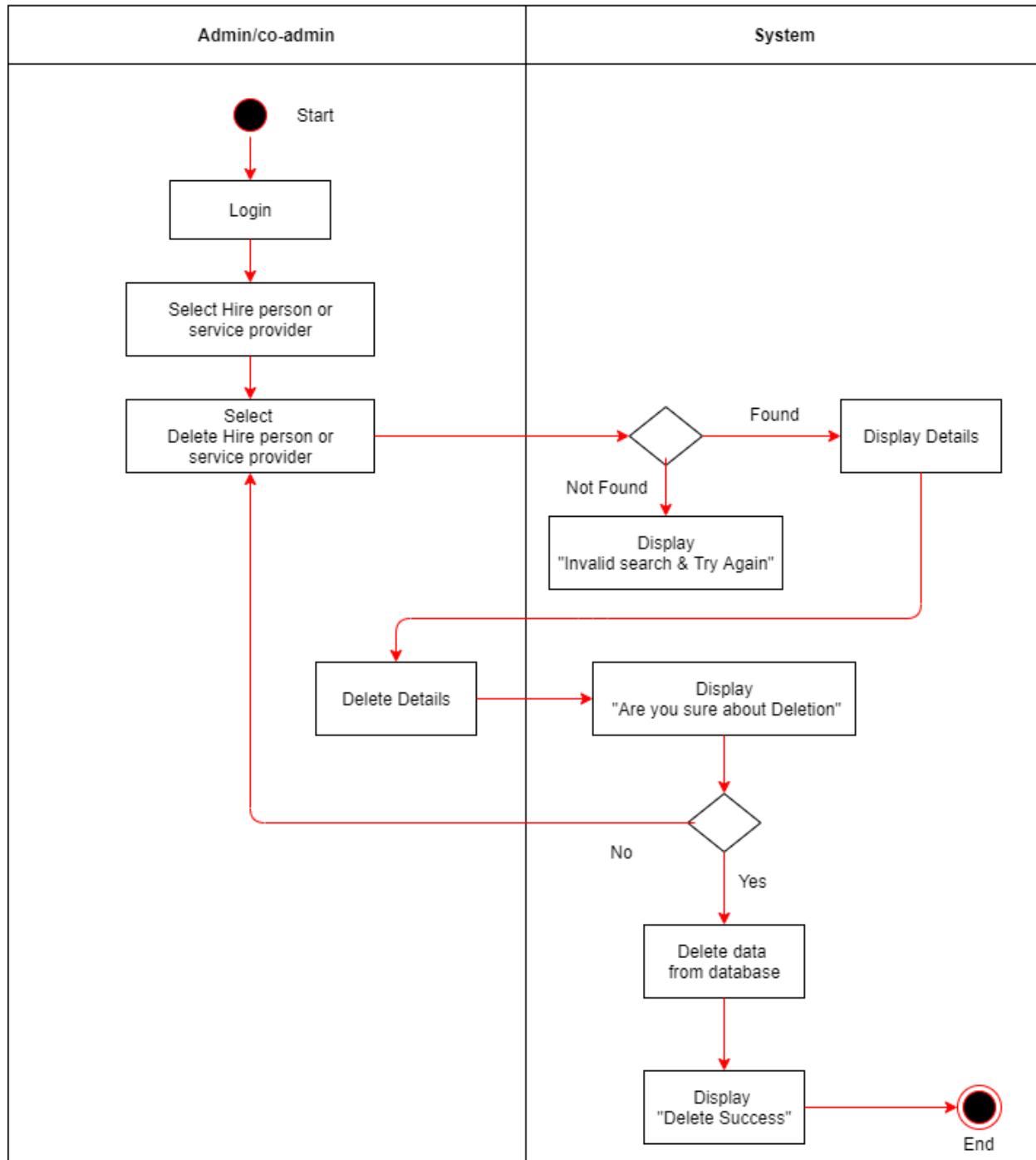


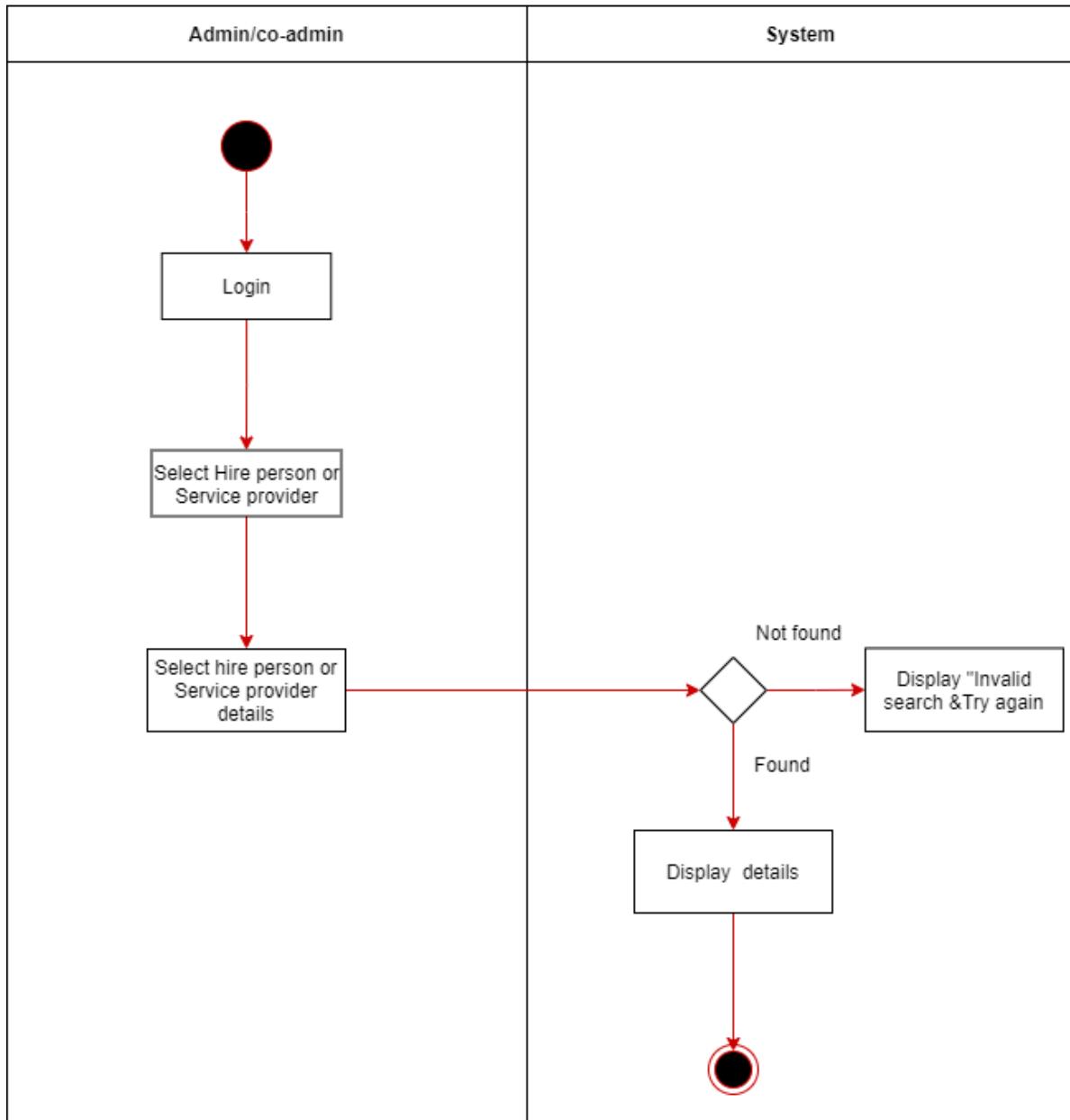
### Delete Co-Admin - Admin

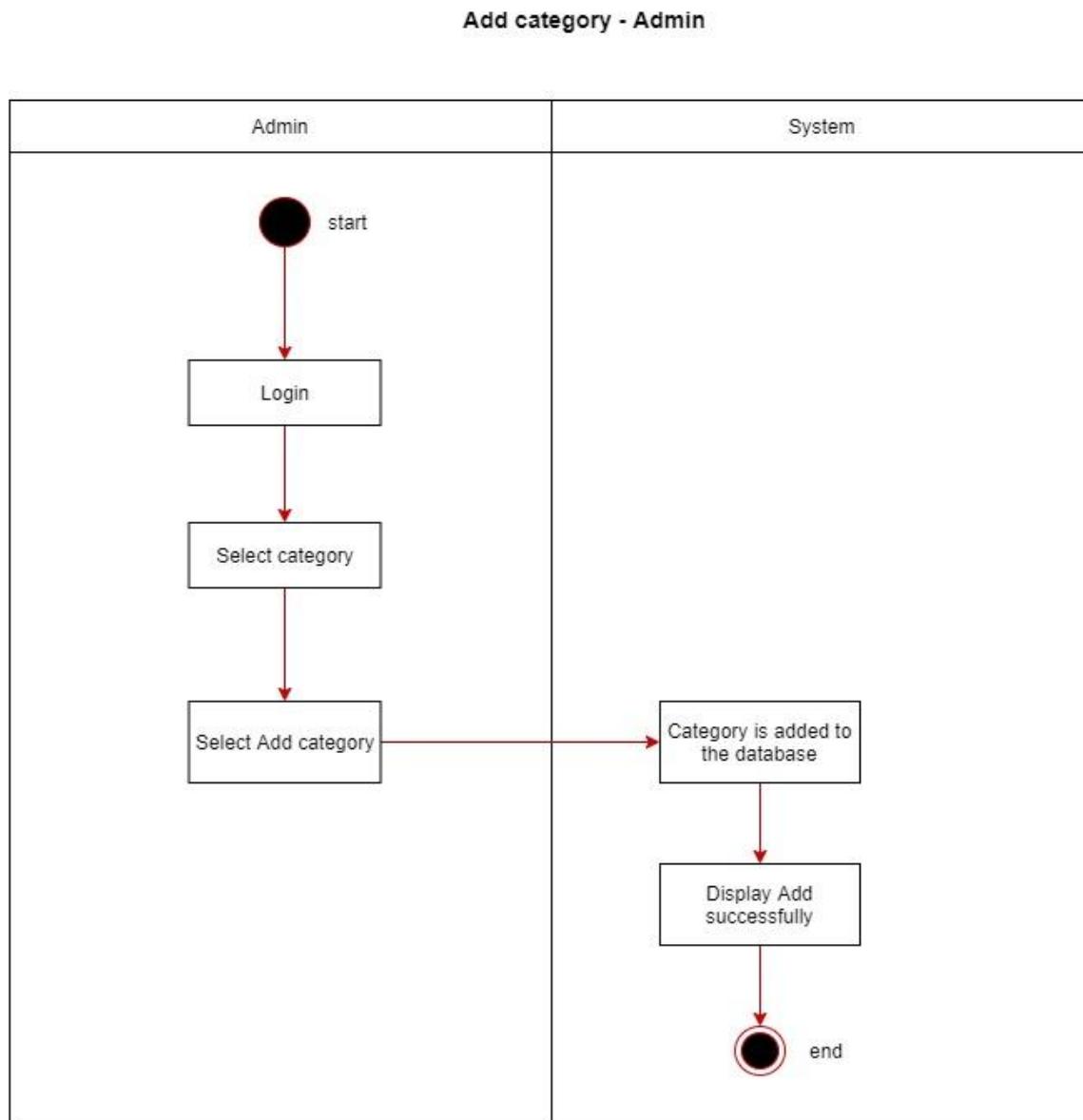


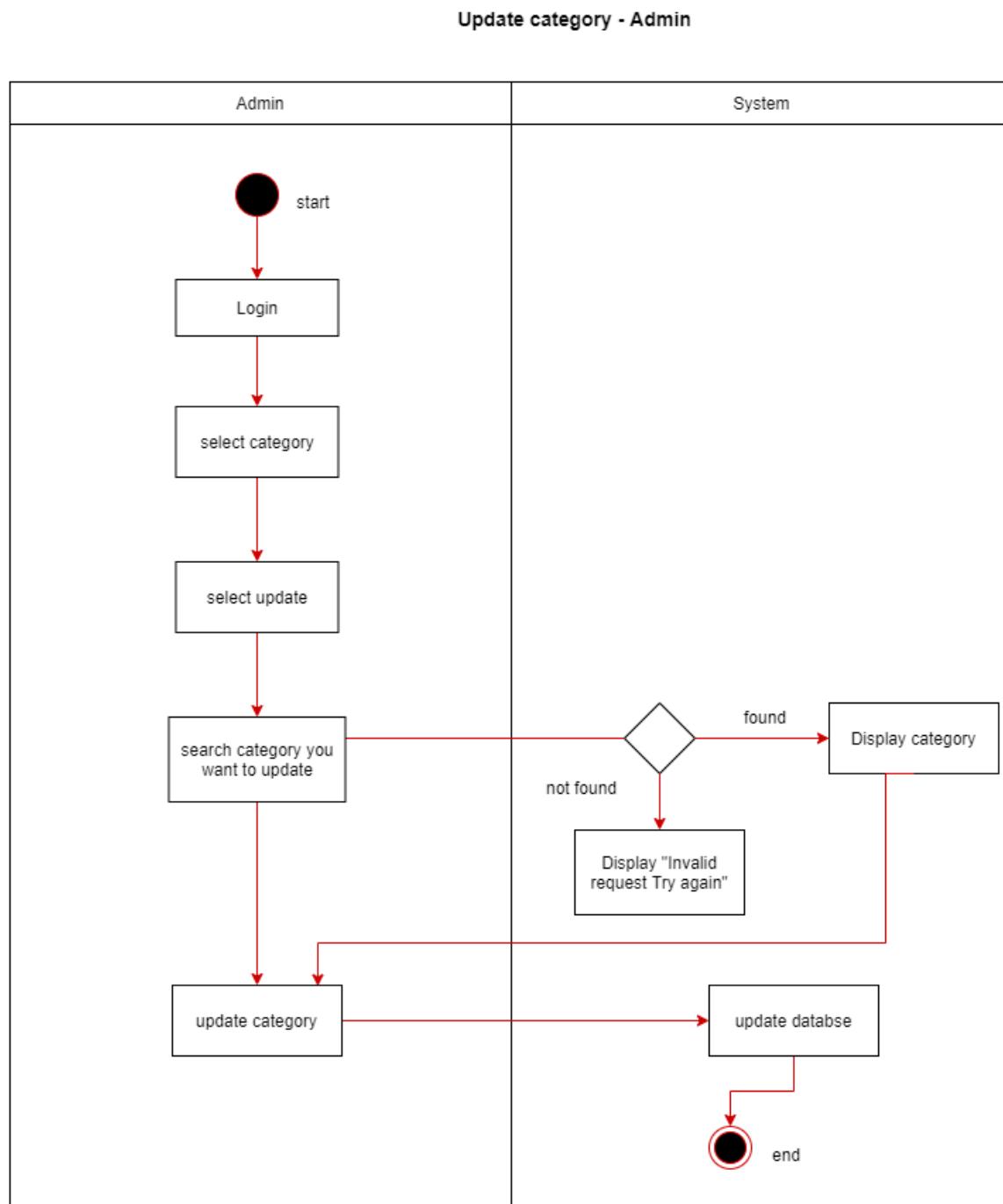
**View co-admin details - Admin**

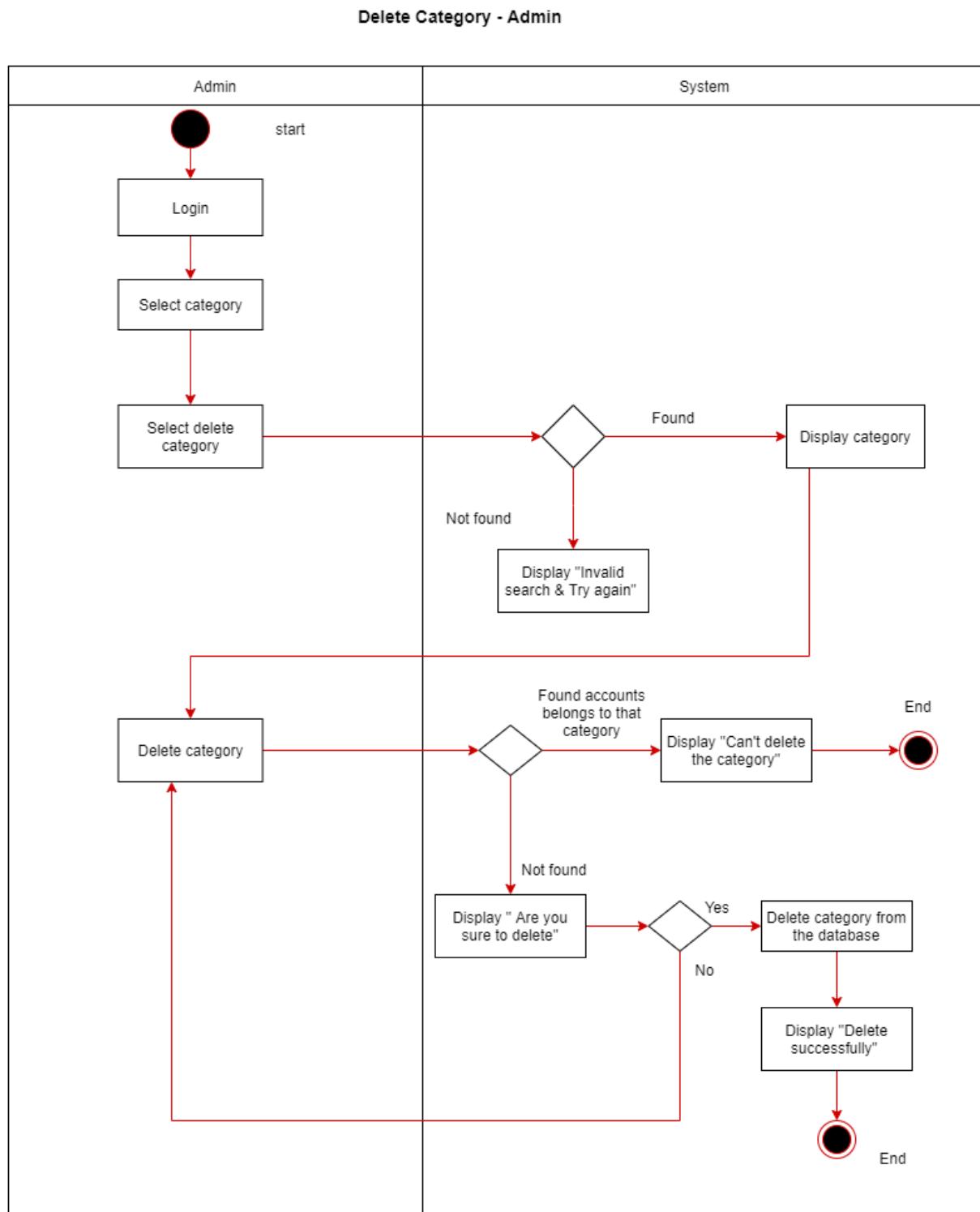
### Delete Hire person or service provider - Admin,co-admin

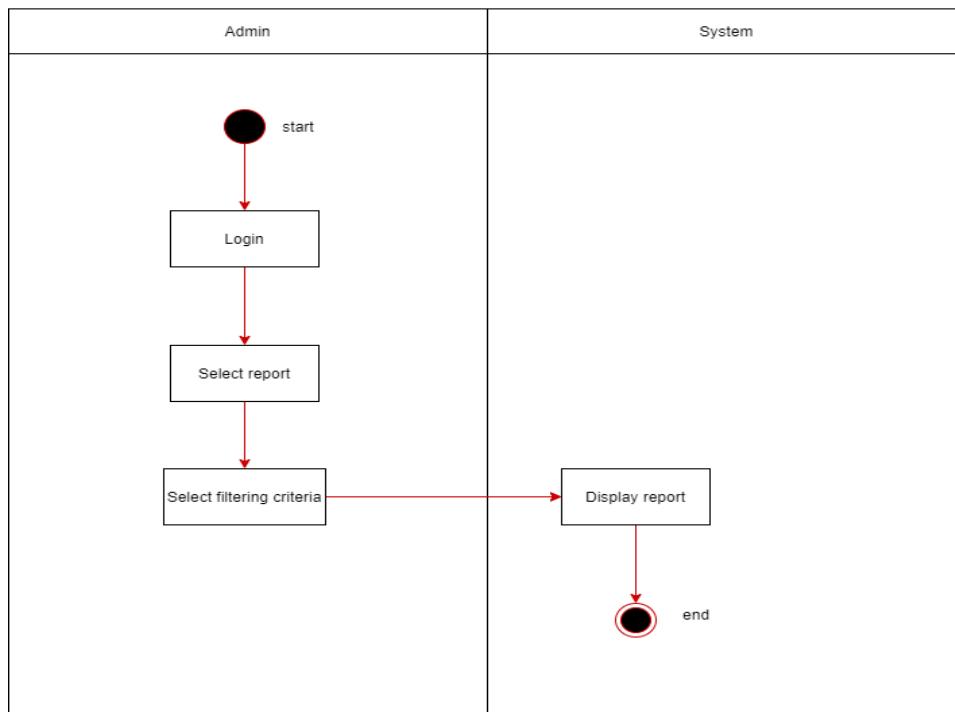
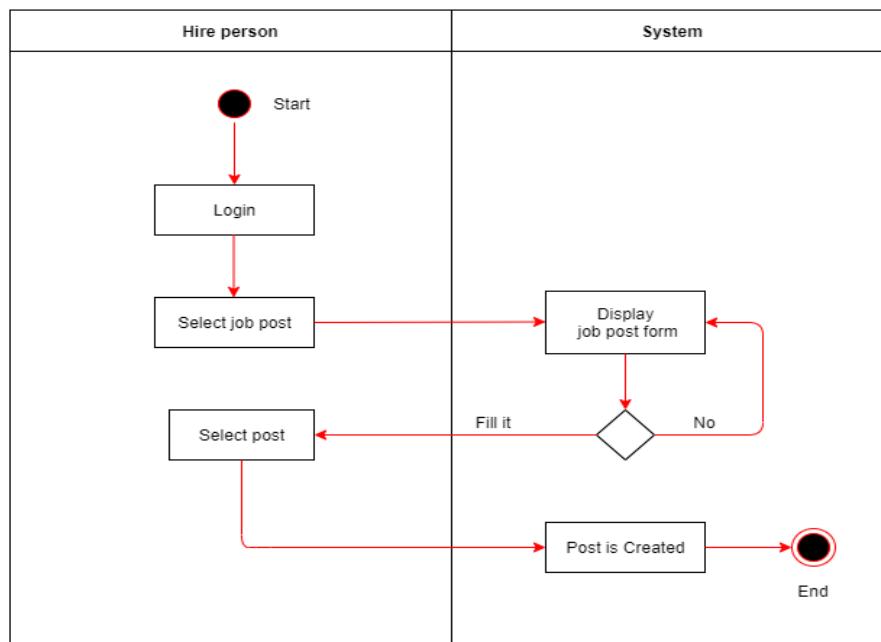


