PROJECT PROPOSAL



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ONLINE PLATFORM FOR IT WORKERS AND HIRE PERSONS

CS Group 18

TEAM OVERVIEW

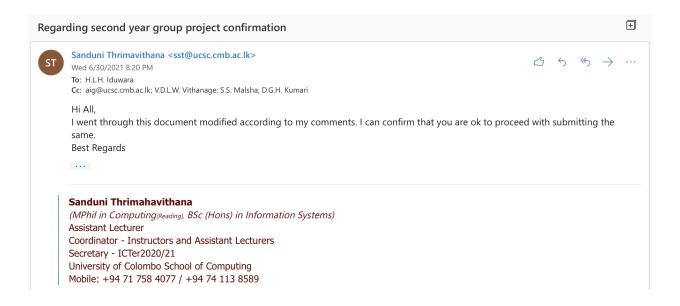
Proposed Project Supervisor (Academic Staff of UCSC):

Name of the supervisor: Miss Sanduni Thrimahavithana

Proposed Project Co-Supervisor (Assigned by Course Coordinator):

Name of the co-supervisor: Mr Akila Gamage

Confirmation by project supervisor and co-supervisor



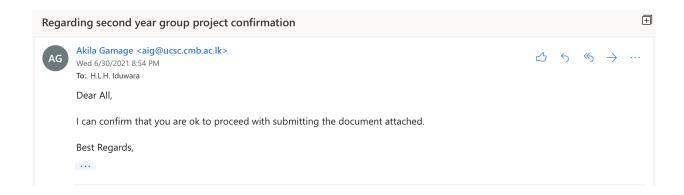


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List of abbreviations

- CS: Computer Science
- HTML: Hyper Text 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

1.0 Introduction

Problem Statement:

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.

2.0 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 with related to their IT knowledge, this system will be very effective platform.

3.0 Scope

- Only a web application will be made.
- User groups are,
 - Admin, Co-admin, Hire person, Service provider
- The functionality will be limited to,
 - Contacting the service provider, rating, reviewing, and reporting functionalities for the hire person.
 - Contact the hire persons for the service provider.
 - 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.
- The system should provide filtering criteria when searching service providers or job posts.
- A sandbox will be used for the online payment model (for advertisements).
- There is no function that automates the payment units through the system such as doing payments for the service provider through the system. (out of the scope)
 - Following are the subsystems made:
 - Login and authentication module.
 - Online payment module Pay for advertisements.
 - Report generation module to generate the current situation of users for Admin.
 - SMS module sending alerts to users.
 - Database All user details.

4.0 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.

5.0 Project Feasibility

5.1 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. Main aim of 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 post 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. System will provide guillinece 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.

5.2 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.

5.3 Economic Feasibility

• 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.

5.4 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.

5.5 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.

6.0 Deliverables of the Projects

The following deliverable products will be available at respective times throughout the duration of the project

- Finished web application with all User-friendly interfaces at the end of the timeline
- Test cases diagram
- User Documentation.

7.0 Project Constraints and Assumptions

• The product shall be finished within 10 months according to the period of time. Although due to the current Covid-19 situation the period of time may adjust varyingly.

- All 4 members of the group possess the same skills and abilities in terms of software development.
- No frameworks are allowed to be used. So, the project will be hard coded. In terms of the system, we assume that:
- All the users of the