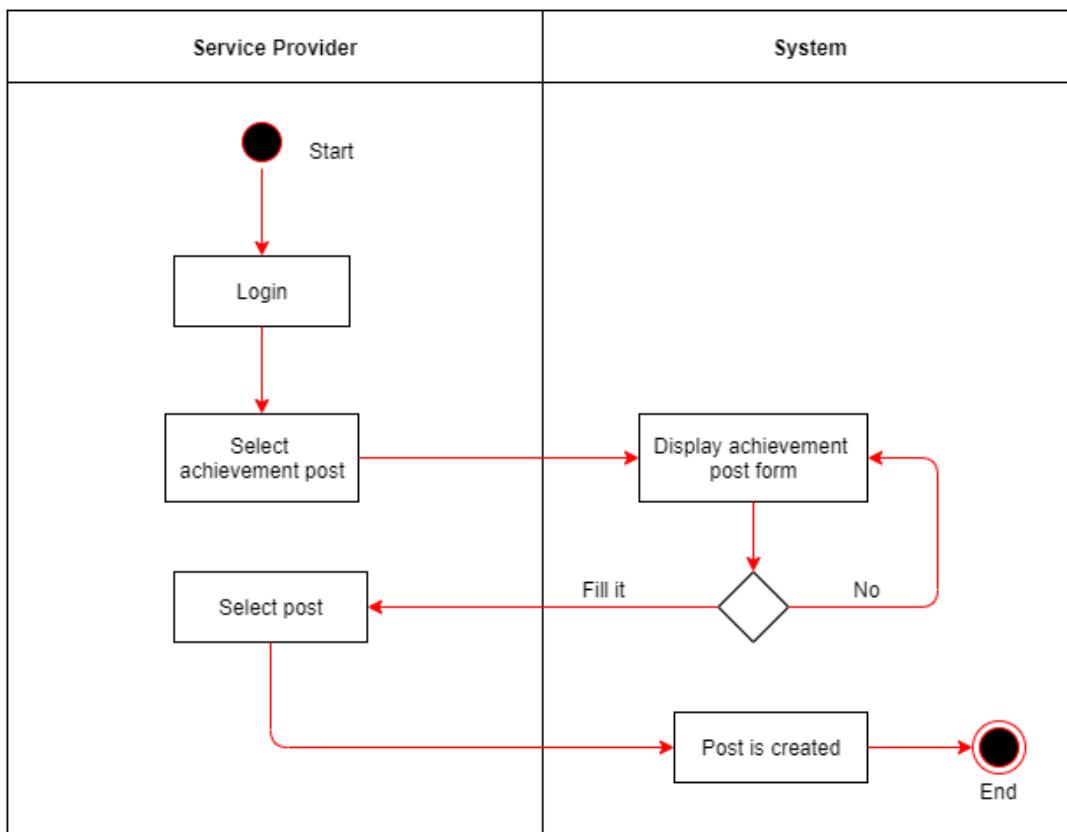
**View Hire person/ Service provider details - Admin/co-admin**



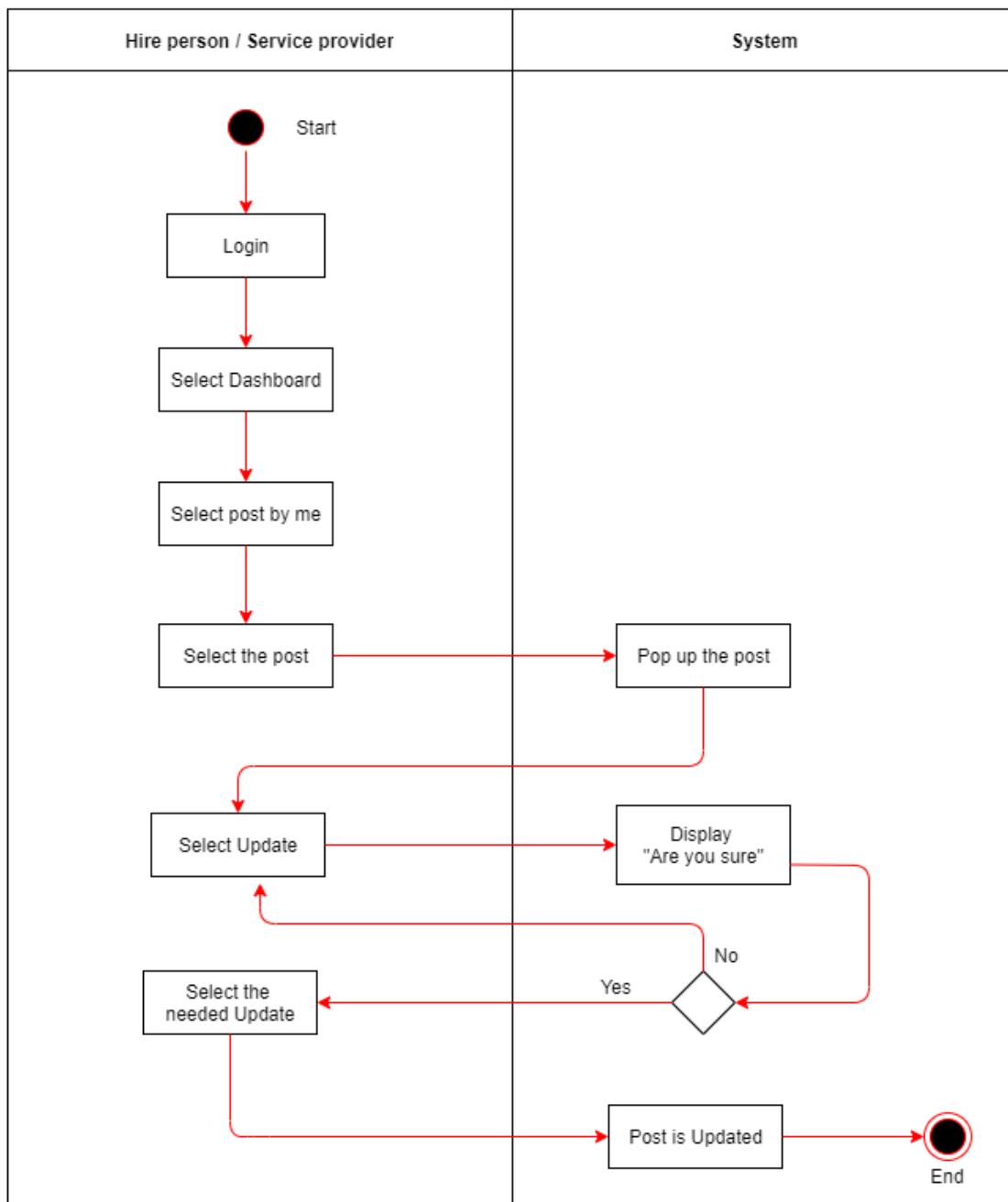




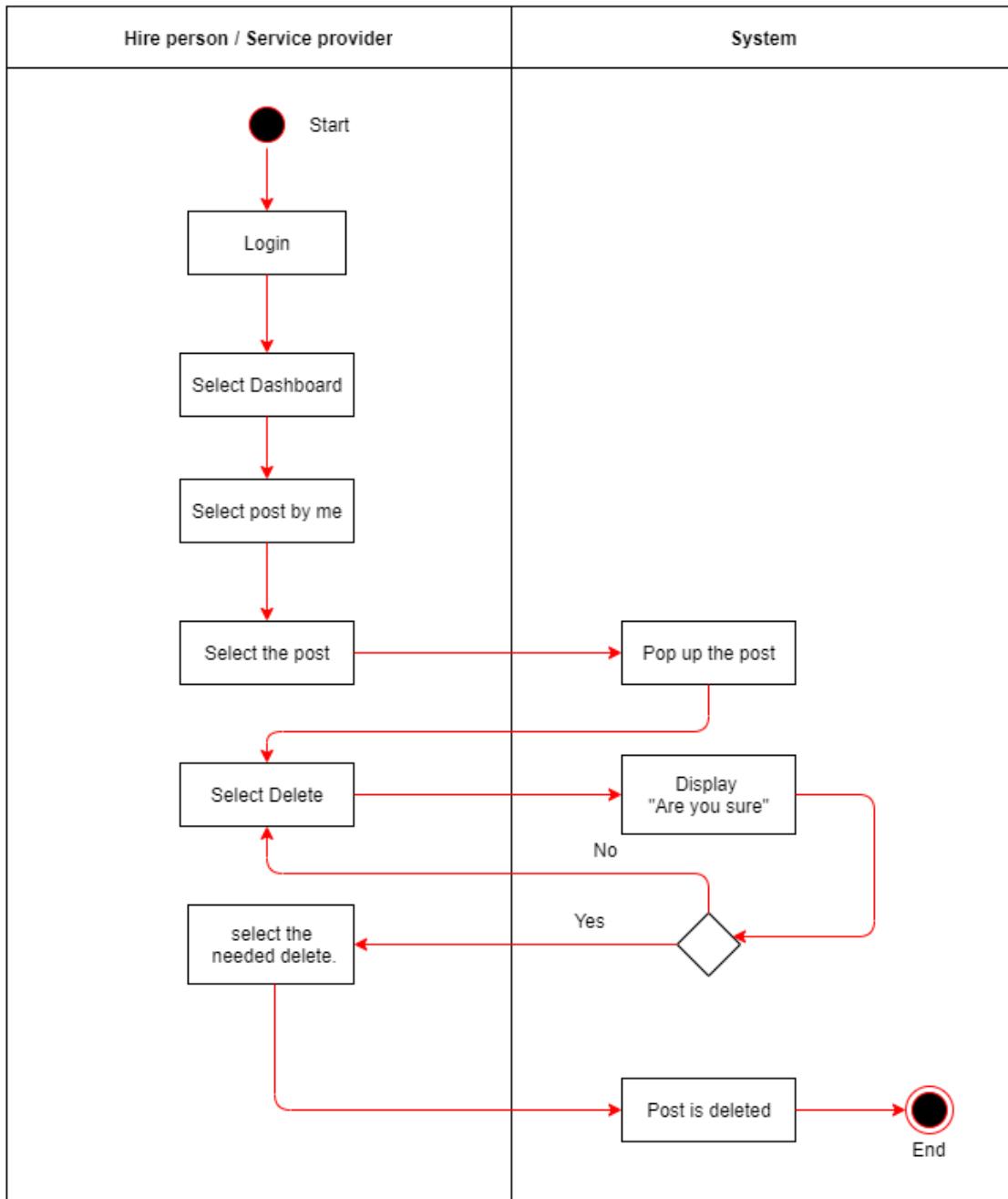
**view insights - Admin****Create Job Post - Hire Person**

**Create Achievement Post - Service provider**

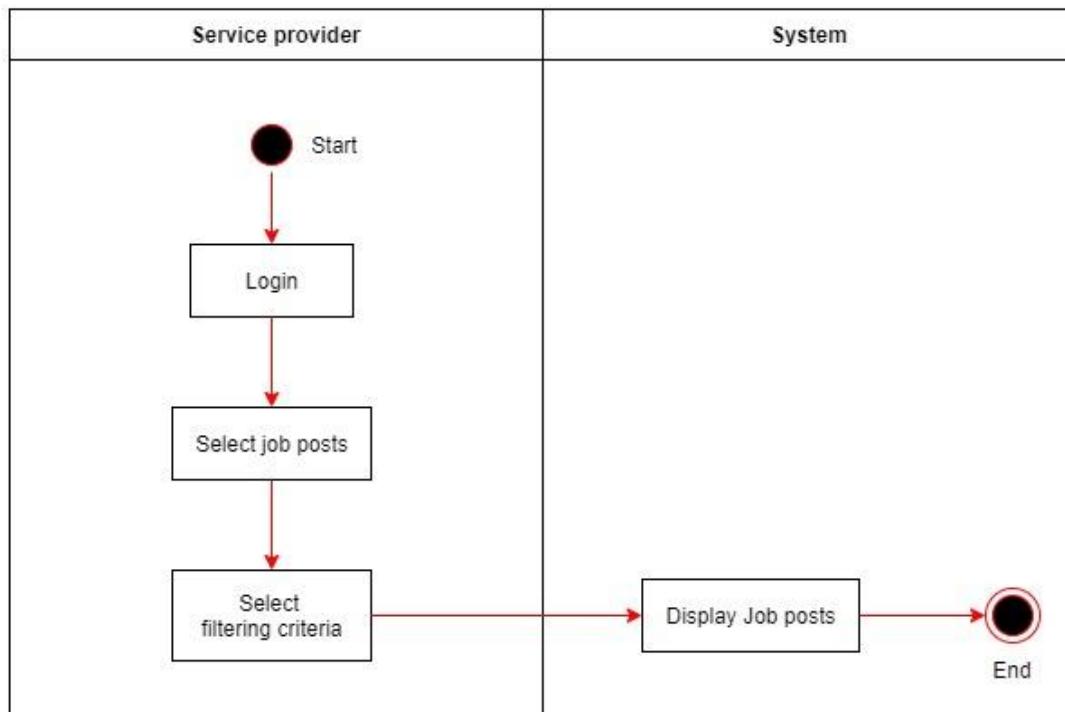
### Update Job Post, Achievement Post

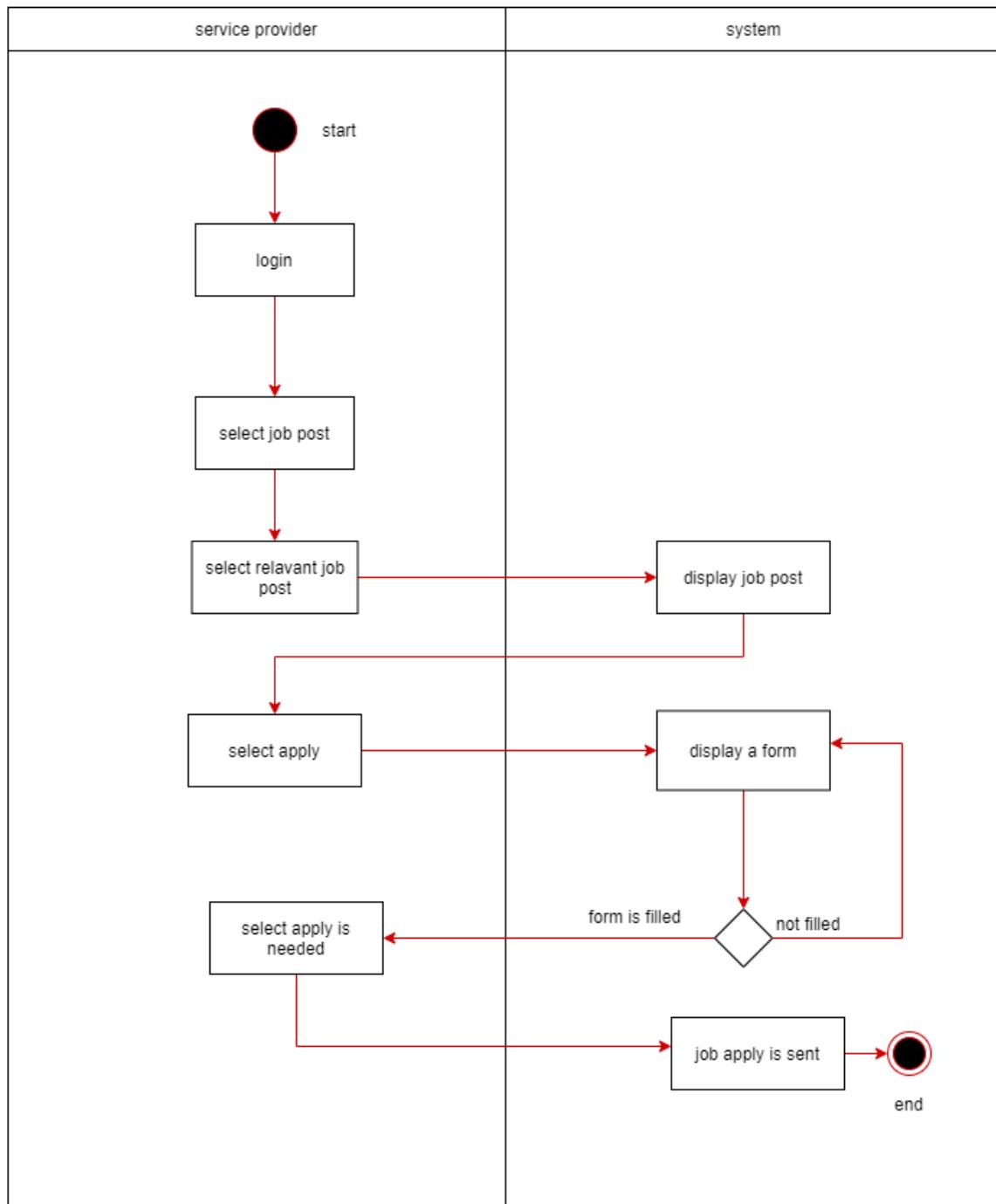


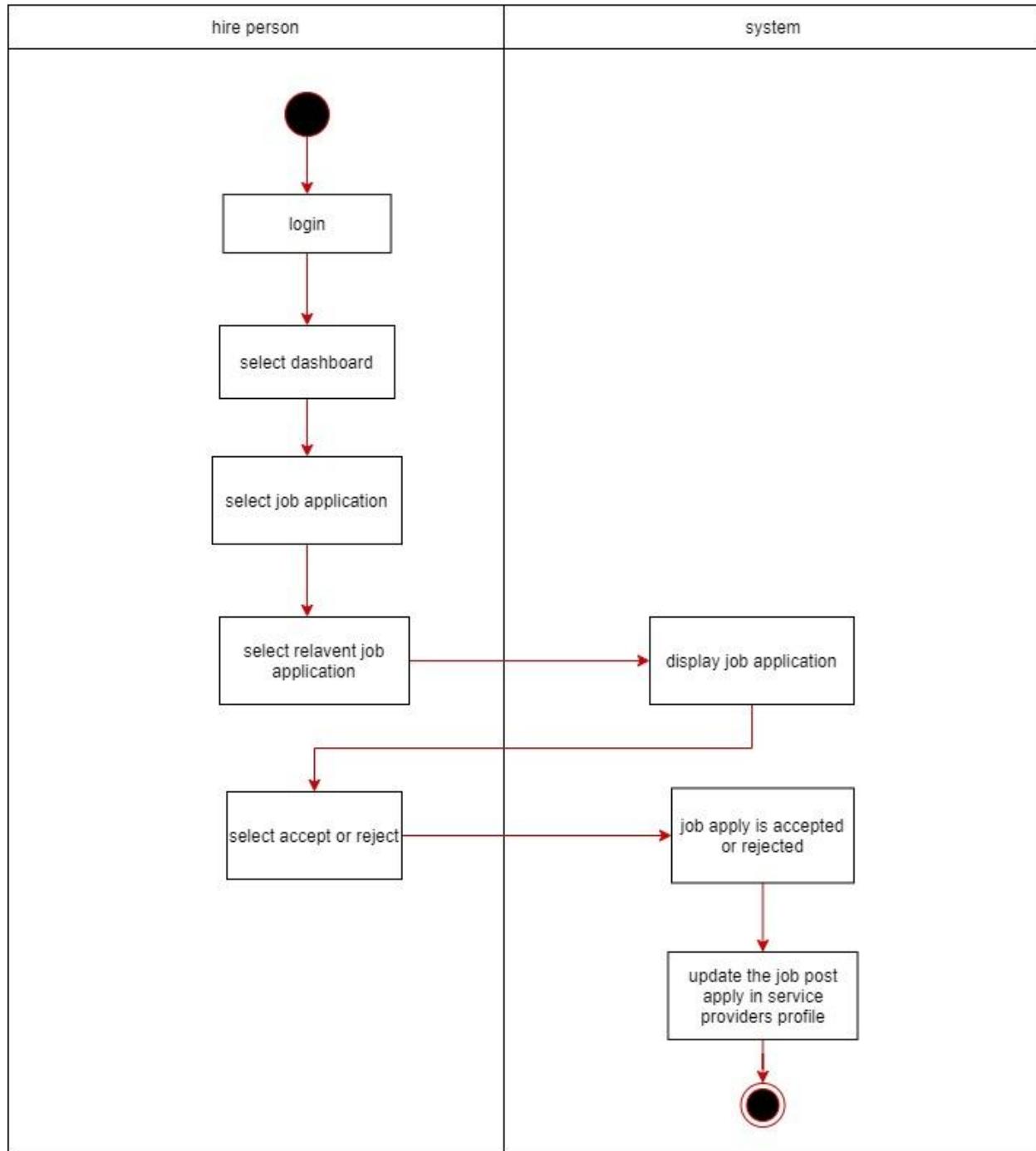
### Delete Job Post, Achievement Post

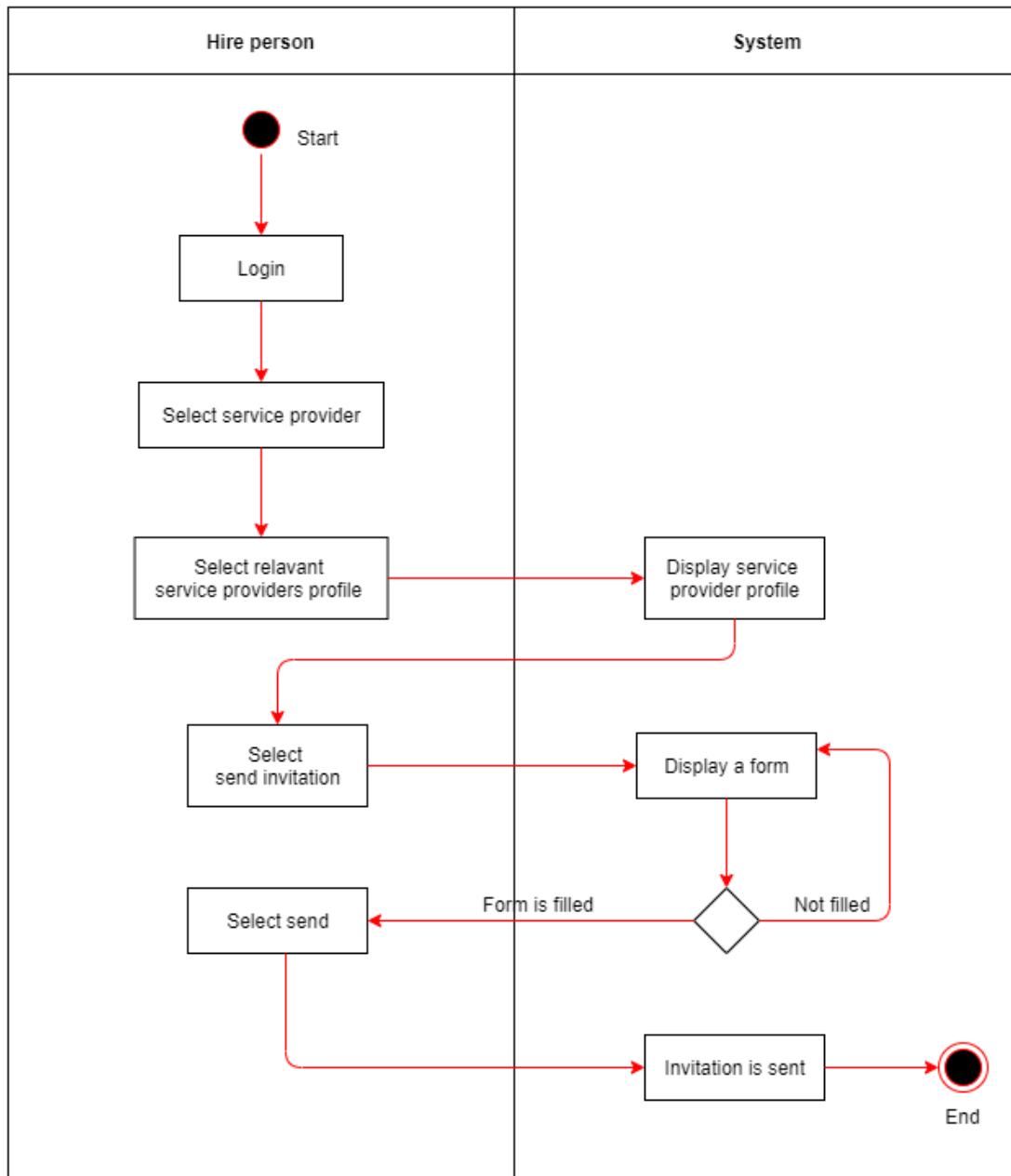


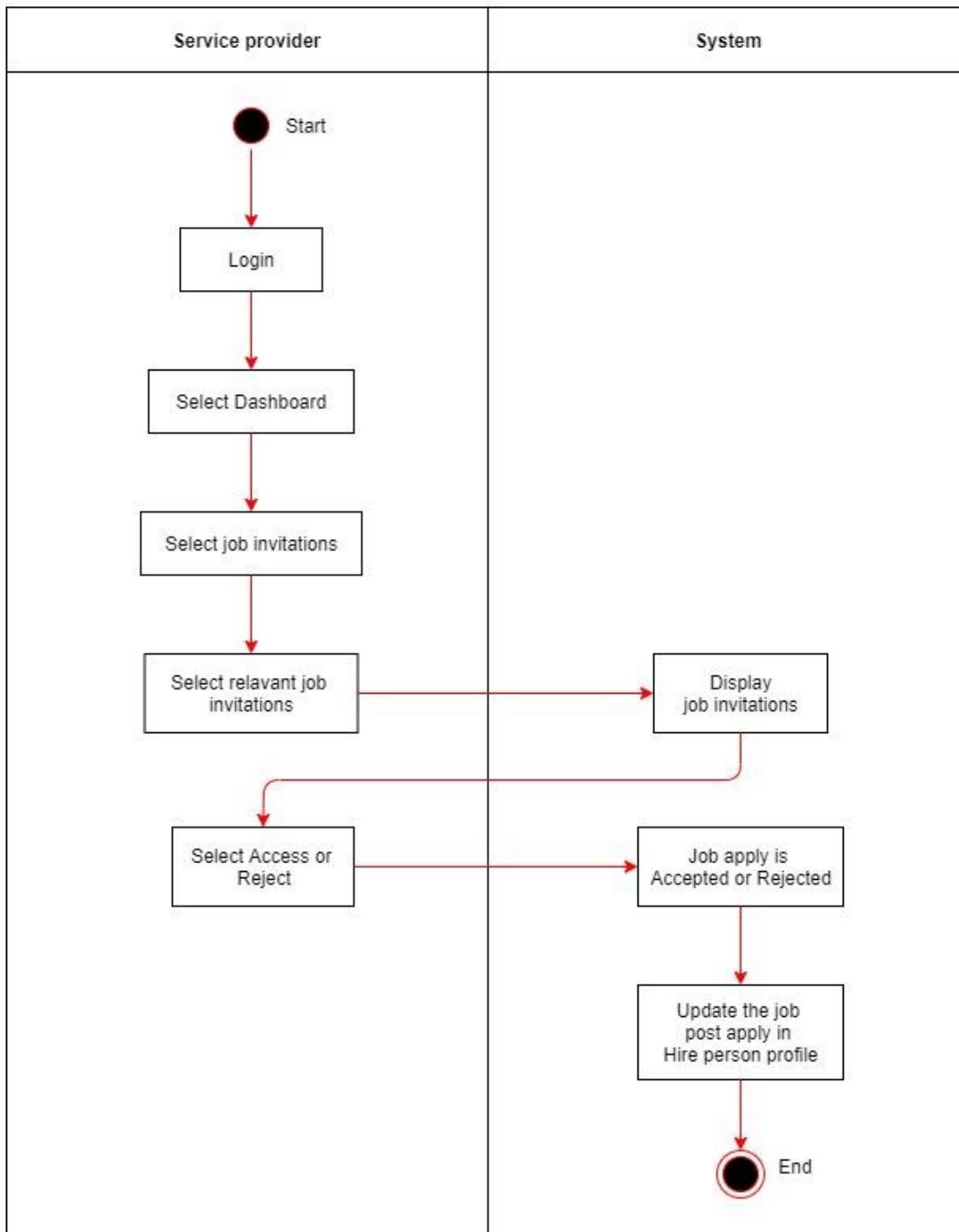
### View Job Post - Service Providers

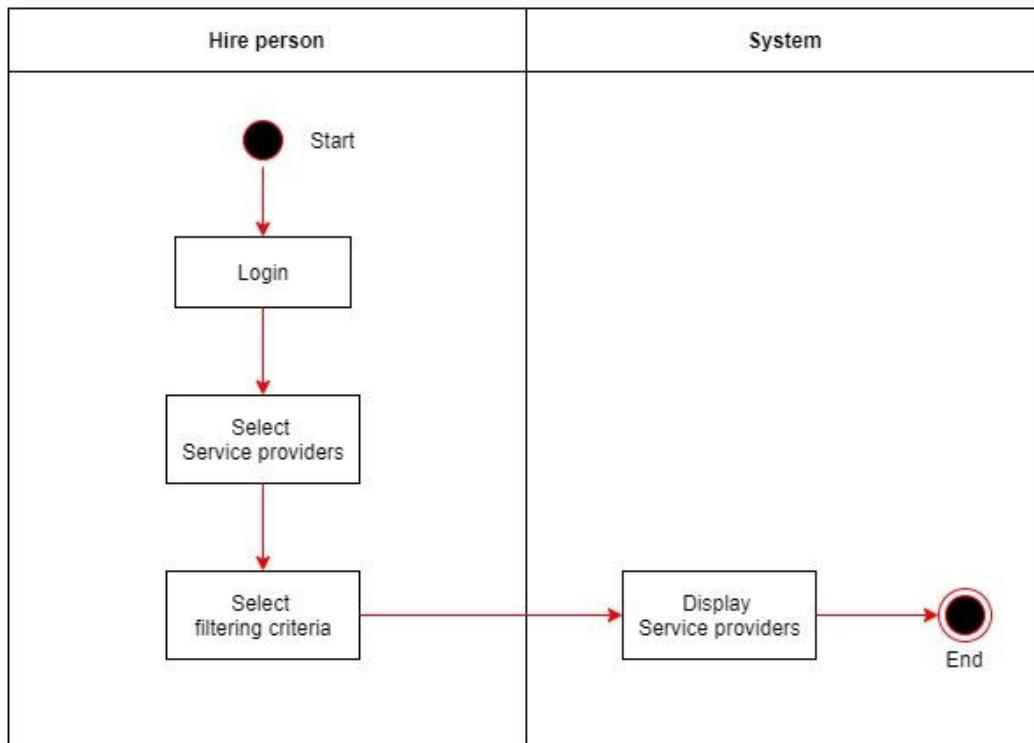


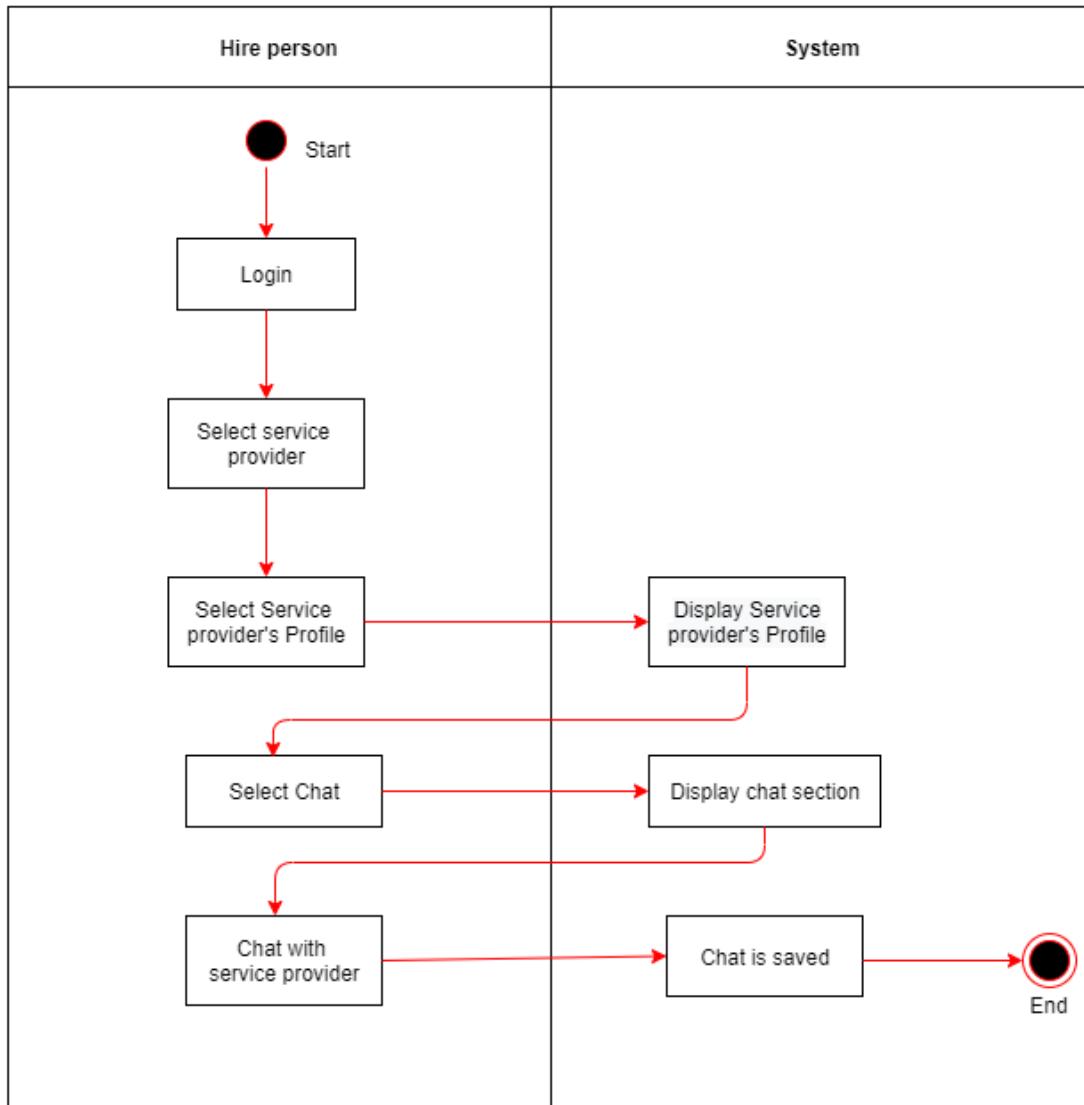
**Apply for job post - service provider**

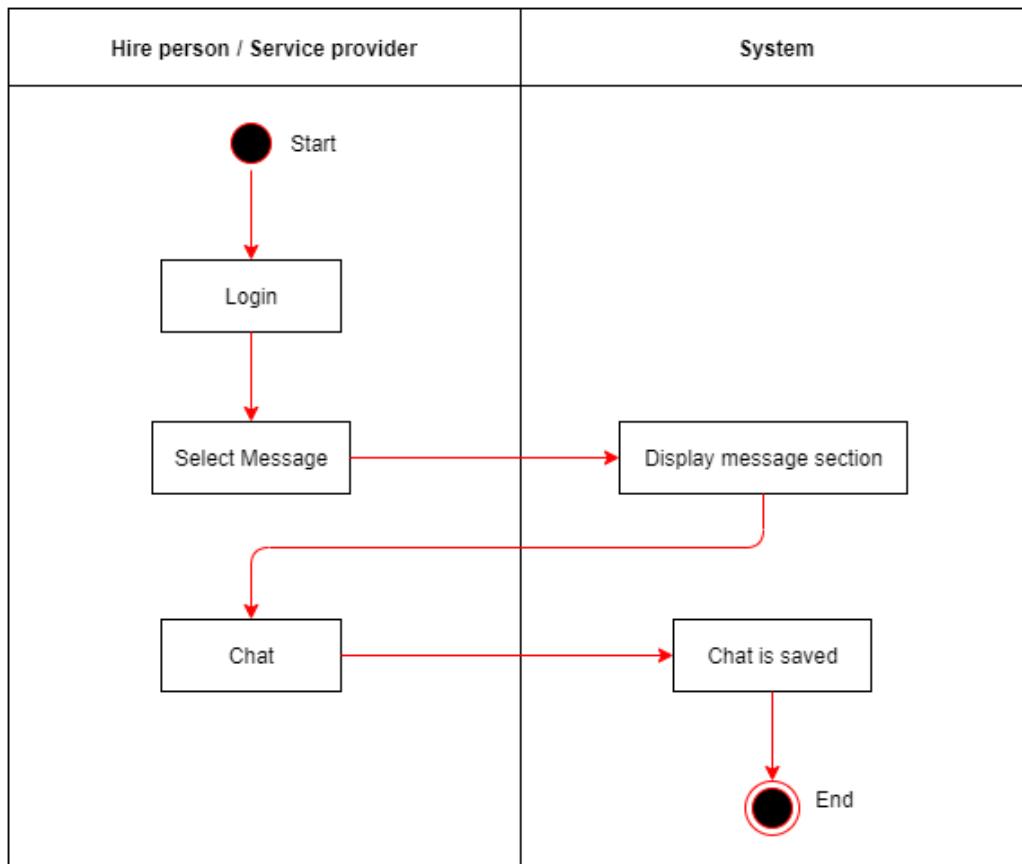
**Accept or reject job apply for a post - hire person**

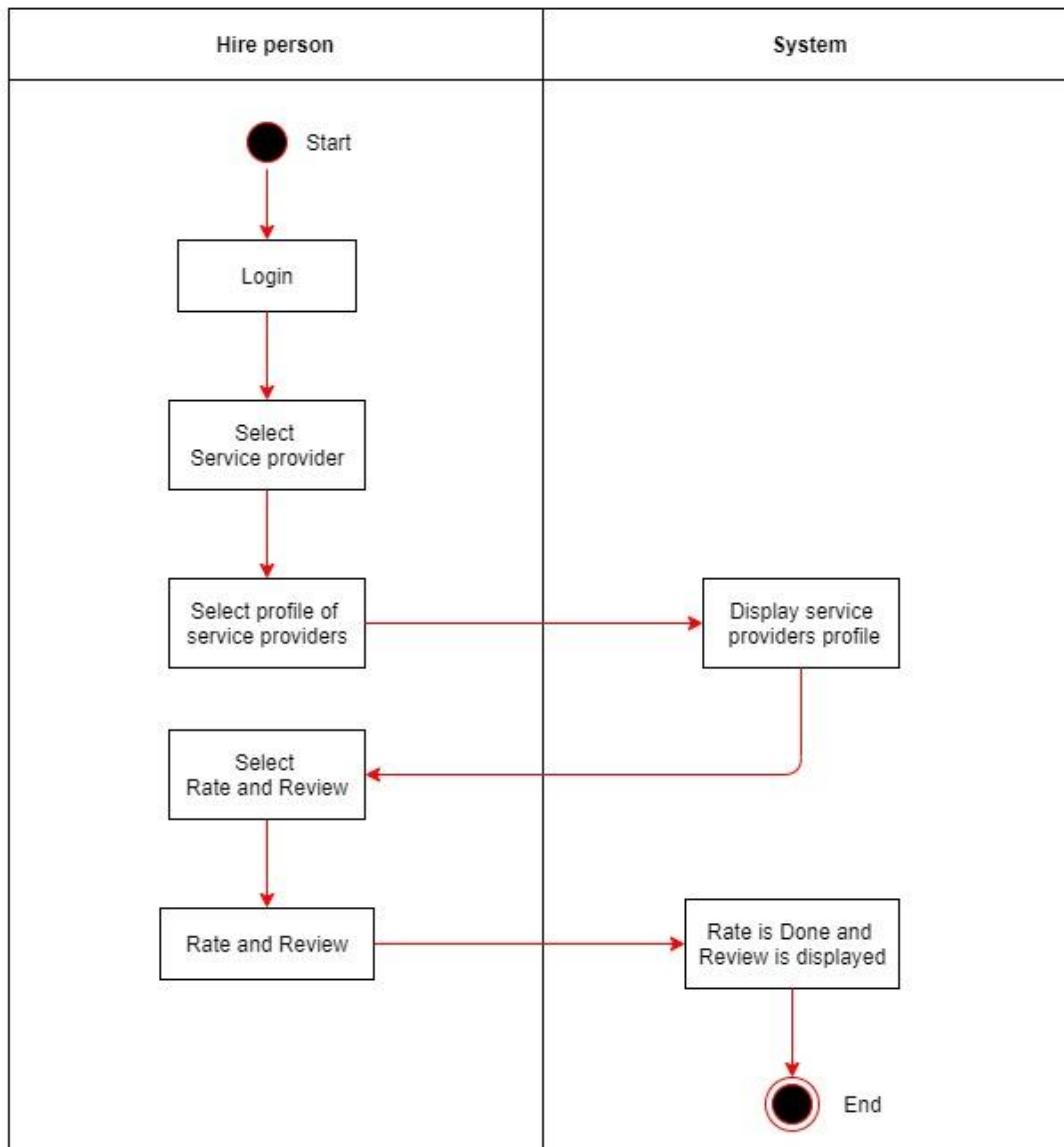
**Send Invitation for the Service Provider - Hire Person**

**Accept or Reject Job Invitation - Service Provider**

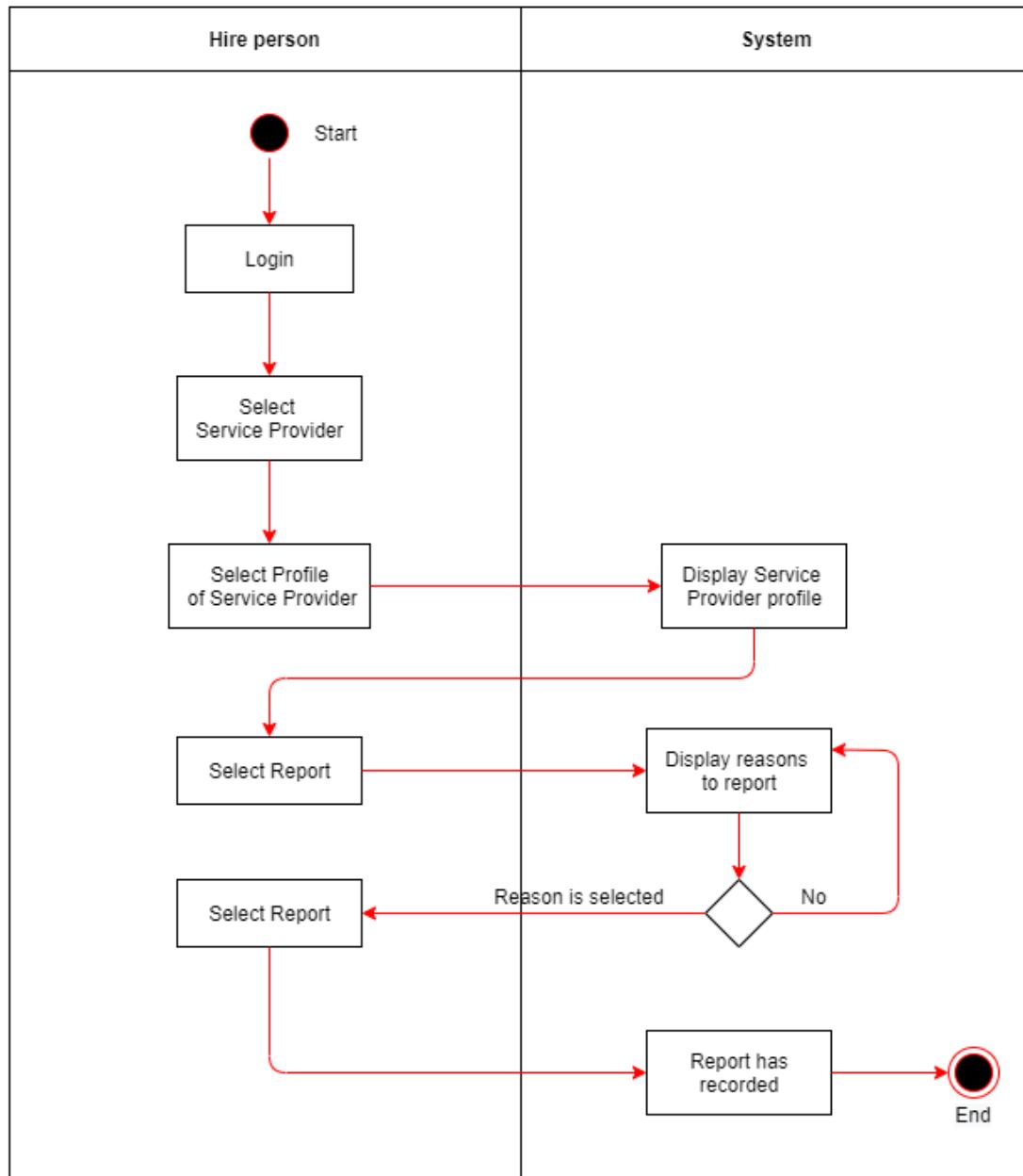
**View Service Providers - Hire Person**

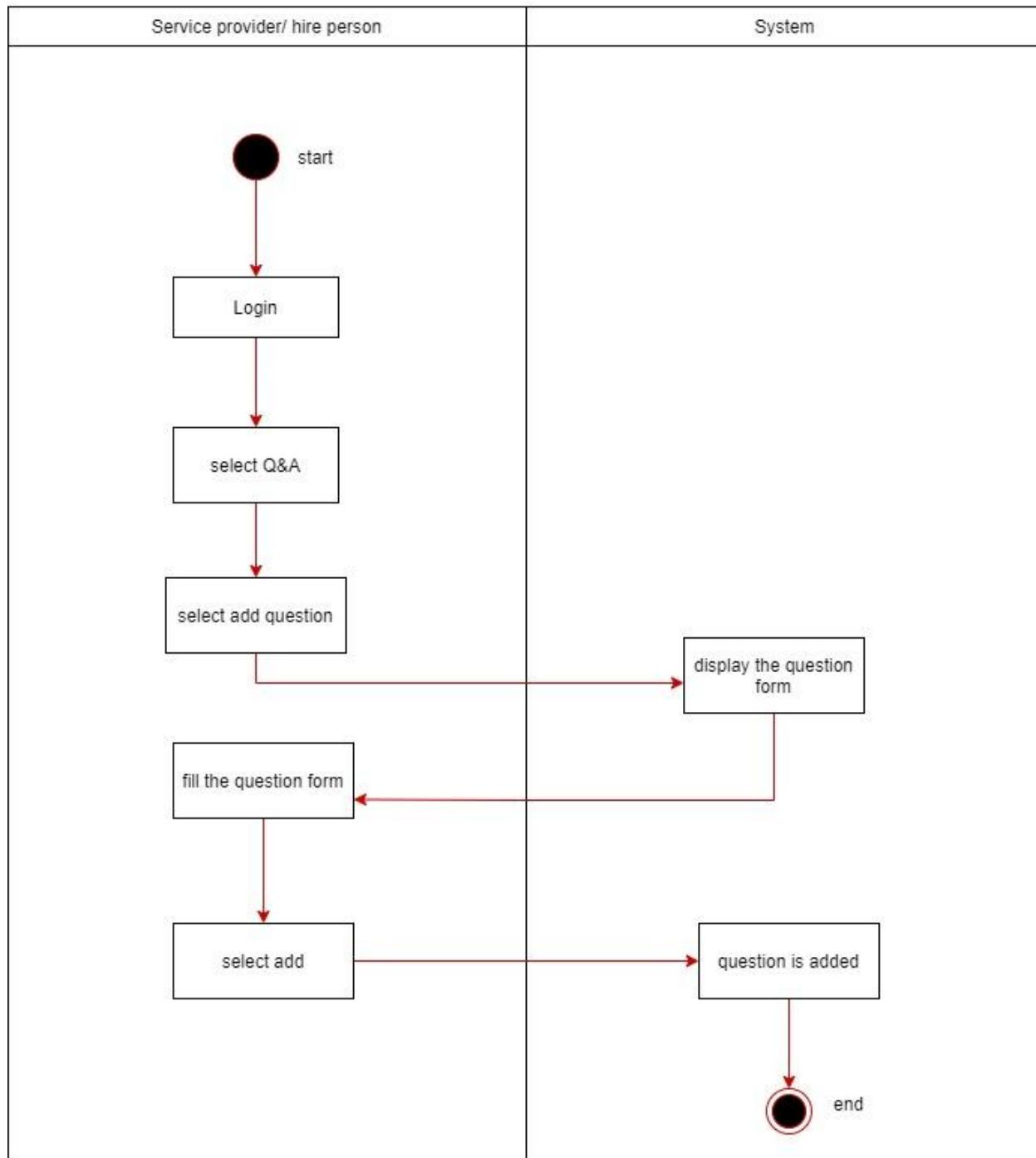
**Chat with Service Provider - Hire Person**

**Chat with Co-Admin - Hire Person or Service provider**

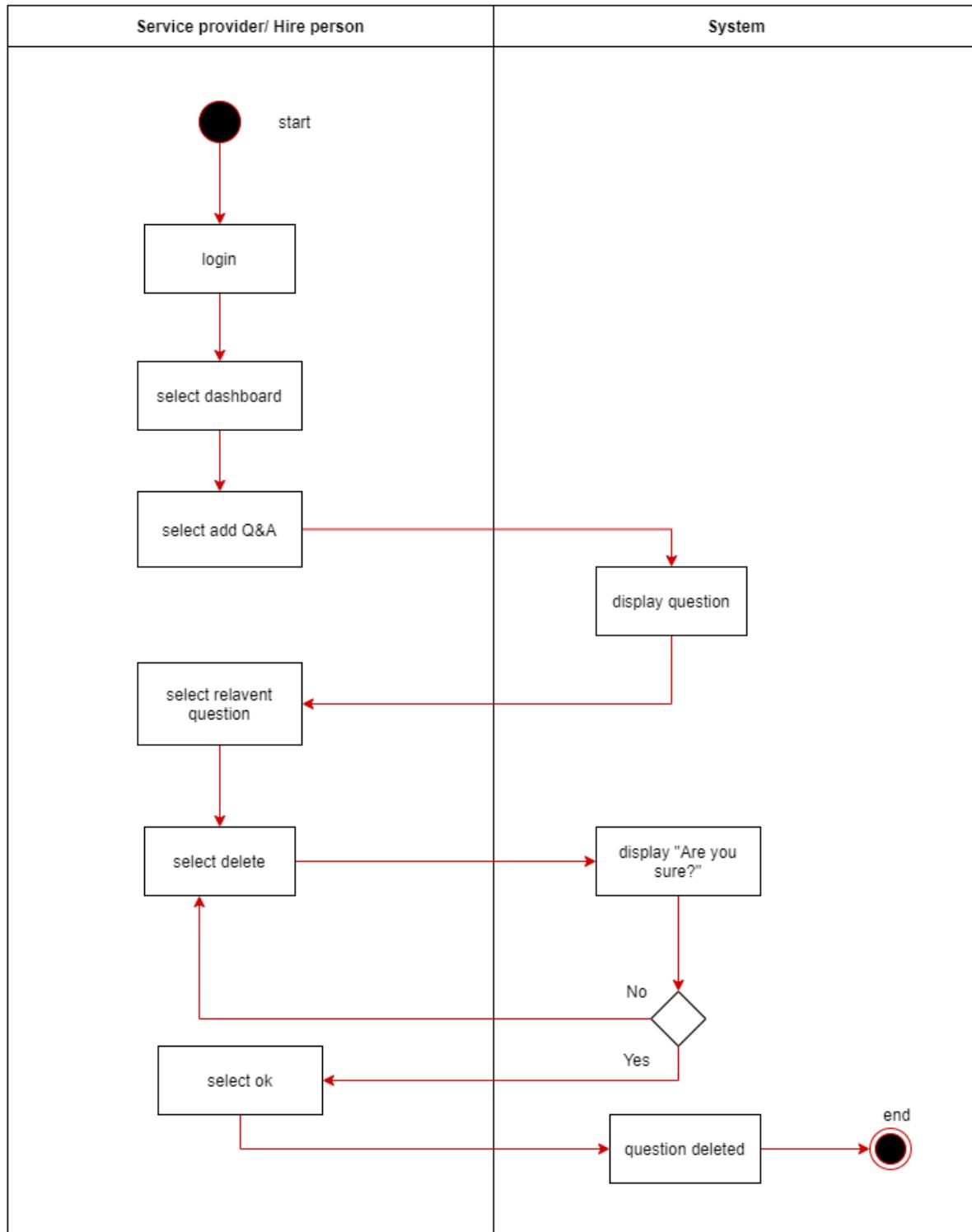
**Rate and Review Service Providers - Hire Person**

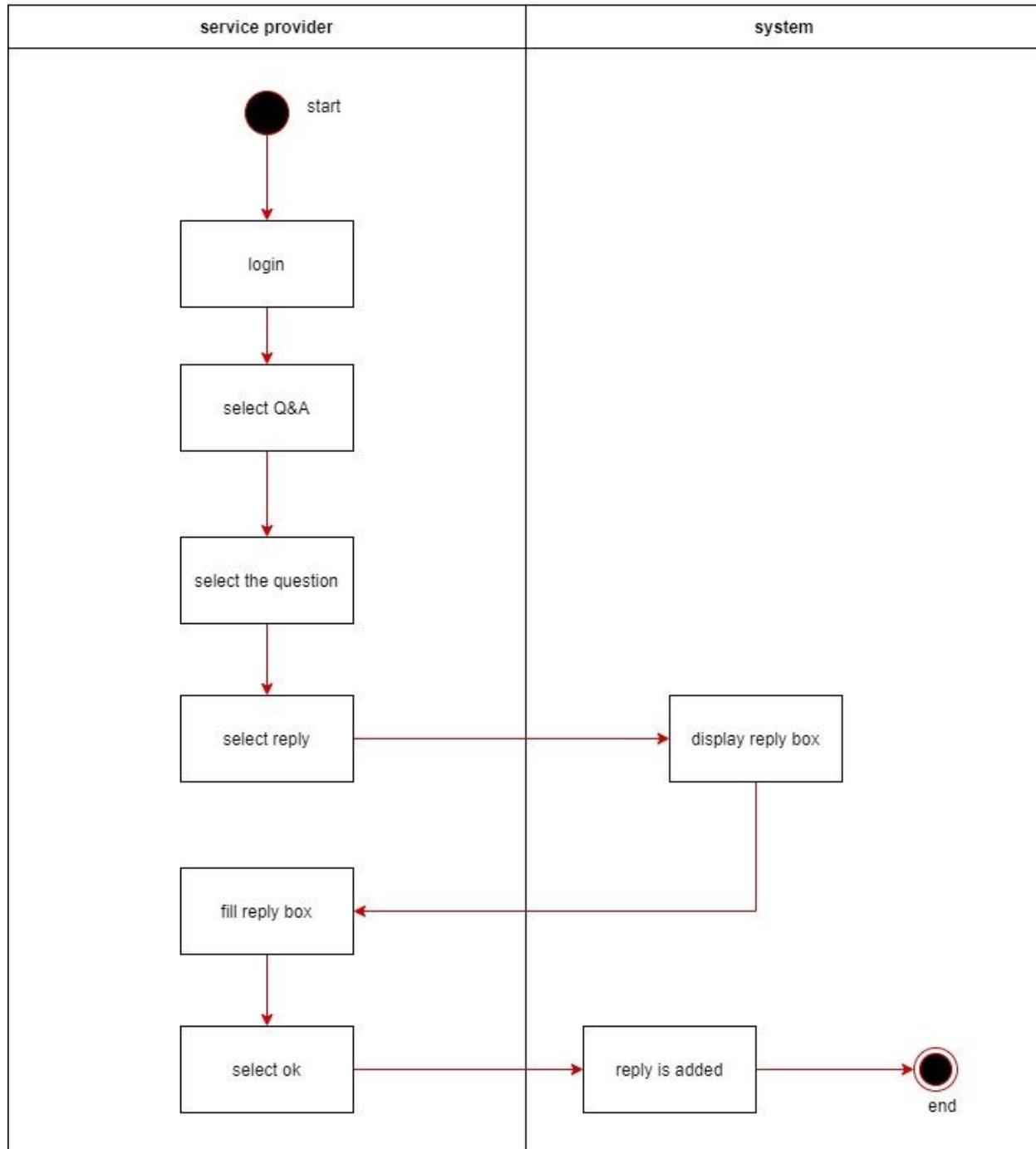
### Report Service Provider - Hire Person

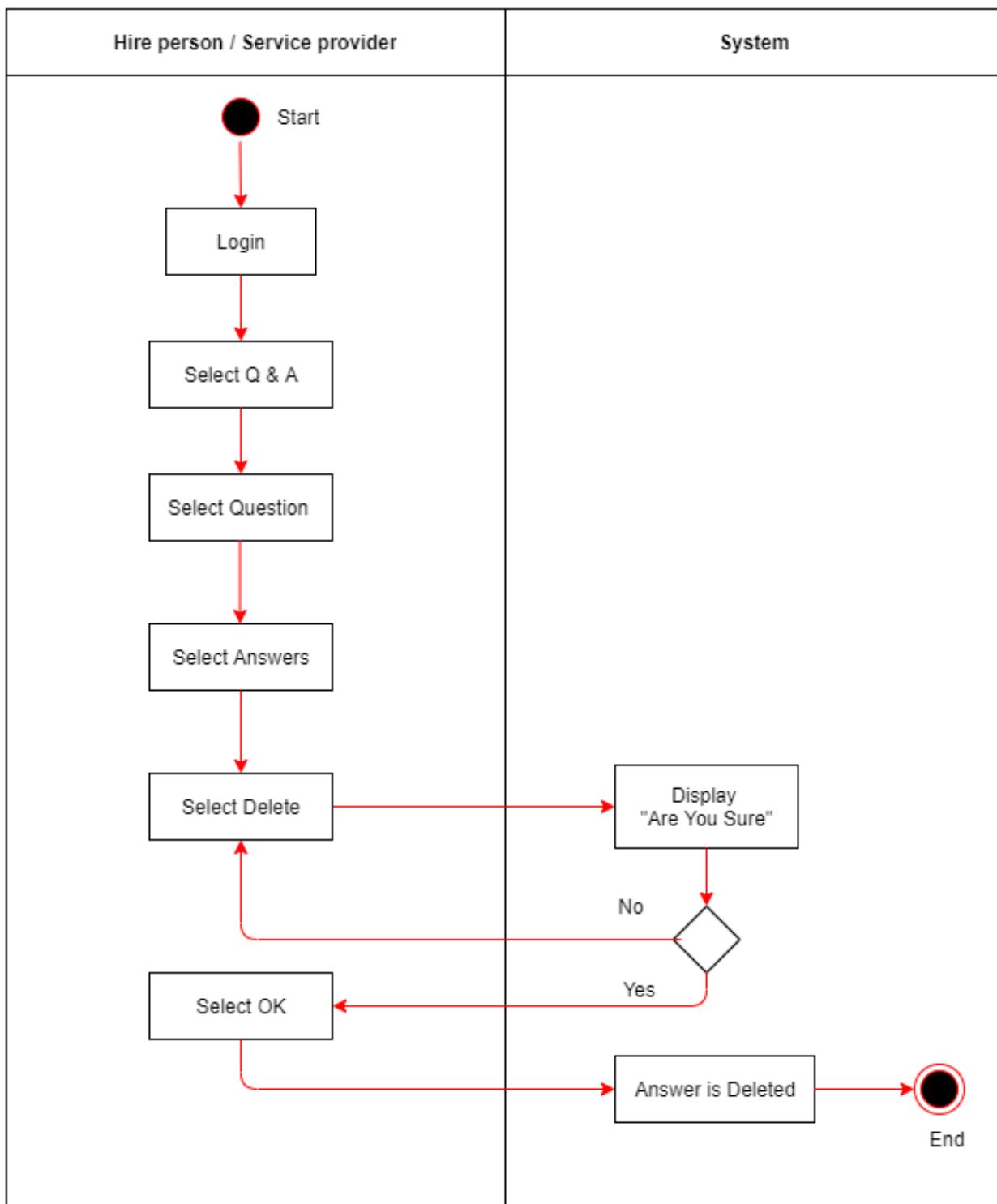


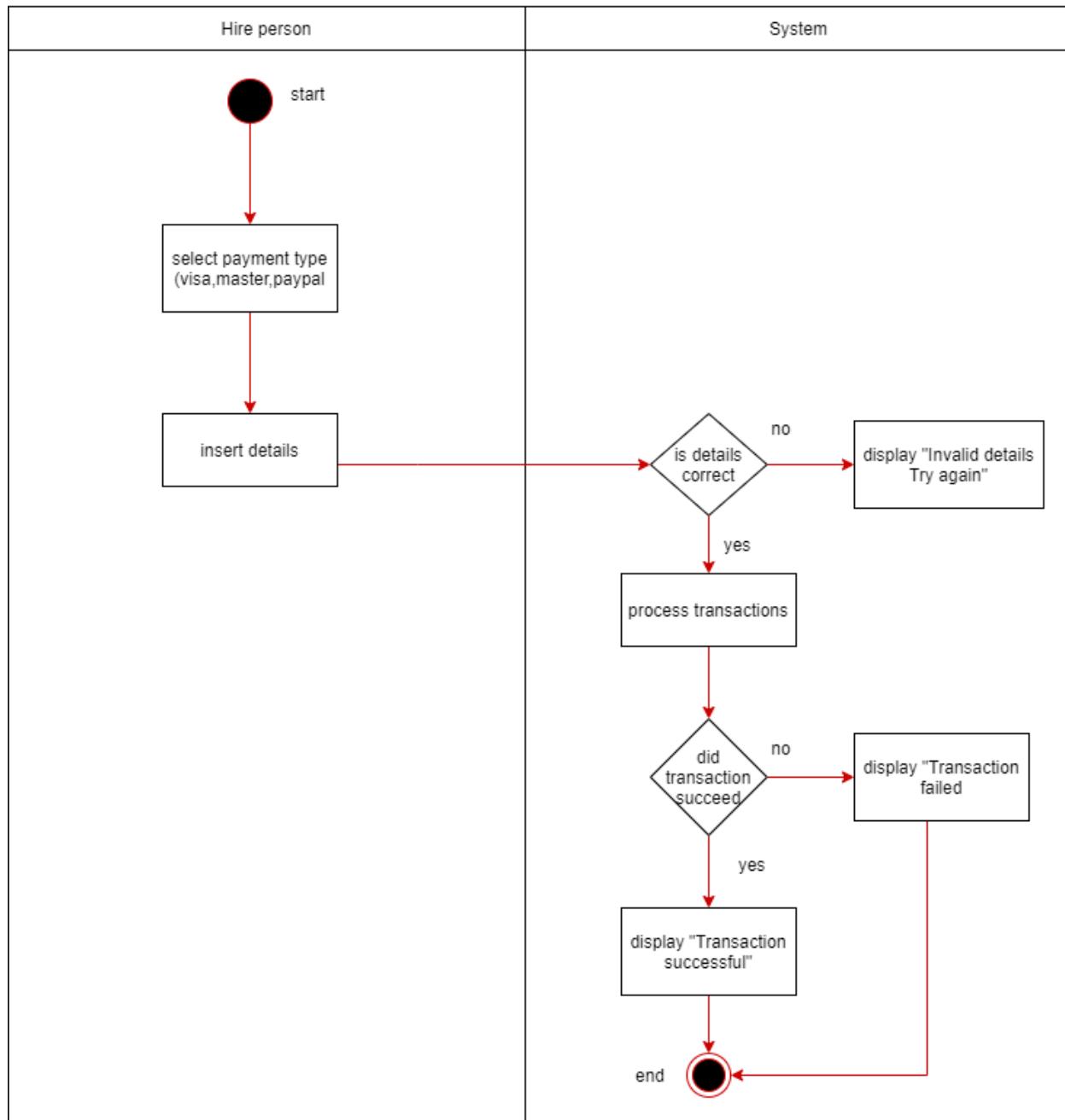
**Add Question - Service provider, Hire person**

### Delete question - Service provider, Hire person

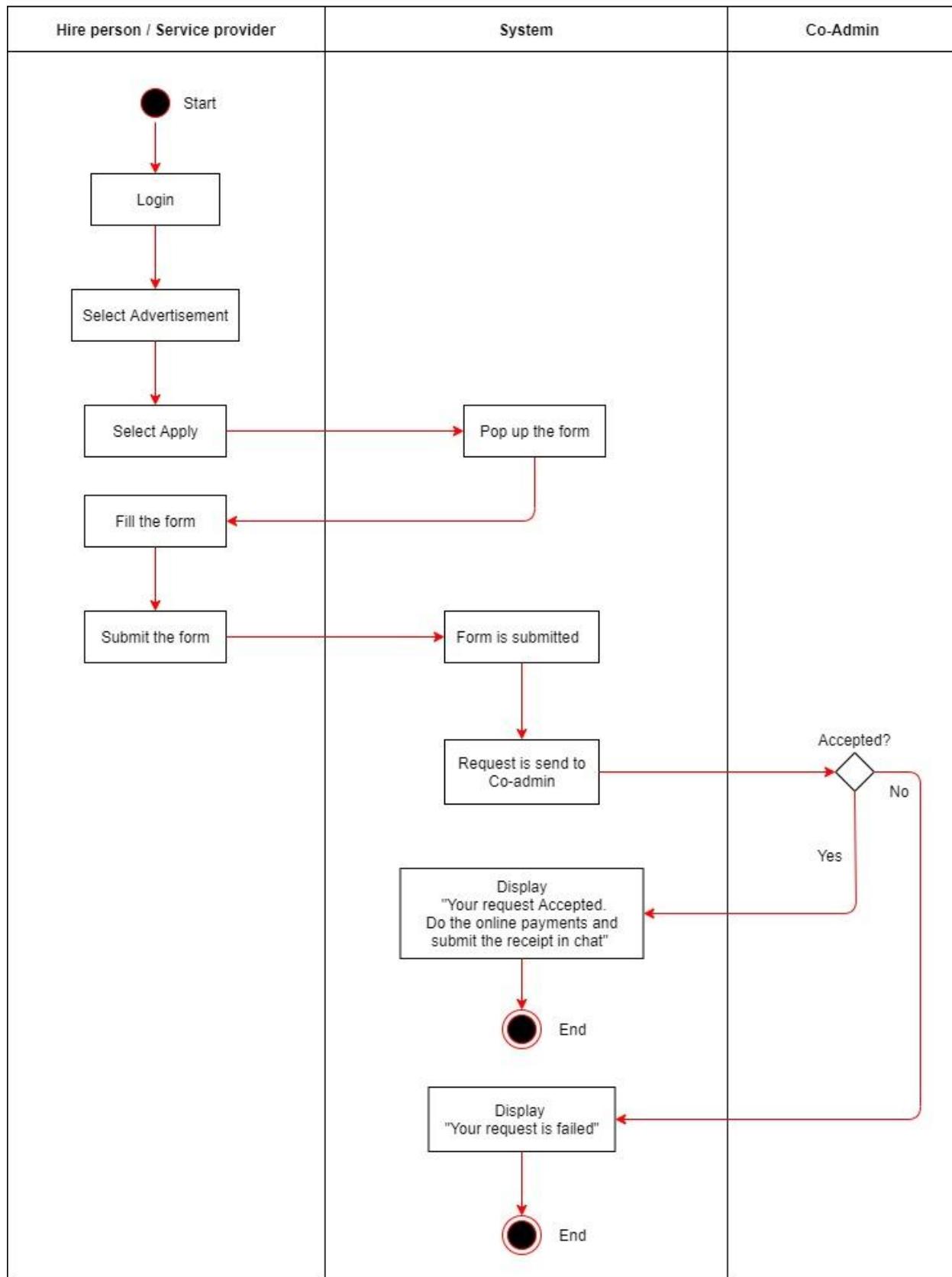


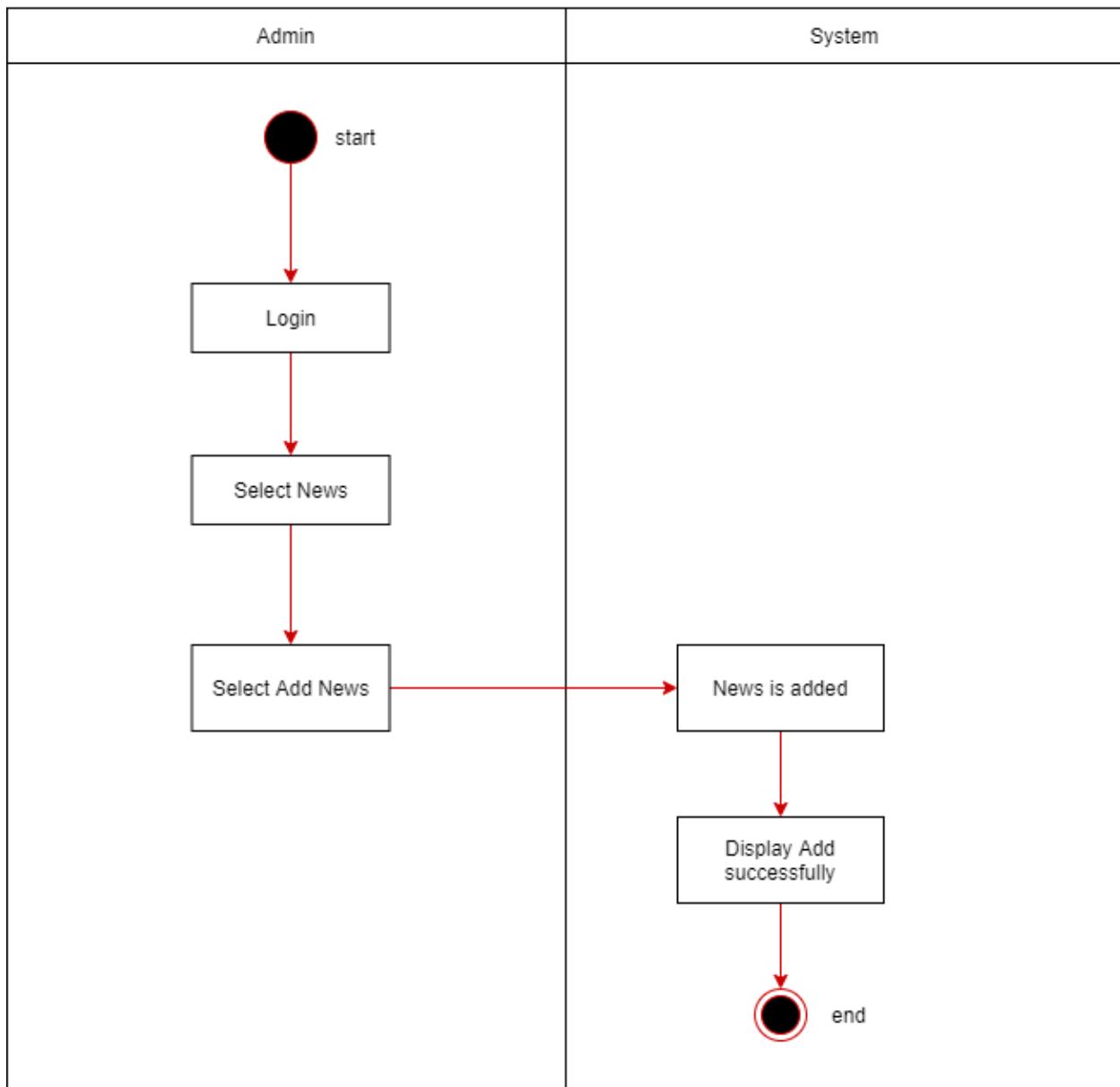
**Add answers - service provider**

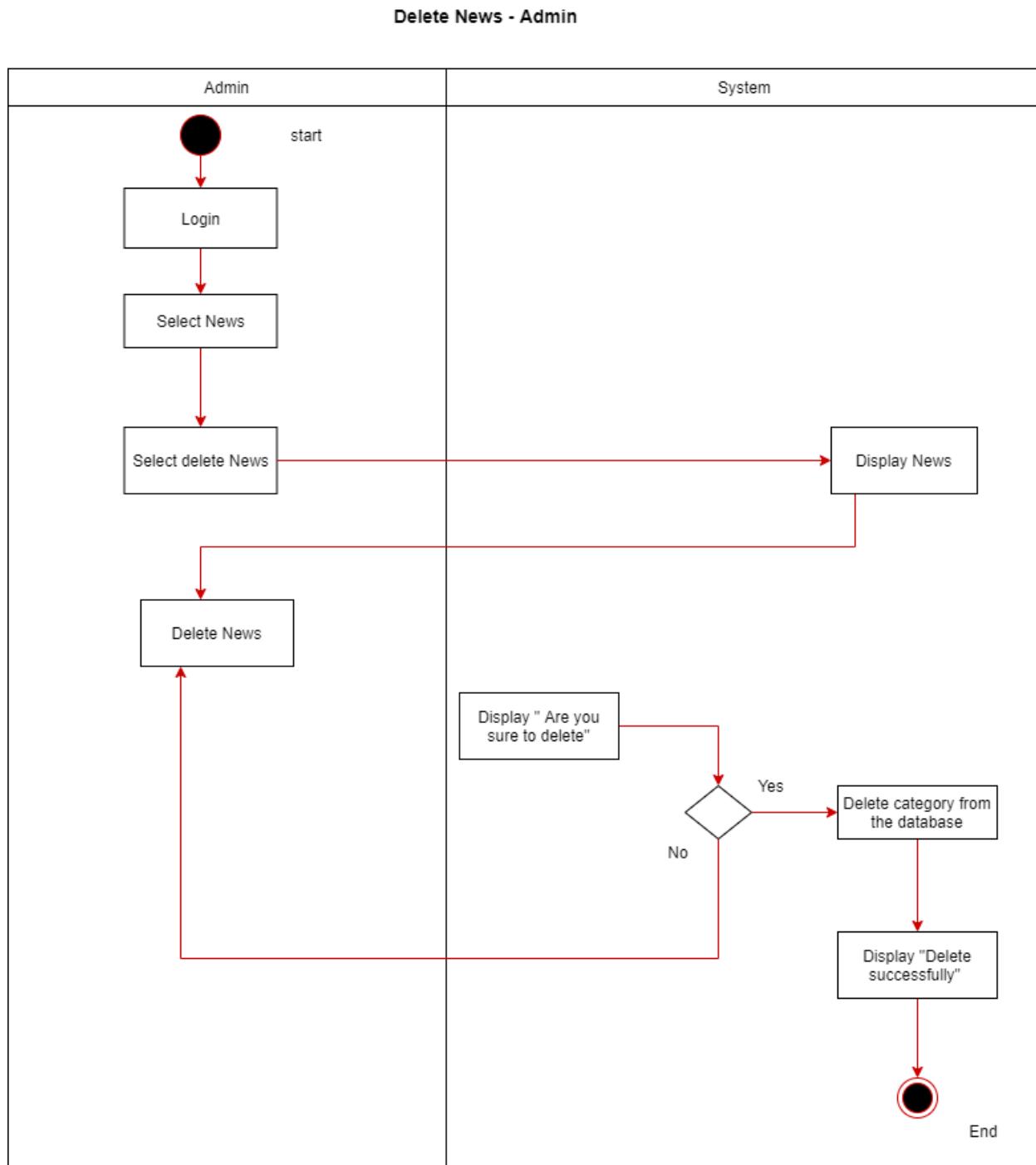
**Delete Answers - Hire Person, Service Provider**

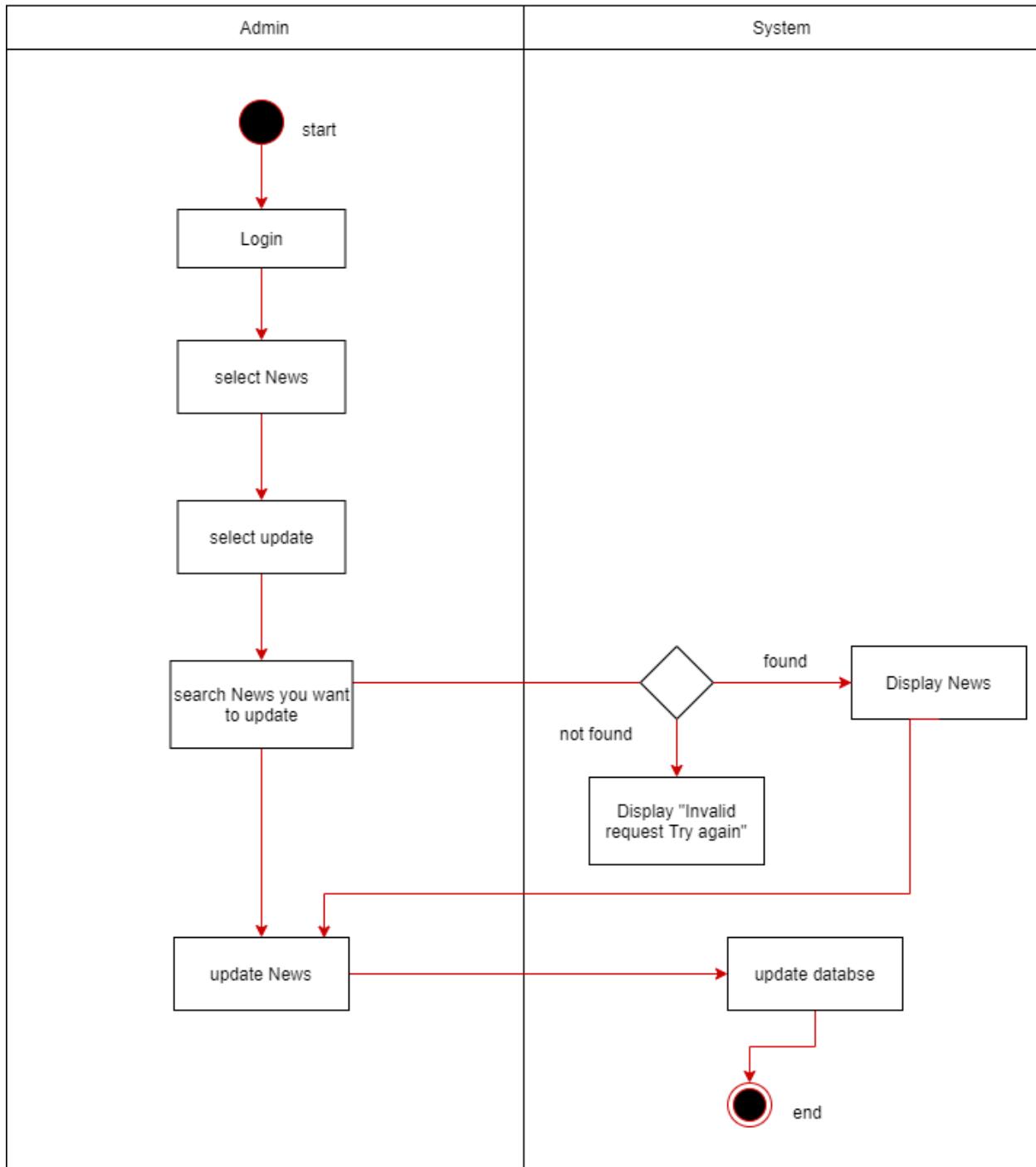
**Online Advance Payment - Hire Person**

### Ask for a Advertisement - Hire Person, Service Provider

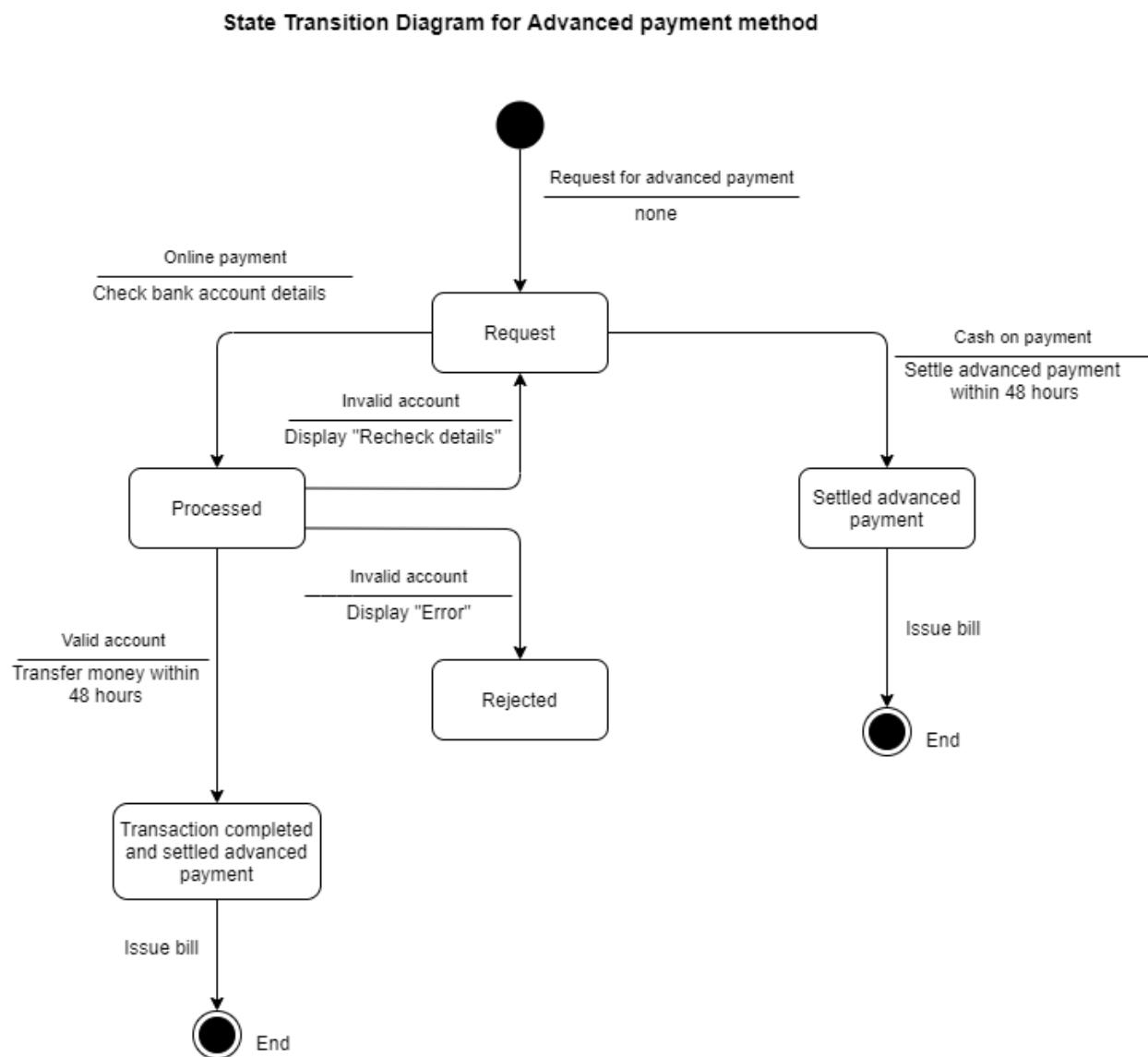


**Add News - Admin**



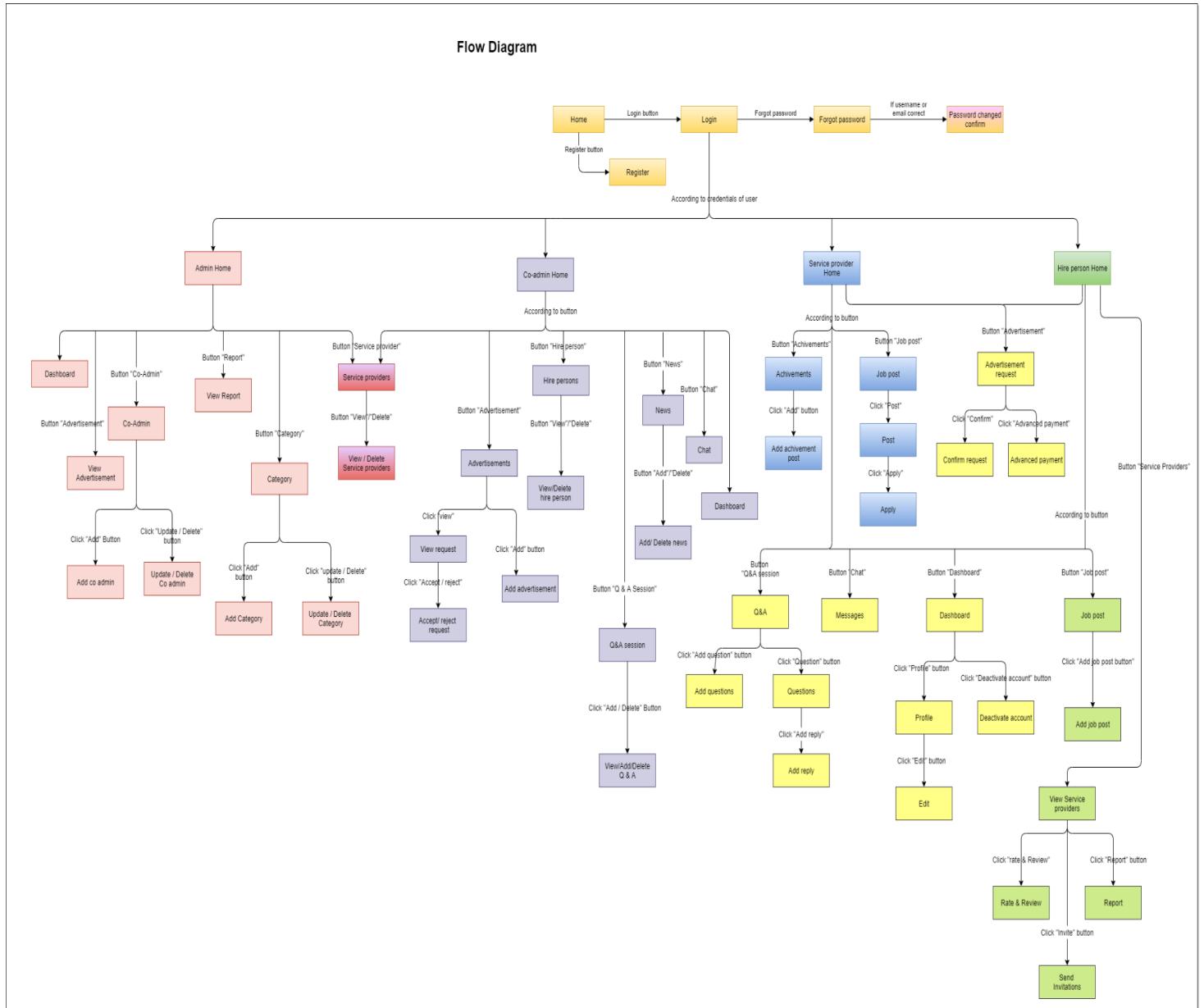
**Update News - Admin**

## 5.5) State Transition Diagrams



## 6) User Interface Flow Diagram and Wireframes

### 6.1) Flow Diagram



<https://app.diagrams.net/#G1AHkXImDhWudXkI-njtInVVqMgj6JrD01>

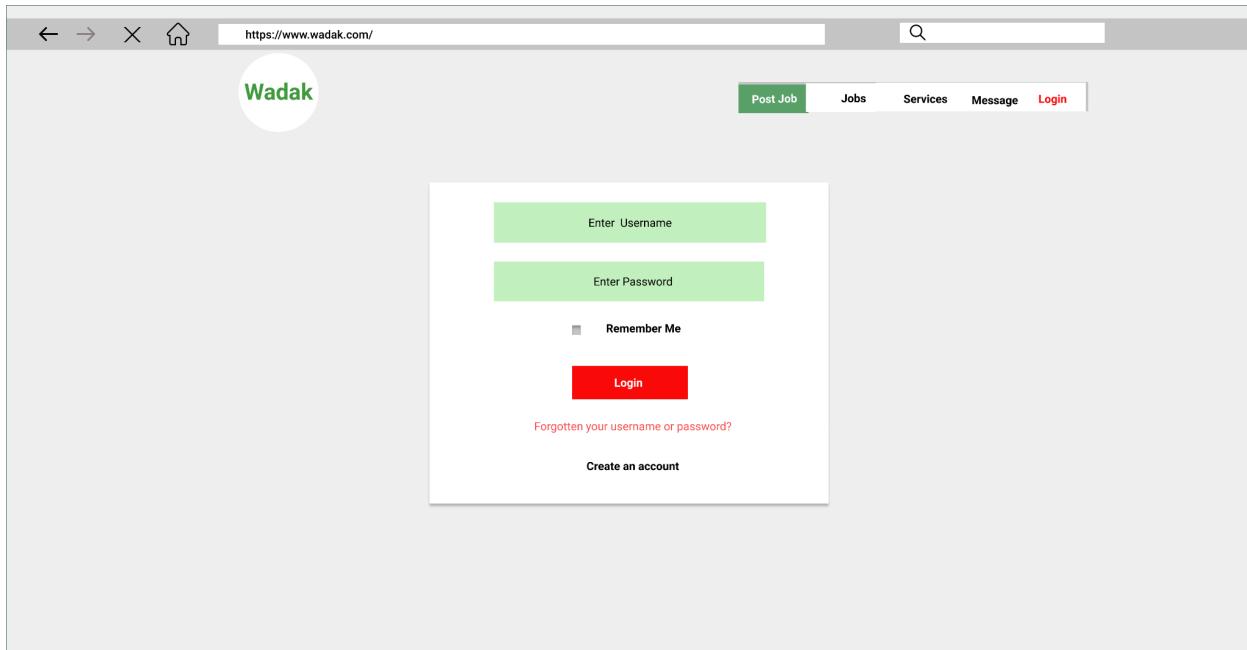
## 6.2) Wireframes

### Home

The wireframe for the Wadak Home page includes the following components:

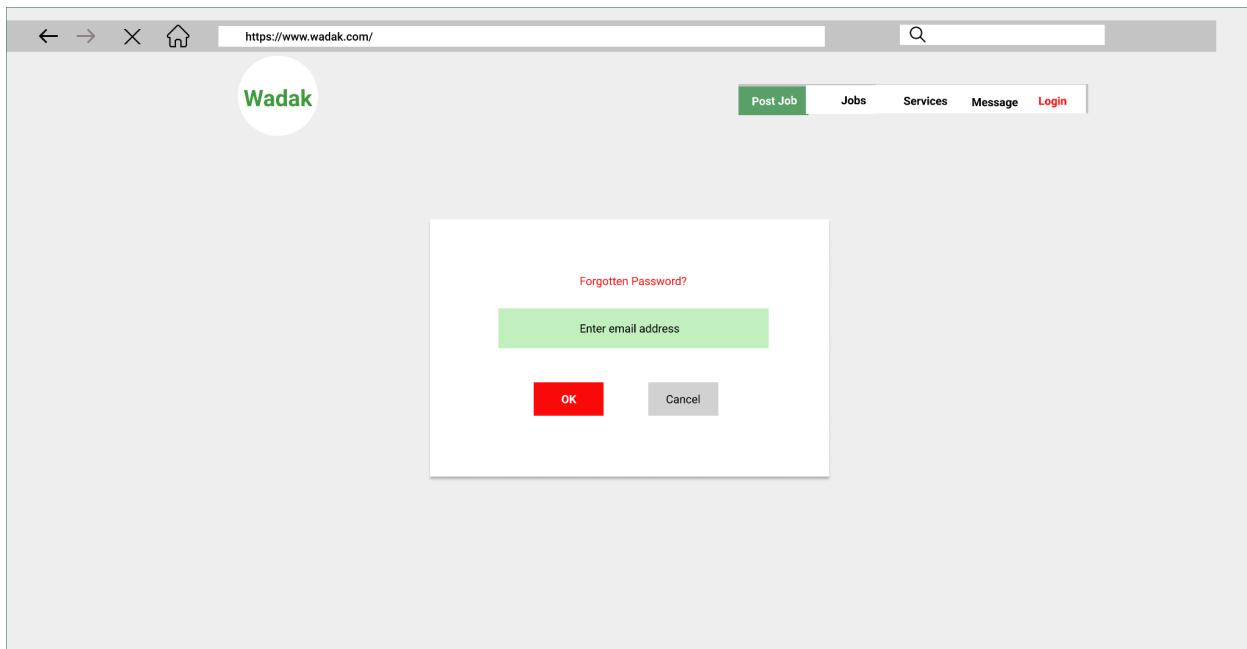
- Header:** A navigation bar with icons for back, forward, search, and a home icon. The URL <https://www.wadak.com/> is displayed.
- Top Navigation:** A menu bar with links for Post Job, Jobs, Services, a bell icon for Messages, and Login.
- Content Area:**
  - Headings:** Two large green rectangular boxes labeled "Headings".
  - Job post:** A rounded rectangular button labeled "Job post".
  - Post Job:** A green rounded rectangular button labeled "Post Job".
  - Top Service Providers:** Three rounded rectangular boxes labeled "Image".
  - Register Now:** A green rounded rectangular button labeled "Register Now".
- Footer:**
  - Wadak:** The brand name.
  - Links:** Terms & Conditions, Privacy Policy, About us, and FAQ.
  - Stay Connected!**: Social media icons for Facebook, Instagram, LinkedIn, and Twitter.
  - Newsletter Sign-up:** Fields for Email, First Name, and Last Name.
  - Powered by Group18:** A grey footer bar with the text "Powered by Group18".

## Login



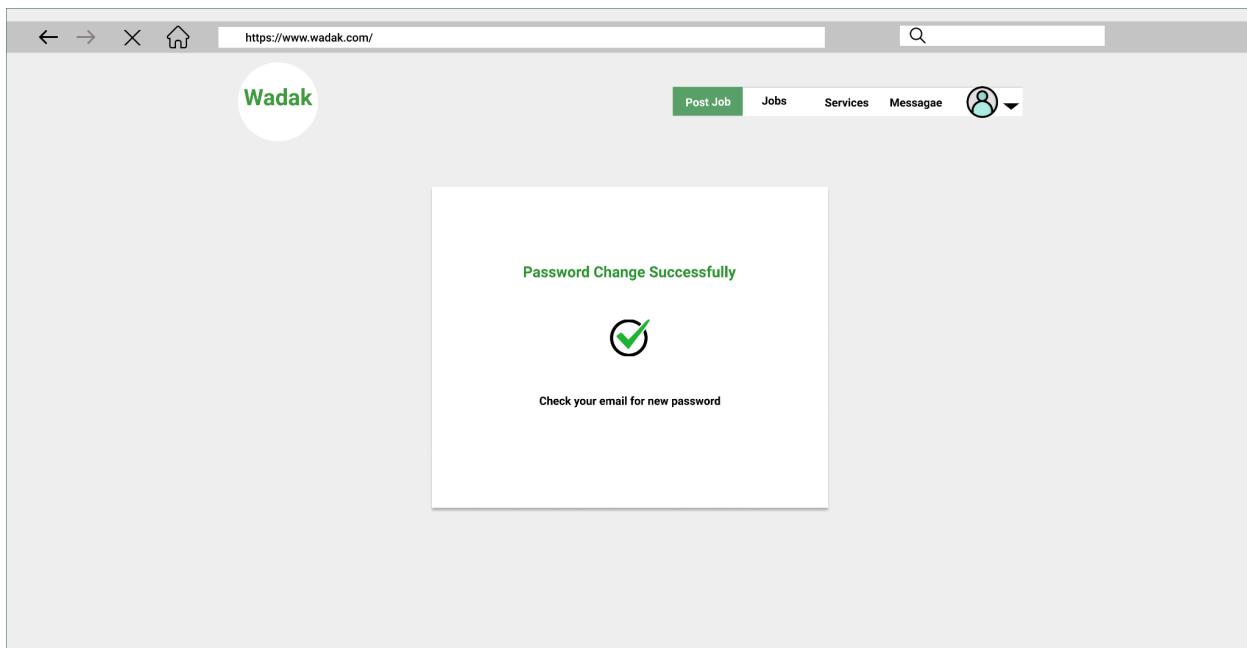
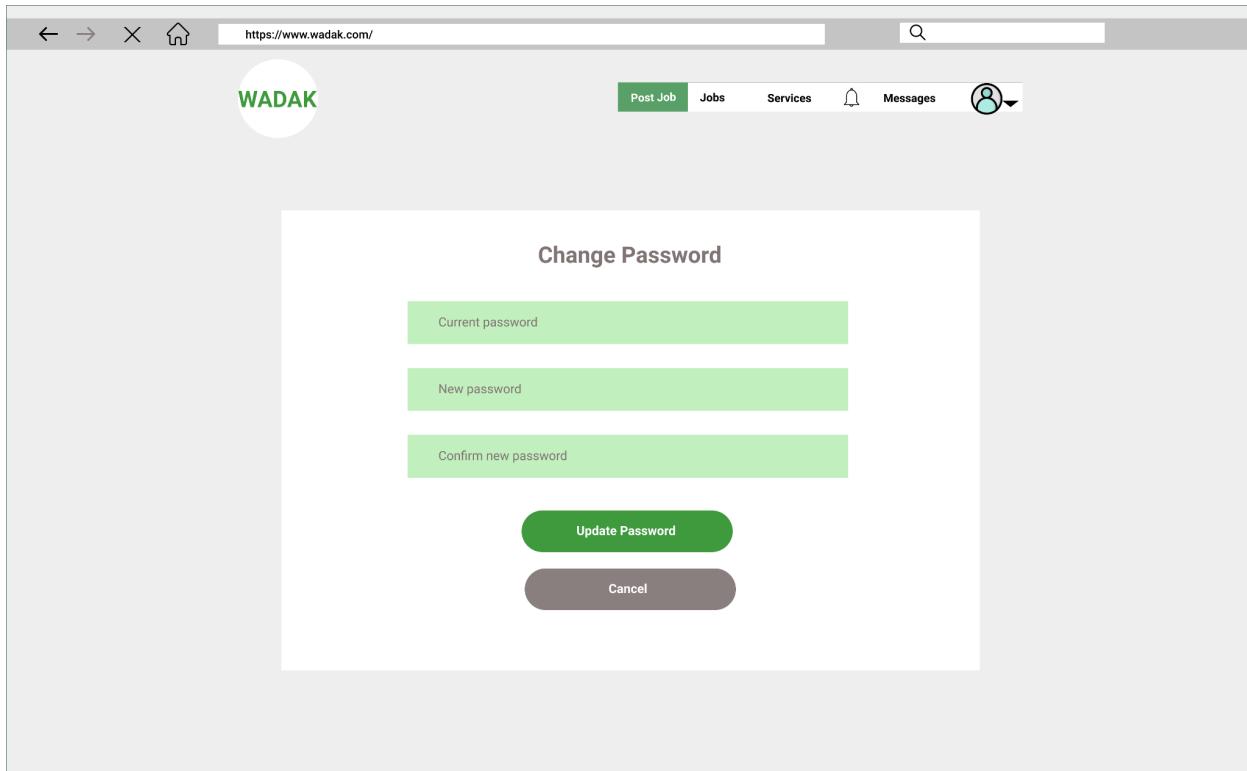
The screenshot shows the Wadak login interface. At the top, there is a navigation bar with links for "Post Job", "Jobs", "Services", "Message", and "Login". Below the navigation bar is a search bar. On the left side, there is a circular logo with the word "Wadak" in green. The main area contains a login form with two input fields: "Enter Username" and "Enter Password", both highlighted in green. Below these fields is a "Remember Me" checkbox. A red "Login" button is centered below the password field. At the bottom of the form, there are two links: "Forgotten your username or password?" and "Create an account".

## Forgot password



The screenshot shows the Wadak forgot password interface. At the top, there is a navigation bar with links for "Post Job", "Jobs", "Services", "Message", and "Login". Below the navigation bar is a search bar. On the left side, there is a circular logo with the word "Wadak" in green. The main area contains a modal dialog box. Inside the dialog, the text "Forgotten Password?" is displayed above an input field labeled "Enter email address", which is highlighted in green. At the bottom of the dialog are two buttons: a red "OK" button and a grey "Cancel" button.

## Change password



## Registration

Registration

First Name:

Last Name:

Date of Birth:

Address:

Email Address:

Contact:

Enter Description:

I accept the Terms of Service\* or I accept the Privacy Statement\*. Click here to indicate that you have read and agree to the terms presented in the Terms and Conditions agreement.

## Login main page

Select Category

Category All

8h ago

10 days ago

## User profile

The screenshot shows the WADAK user profile interface. At the top, there's a navigation bar with icons for back, forward, search, and a user profile icon. The URL https://www.wadak.com is displayed. Below the navigation is the WADAK logo and a 'Profile setting' section with a person icon and a plus sign. A green button labeled 'Become premium' is visible. The main profile area includes fields for 'Name' and 'Phone' with edit icons, a 'subscription' dropdown set to 'Add subscription ▾', a 'Badges' section showing one badge, and a 'Rating and reviews' section with a 5-star rating icon. Buttons for 'As service provider' and 'As Hire person' are also present.

## User dashboard

The screenshot shows the WADAK user dashboard. At the top, there's a navigation bar with icons for back, forward, search, and a user profile icon. The URL https://www.wadak.com is displayed. Below the navigation is the WADAK logo. The dashboard features a large green sidebar on the left containing a user profile picture and sections for 'Posted by me', 'Applied by me', and 'Invites for me'. The 'Posted by me' section includes filters for 'All' (checked), 'Open', 'Assigned', and 'Cancelled'. To the right of the sidebar, there are several cards: one for 'Applied by me' (with a person icon) and another for 'Invites for me' (with a document icon). The main content area is currently empty.

## View Service provider

Search by Name

Select Category

Category All

Name Category Address Telephone No

★★★★★

Trophy icon

[View Profile](#)

Name Category Address Telephone No

★★★★★

[View Profile](#)

## Apply for a job post

Post Job

Title  
Your job title

Description  
Enter your job details

Budget  
RS 0 .00

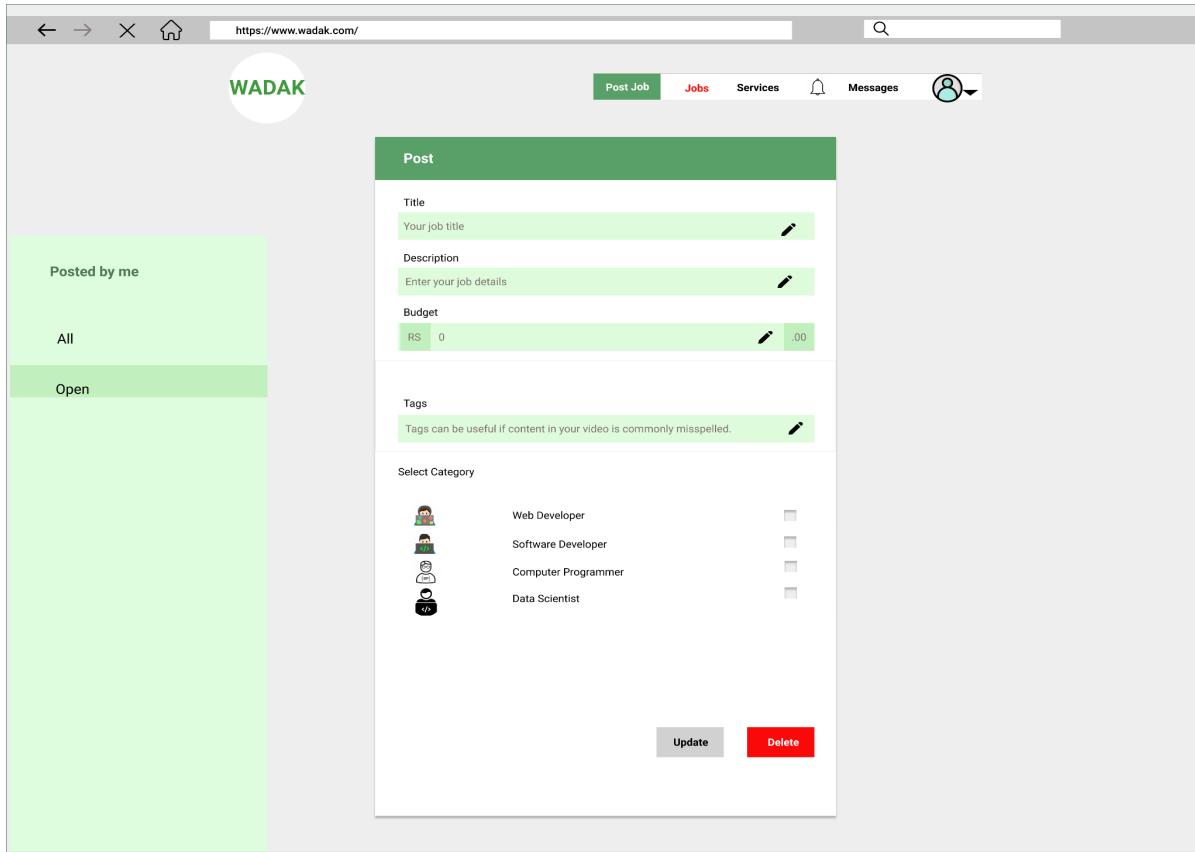
Tags  
Tags can be useful if content in your video is commonly misspelled.

Select Category

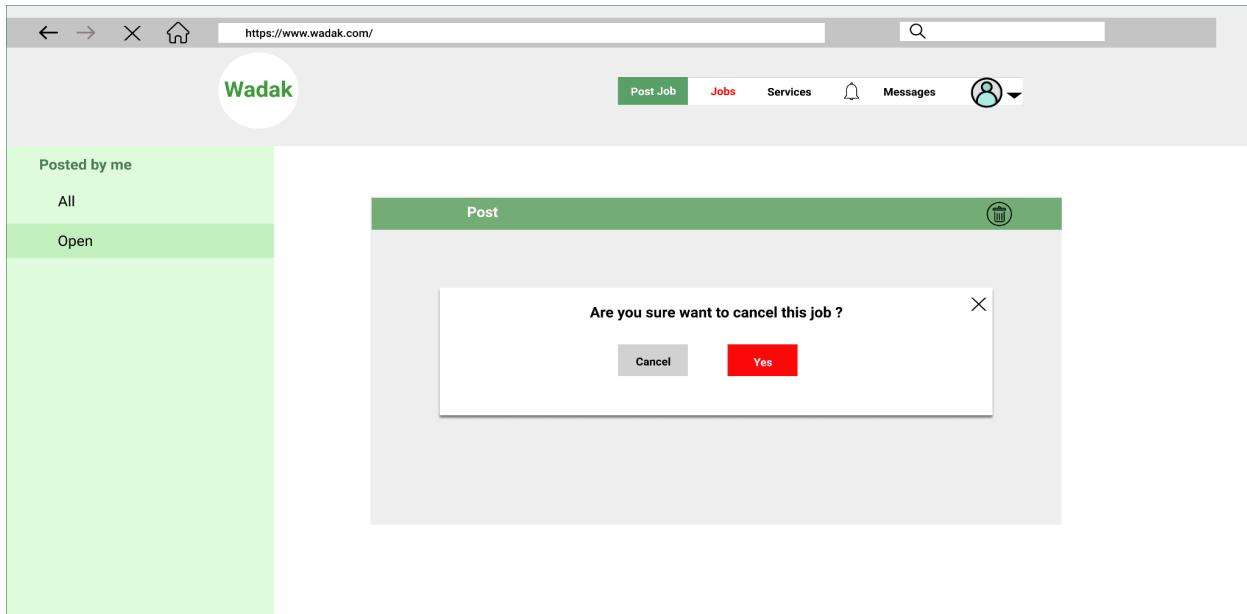
	Web Developer	<input type="checkbox"/>
	Software Developer	<input type="checkbox"/>
	Computer Programmer	<input type="checkbox"/>
	Data Scientist	<input type="checkbox"/>

[Cancel](#) [Post](#)

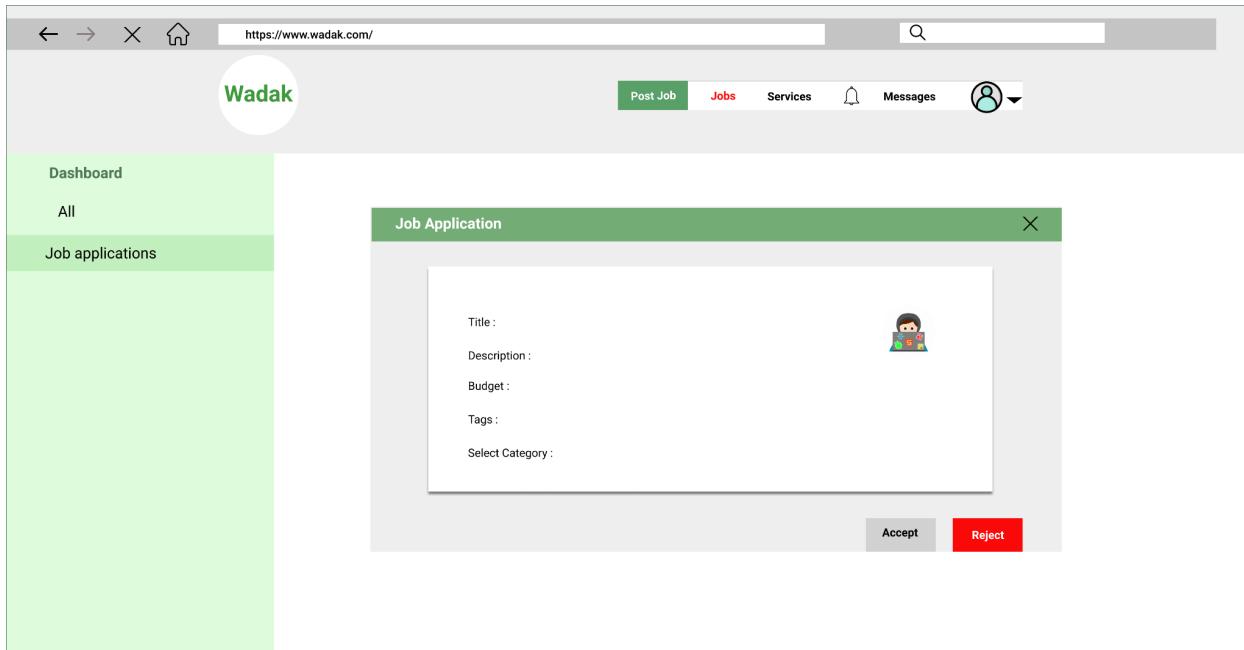
## Update or Delete job post



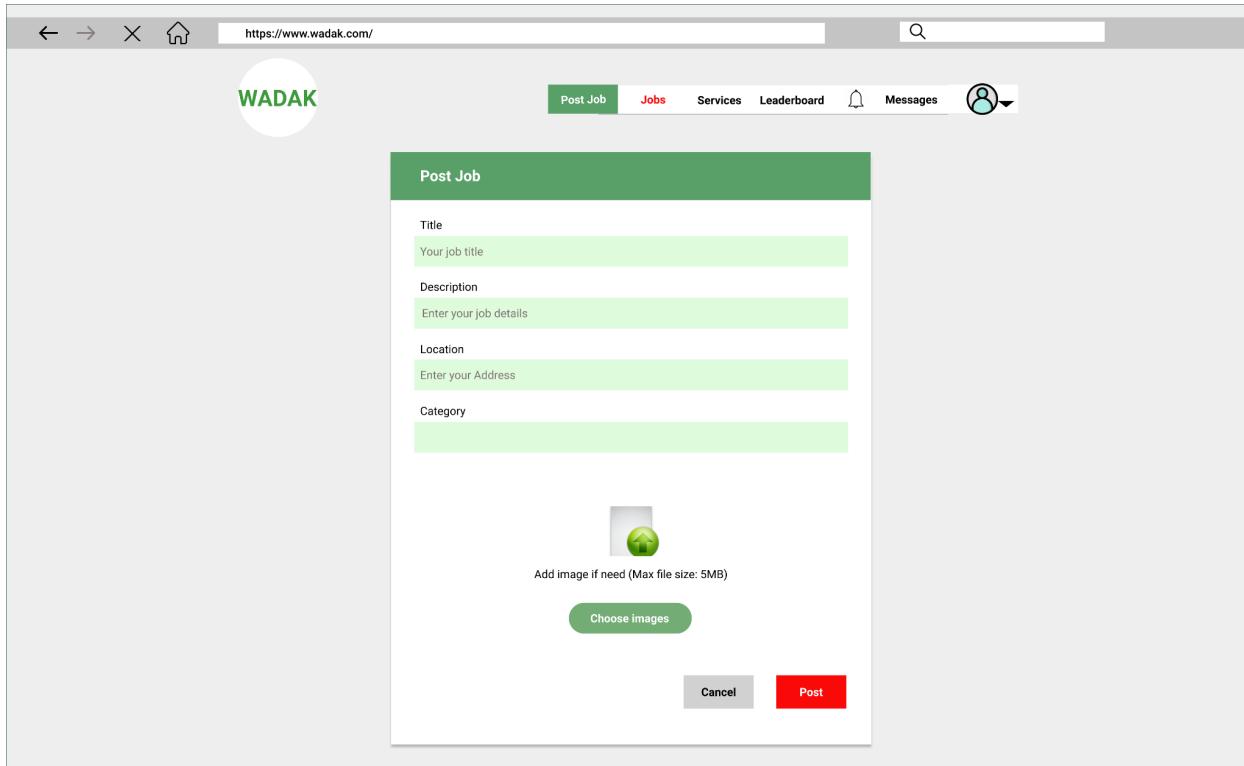
## Cancel job post



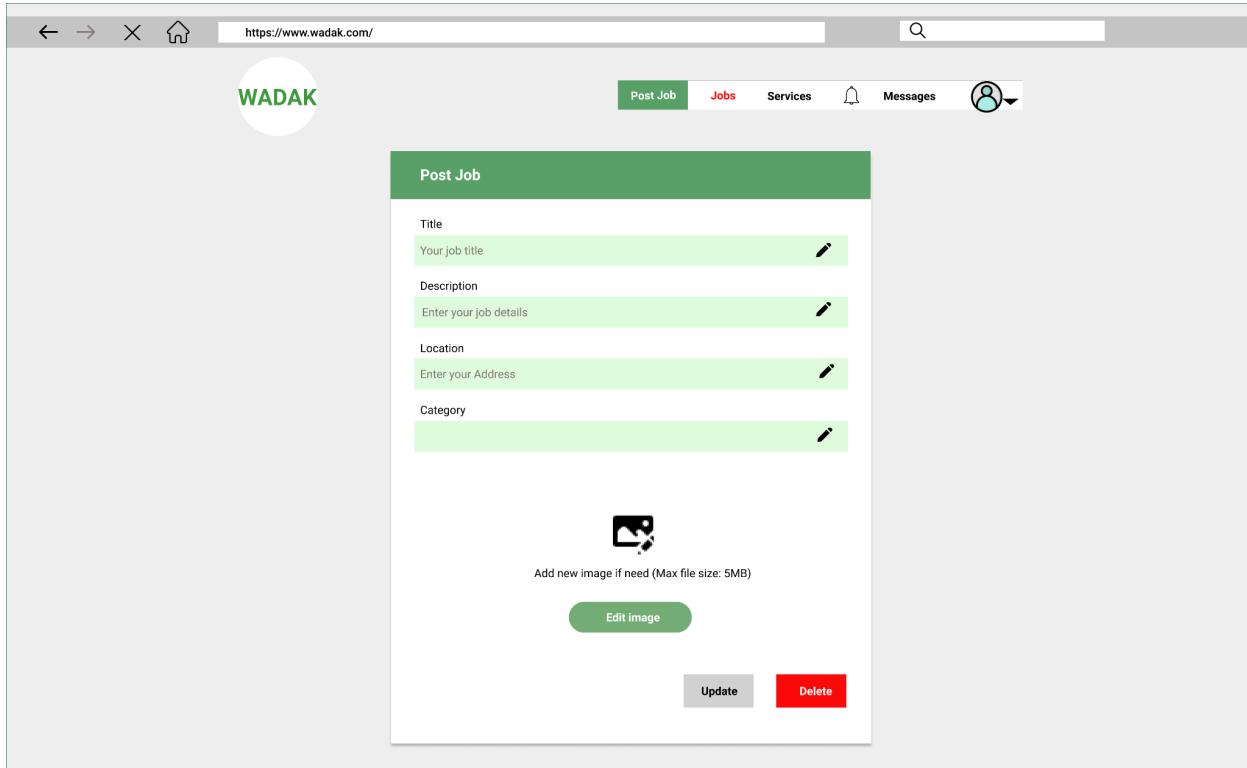
## Accept or Reject job apply



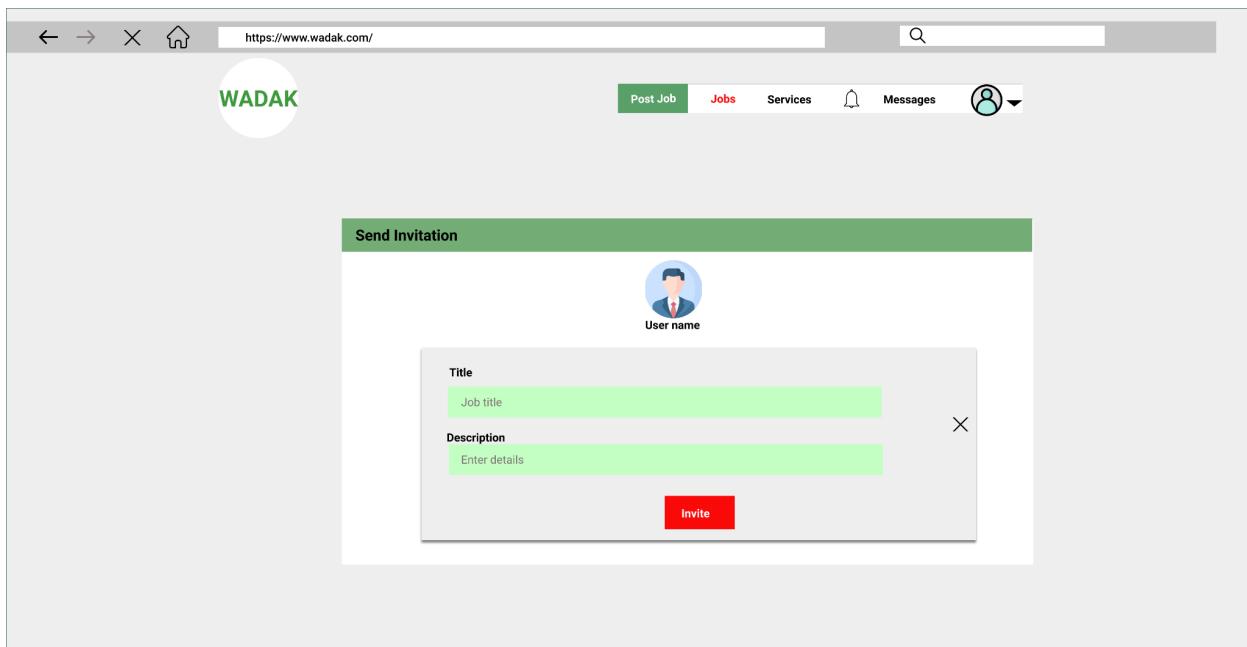
## Add achievement post



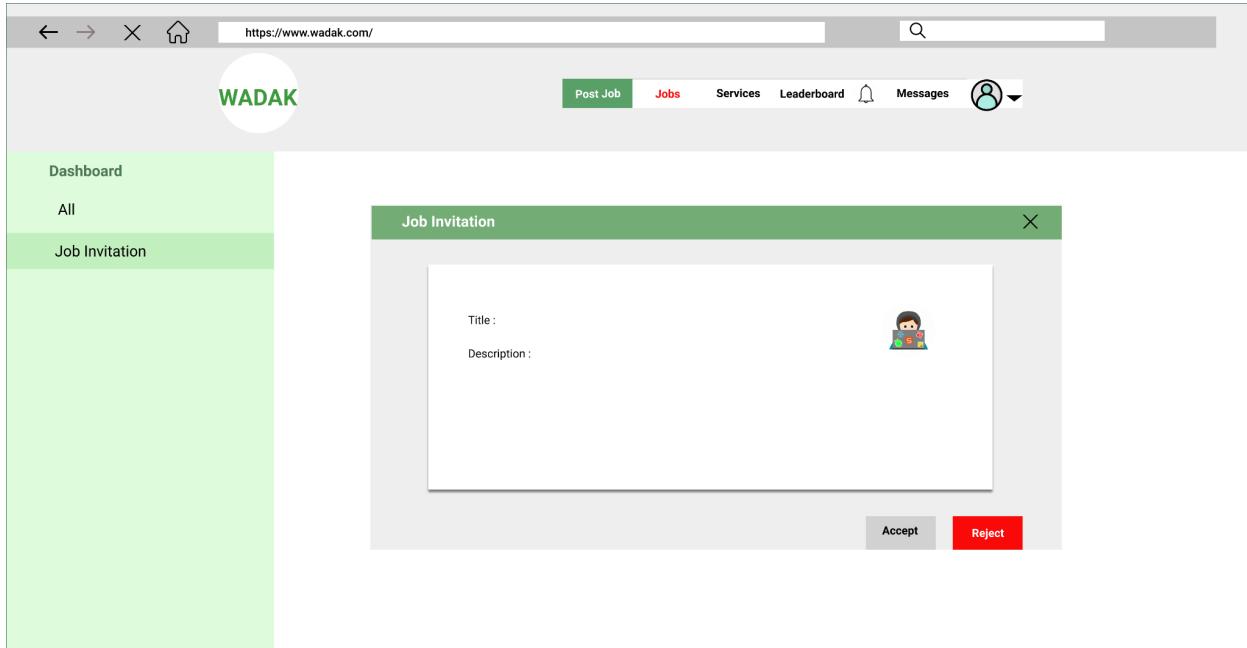
## Delete or Update achievement post



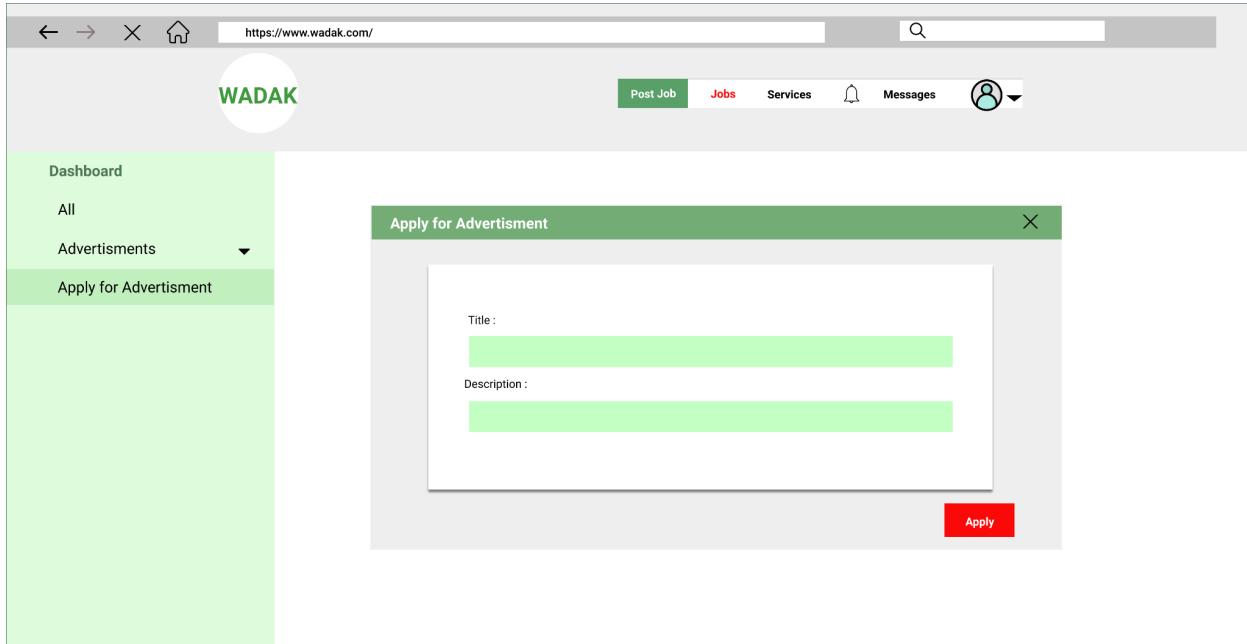
## Send invitation for a service provider



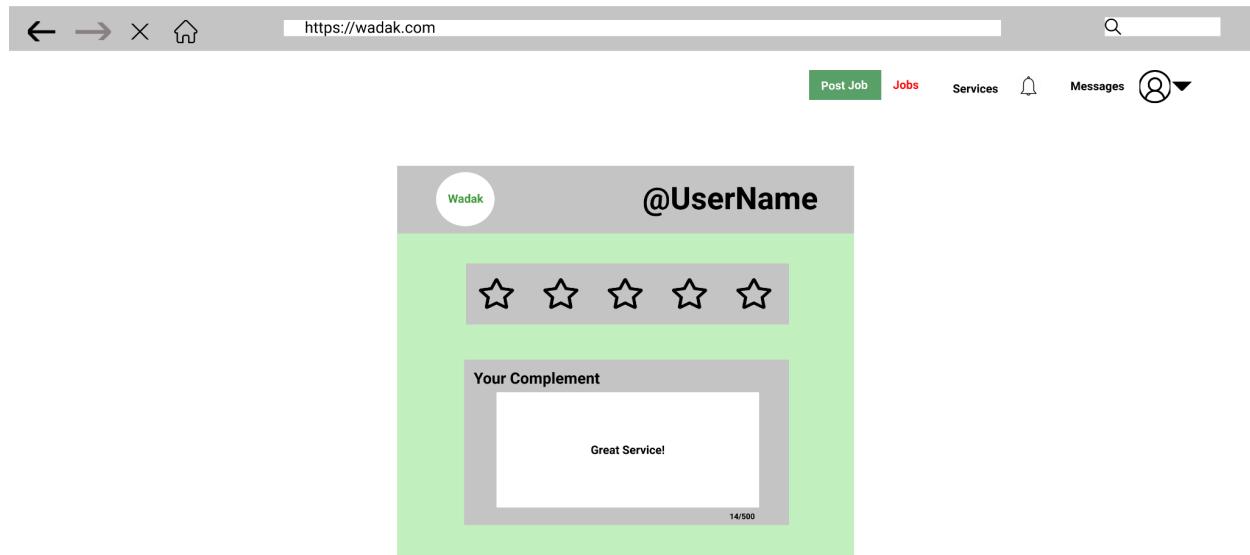
## Accept or reject a job application



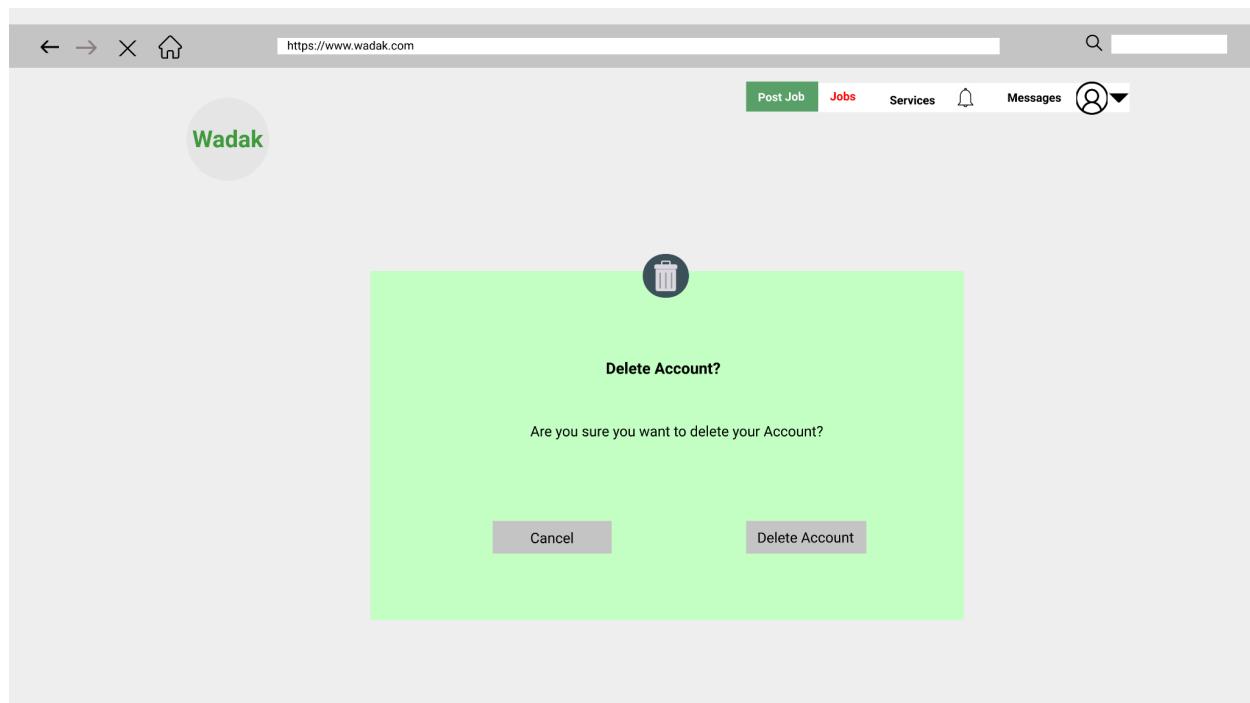
## Ask for advertisement



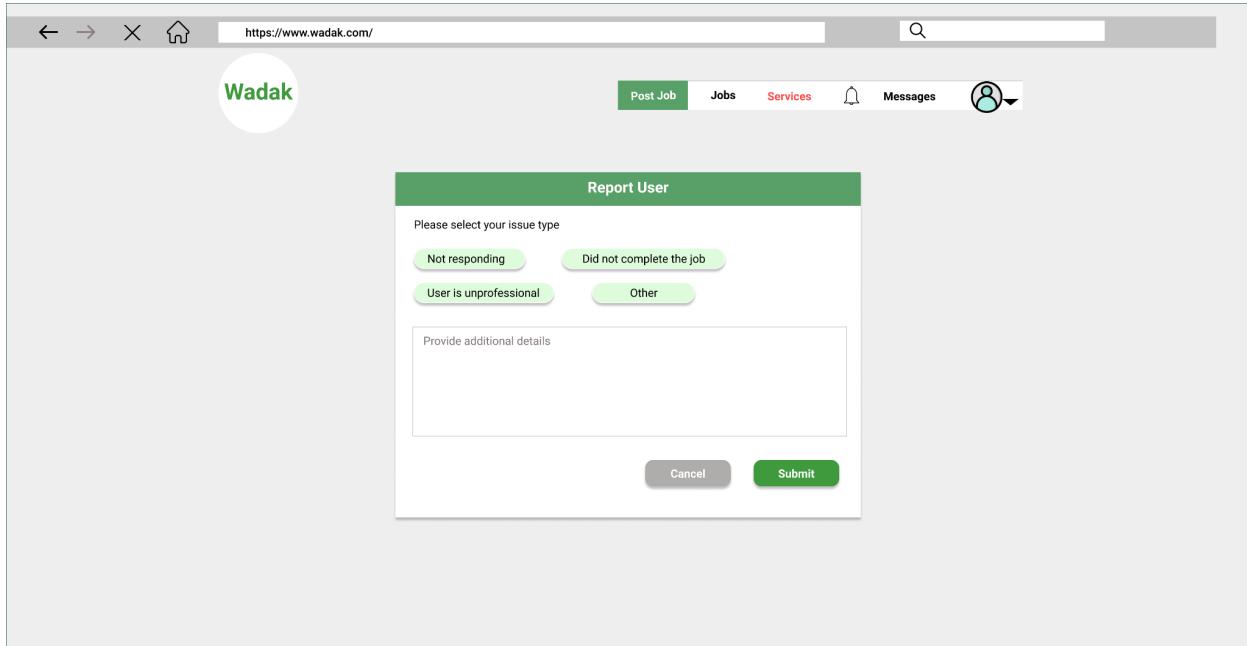
## Rate & review



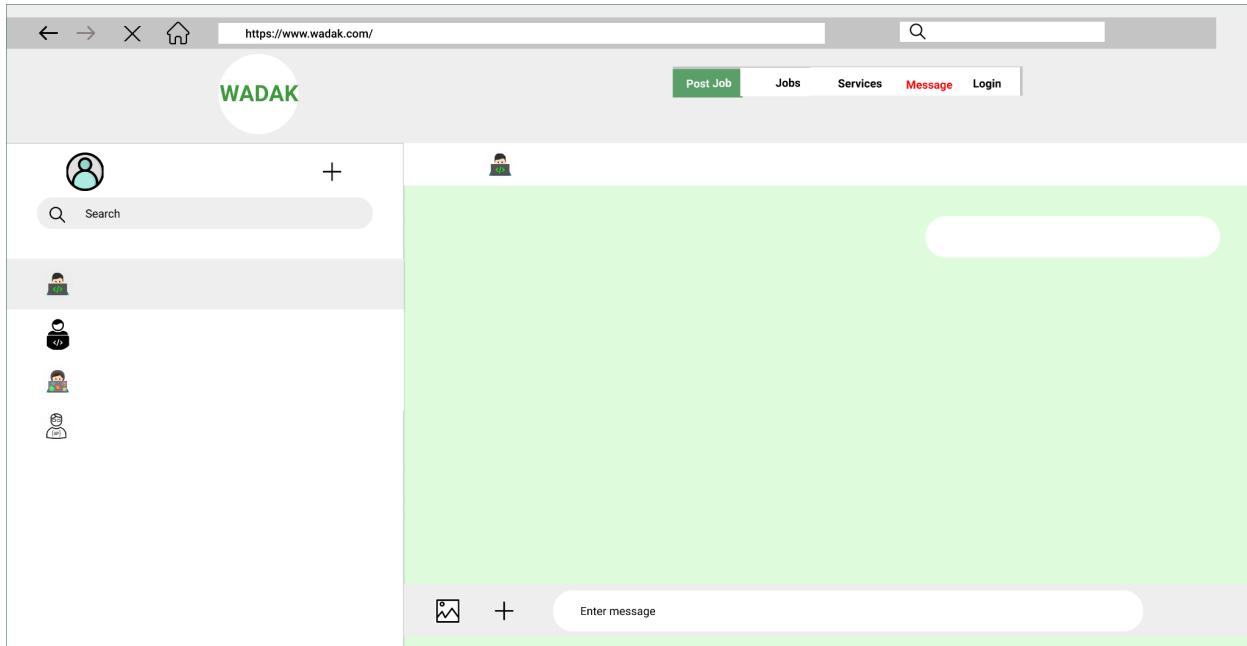
## Delete account



## Report



## Chat



## Q & A session

The screenshot shows the Q&A section of the WADAK website. At the top, there is a navigation bar with links for Post Job, Jobs, Services, Message, and Login. Below the navigation bar, there is a search bar and a user icon. The main content area is titled "Q&A". It displays three questions and their corresponding answers:

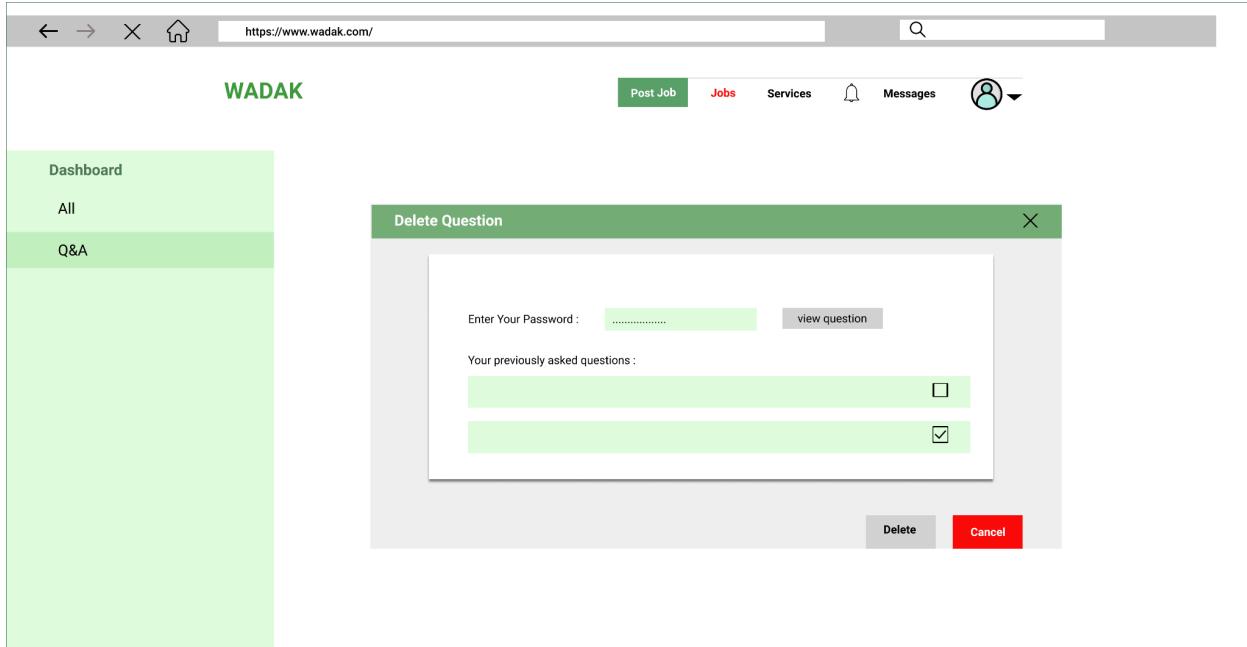
- Q.** How to create account?  
**A:** To create an account, go to the sign up page from [here](#).  
[Reply button]
- Q.** How to register as a service provider?  
**A:** Type your answer here.  
[Reply button]
- Q.** How do I respond to a job invitation?  
[Reply button]

At the bottom of the Q&A section, there are two buttons: "Delete Question" (red) and "Add Question" (green).

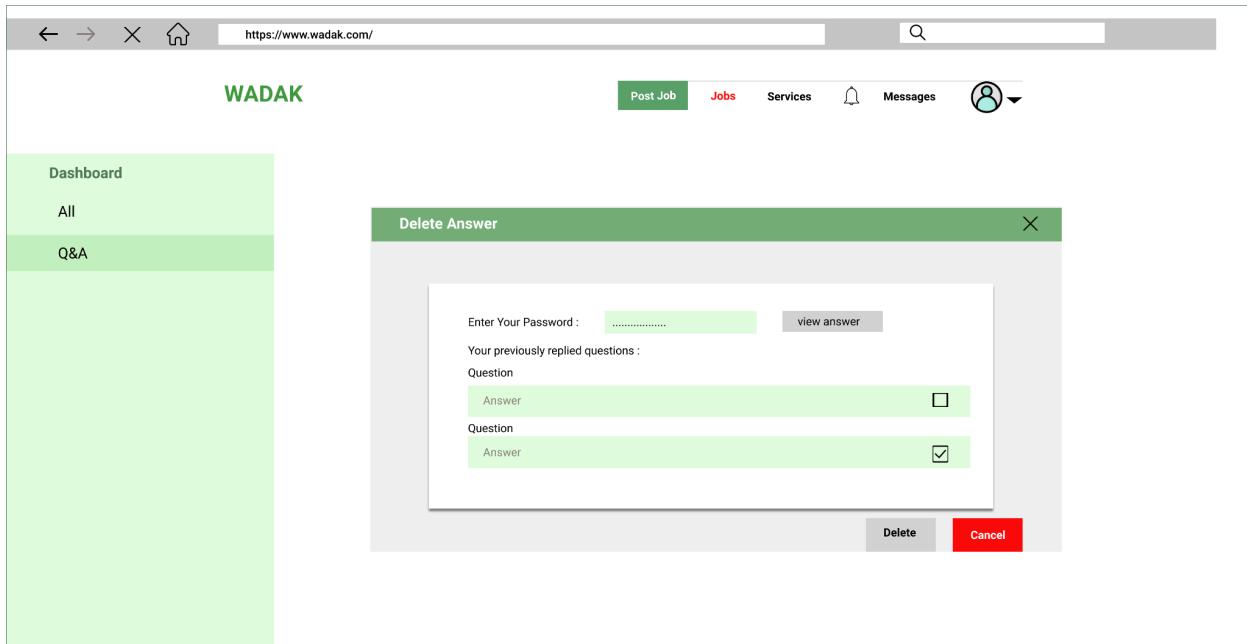
## Add question

The screenshot shows the "Add Question" dialog box on the WADAK website. The dialog box has a green header bar with the title "Add Question" and a close button. The main body of the dialog box contains a text input field with placeholder text "Ask Question : describe your question here..". There is also a small icon of a person at a computer monitor. At the bottom of the dialog box, there are two buttons: "Add" (grey) and "Cancel" (red).

## Delete question



## Delete answer



## Co-Admin dashboard

The screenshot shows the WADAK Co-Admin dashboard. On the left, a green sidebar menu lists navigation options: Home, Dashboard, Users, Posts, Advertisements, Q&A Session, Chat, News, and Notifications. The 'Dashboard' option is highlighted. The main area is titled 'Dashboard' and contains three large boxes: 'Total Service Providers', 'Total Hire Persons', and 'Total Job Posts'. Below these are three smaller boxes: 'Advertisements' (with a 'Handle' button), 'Q&A Session' (with a 'Handle' button), and 'News'. A search bar and a bell icon are at the top right.

## View hire person

The screenshot shows a 'View hire person' modal window. At the top, there's a header with a logo, a title 'View hire person', and a close button. The main content area contains two input fields: 'Username' and 'ID', each with a redacted value. At the bottom right of the modal are 'View' and 'Cancel' buttons.

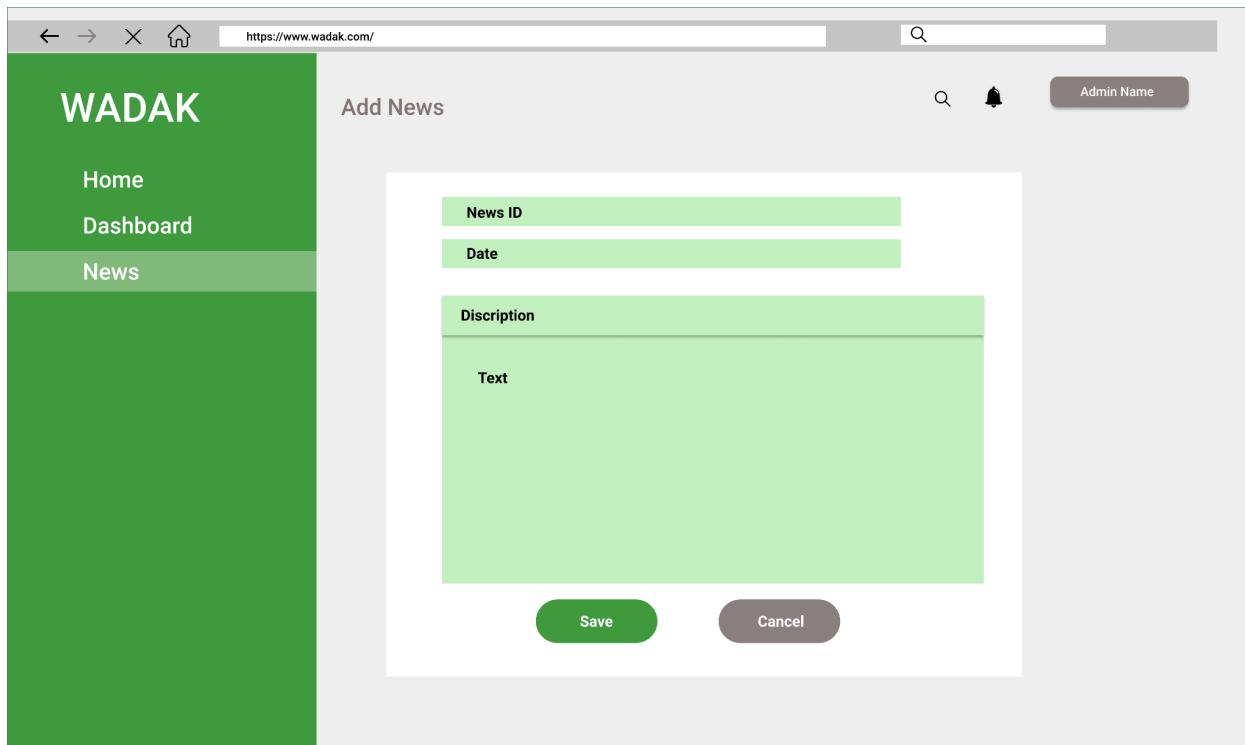
## Delete hire person

The screenshot shows a modal dialog box titled "Delete Hire Person". The dialog has a light gray background with a green header bar containing the title and a close button. Below the header is a large green rectangular area where two input fields are displayed: "Username" and "ID", each with a white input field. In the bottom right corner of the green area, there are two buttons: "Delete" and "Cancel". At the very bottom of the dialog is a thin gray footer bar.

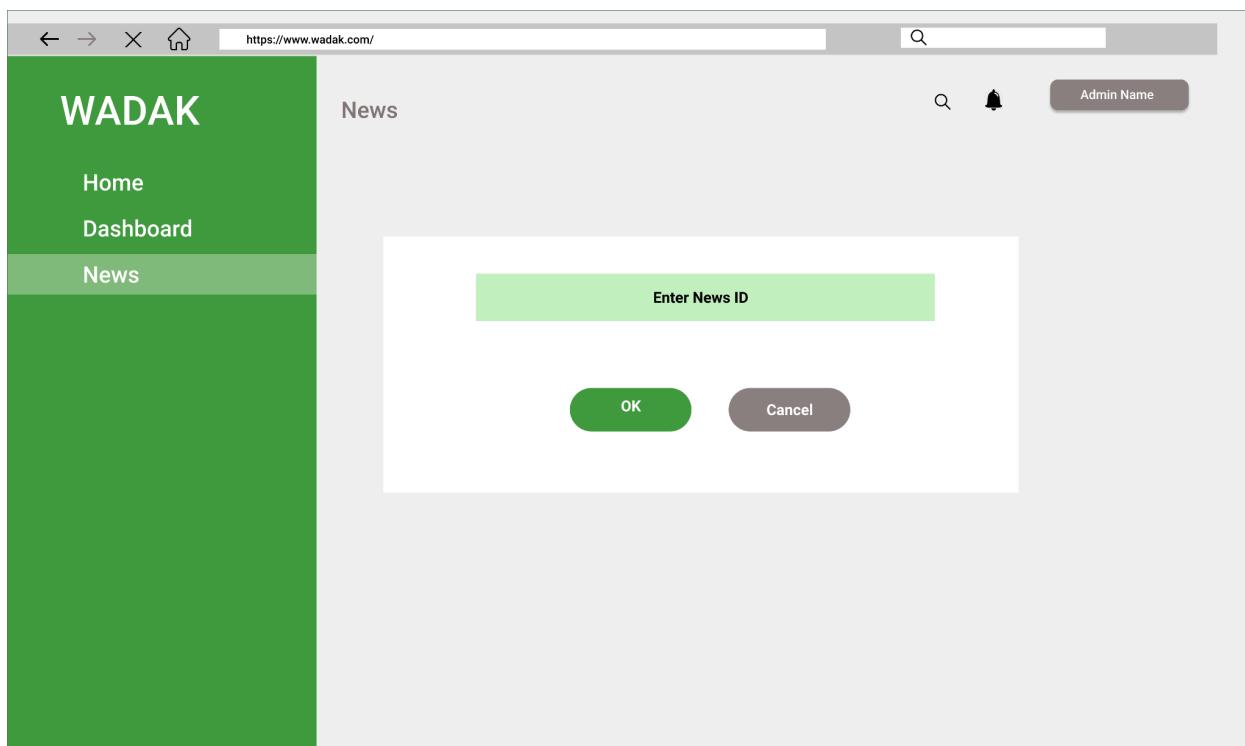
## News-Co-admin

The screenshot shows the WADAK application interface. On the left is a vertical navigation sidebar with a dark green background and white text, listing various admin functions: Home, Dashboard, Service Providers, Posts, Advertisements, Q&A Session, Chat, News (which is highlighted with a green bar), and Notifications. To the right of the sidebar is the main content area. The top header bar includes a search icon, a bell icon, and a "Co-Admin Name" dropdown. Below the header, the word "News" is displayed. Underneath, a section titled "News details" contains a table with two columns: "News ID" and "Type". To the right of the table are two green rounded rectangular buttons labeled "View" and "Add".

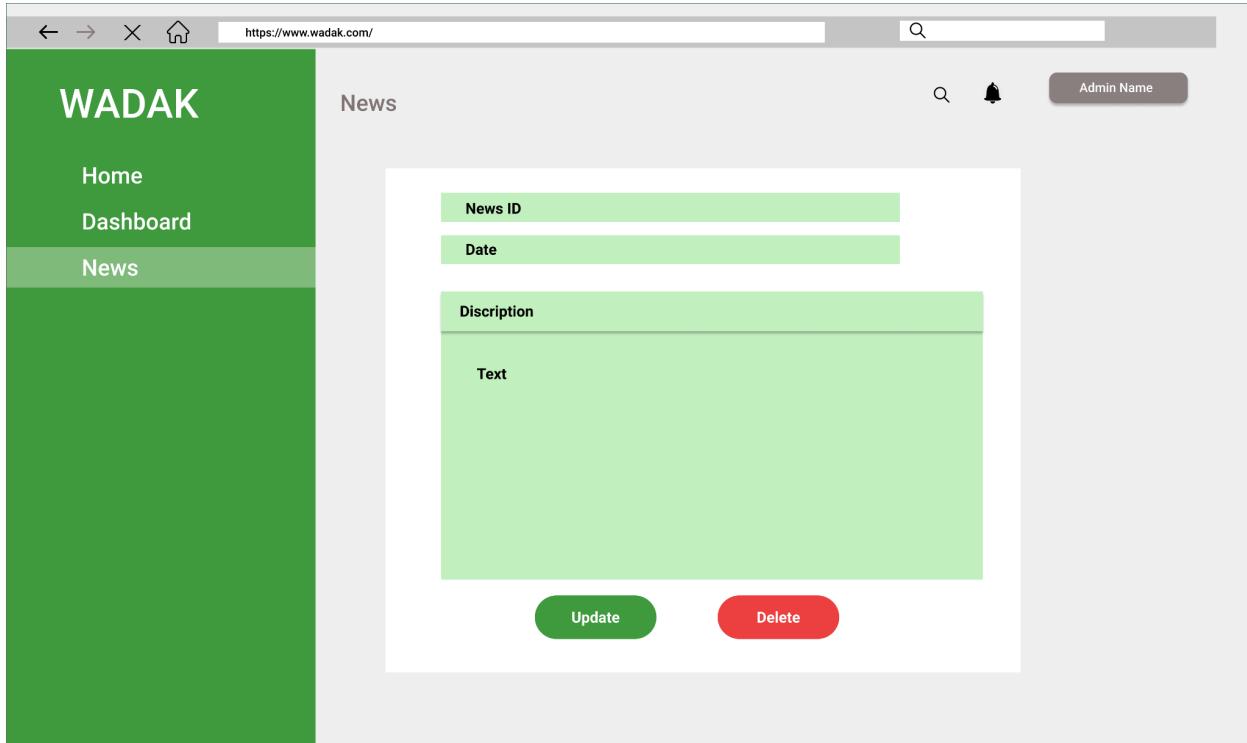
## Add news-Co-admin



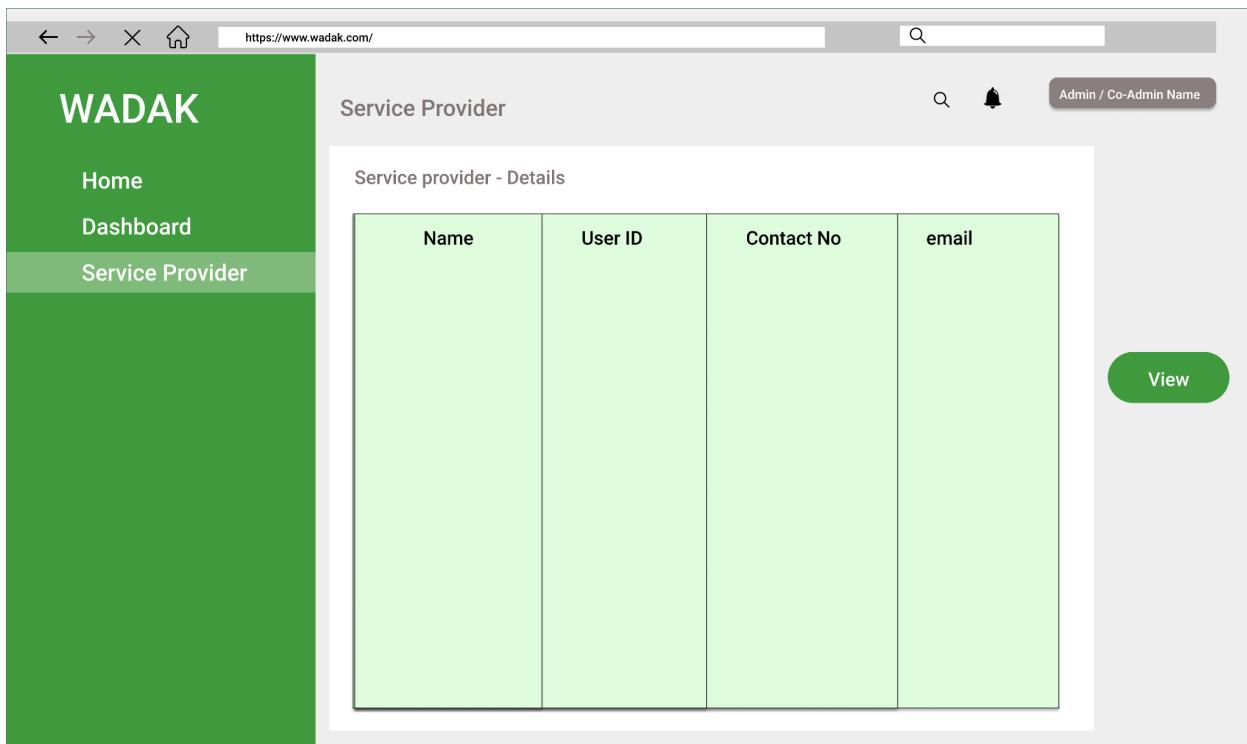
## View news - Co-admin



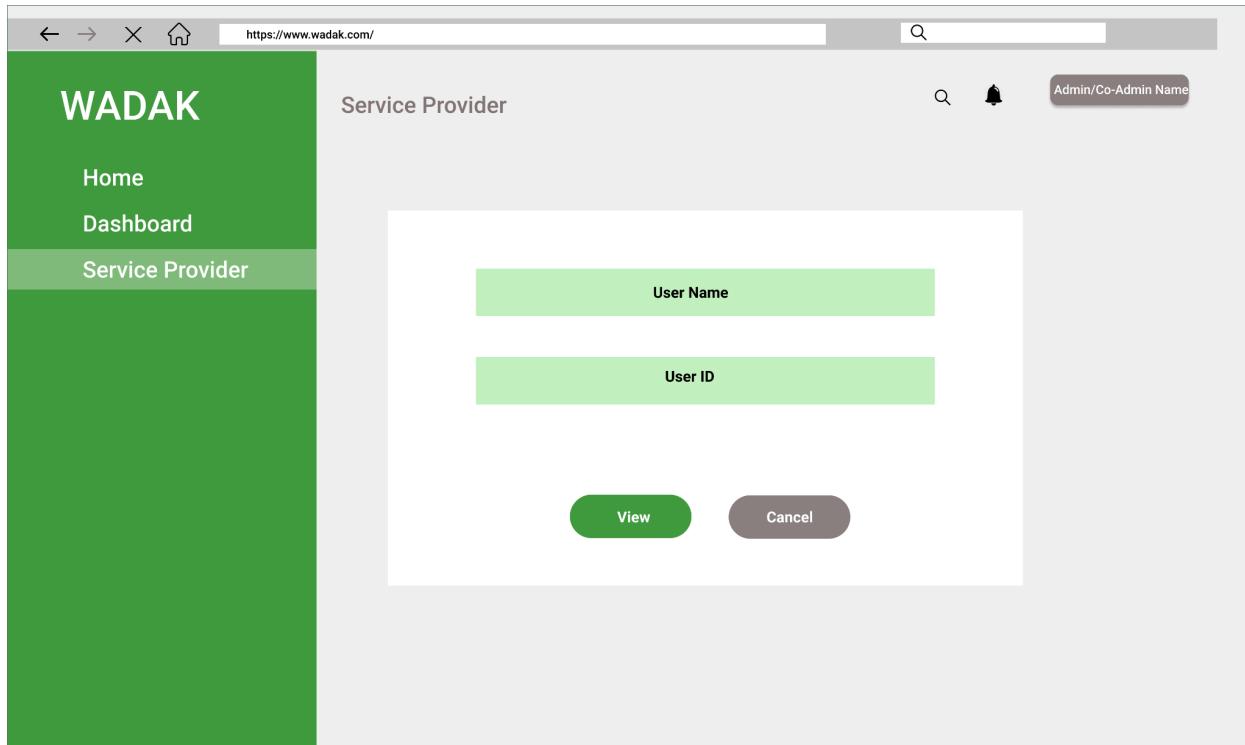
## Delete / Update news



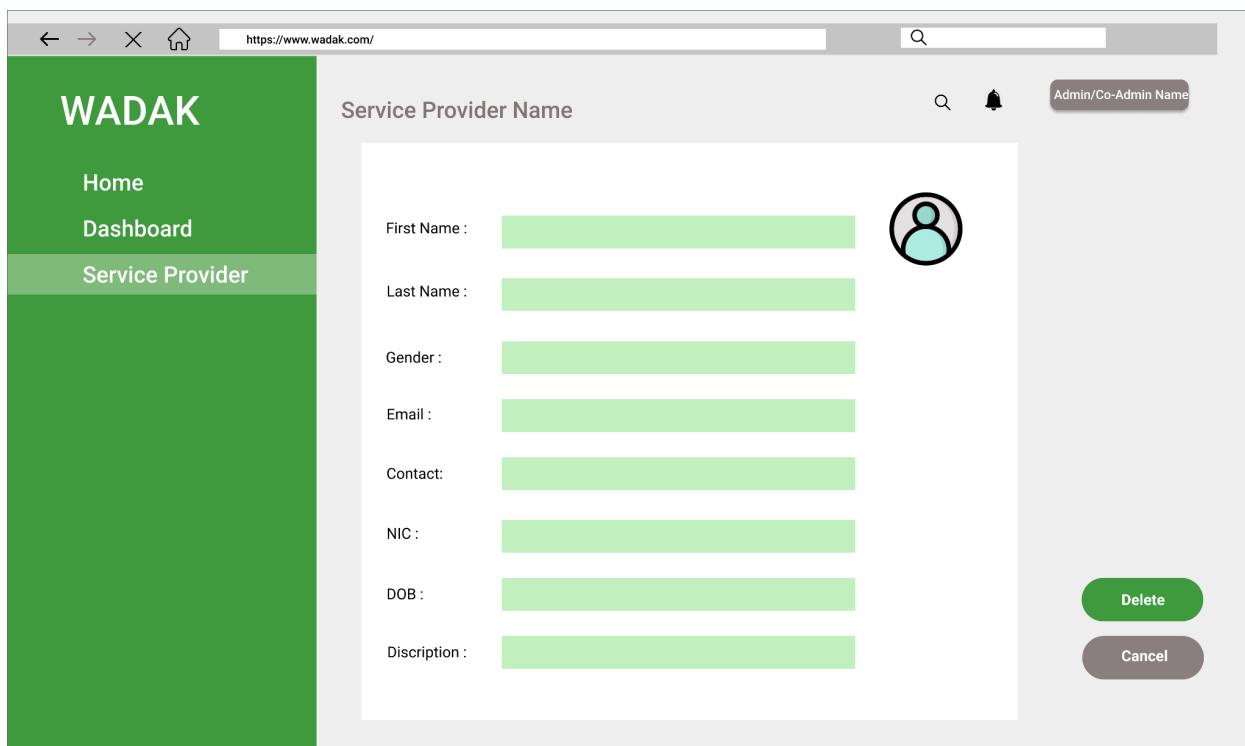
## Service provider UI - Admin/Co-admin



## View service provider - admin/co-admin



## Delete service provider - admin/co-admin



## Admin dashboard

The screenshot shows the Admin dashboard for WADAK. The left sidebar has a green background with white text, listing navigation options: Home, Dashboard, Categories, Co-Admin, Service Provider, Reports, Payments, Request, and Notifications. The 'Dashboard' option is highlighted. The main content area has a light gray background. At the top, there's a header with a search icon, a bell icon, and a button labeled 'Admin Name'. Below the header, there are three large boxes: 'Total Co-Admins', 'Total Service Providers', and 'Total Hire Persons'. Underneath these are three smaller boxes: 'Advertisements' with a 'View all' button, 'News' with a 'View all' button, and 'Total Deactivate Accounts'. At the bottom, there's a section titled 'Co-Admin details' with columns for 'Name', 'User ID', 'Contact', and 'Options'.

## Category

The screenshot shows the 'Categories' management page for WADAK. The left sidebar has a green background with white text, listing navigation options: Home, Dashboard, Categories, Co-Admin, Service Providers, Reports, News, and Notifications. The 'Categories' option is highlighted. The main content area has a light gray background. At the top, there's a header with a search icon, a bell icon, and a button labeled 'Admin Name'. Below the header, there's a section titled 'Category details' containing a table with two columns: 'Name' and 'Category ID'. To the right of the table are three green rounded rectangular buttons labeled 'Add', 'Delete', and 'Update'.

## Add category

The screenshot shows a web browser window for the URL <https://www.wadak.com/>. The page title is "Add Category". On the left, there is a green sidebar with the "WADAK" logo at the top and three menu items: "Home", "Dashboard", and "Categories", where "Categories" is highlighted. The main content area has a light gray background. A central modal dialog box is displayed, containing two input fields: "Category name" and "Category ID", both highlighted with a light green background. At the bottom of the dialog are two buttons: a green "Add" button and a dark gray "Cancel" button.

## Delete category

The screenshot shows a web browser window for the URL <https://www.wadak.com/>. The page title is "Delete Category". The layout is identical to the "Add Category" screen, with the green sidebar and the "Categories" menu item being active. The central modal dialog box contains the same two input fields: "Category name" and "Category ID". At the bottom of the dialog are two buttons: a green "Delete" button and a dark gray "Cancel" button.

## Add co-admin

https://wadak.com

Post Job Jobs Services Messages 001

Add Co-Admin

First Name \*

Last Name

NIC \*

Email \*

Address

Contact No \*

Home

Mobile

Ok Cancel

## View co-admin

https://wadak.com

Post Job Jobs Services Messages 001

View Co-Admin

Co - Admin ID

Name

View Cancel

## View/Delete//Update co-admin

https://wadak.com

Profile

First Name \*

Last Name

NIC \*

Email \*

Address

Contact No \*

Home

Mobile

001

Edit Delete Cancel

Admin profile

https://www.wadak.com/

WADAK

ADMIN

Name

Description

Name :

Email Address :

Contact :

Occupation :

Edit

## References

[1] *Fiverr - Freelance Services Marketplace for Businesses* (no date). Available at:  
<https://www.fiverr.com/> (Accessed: 18 September 2021).

[2] *L. Bass, P. Clements and R. Kazman, Software Architecture in Practice (3rd)*. (no date).

[3] *PayHere - Sri Lanka's No.1 Online Payment Gateway Service* (no date). Available at:  
<https://www.payhere.lk/> (Accessed: 18 September 2021).

[4] *Sending SMS Messages with PHP » Developer Content from Vonage ♥* (no date). Available at:  
<https://learn.vonage.com/blog/2017/09/20/sending-sms-messages-with-php-dr/> (Accessed: 18 September 2021).

[5] *Upwork | The World's Work Marketplace for Freelancing* (no date). Available at:  
<https://www.upwork.com/> (Accessed: 18 September 2021).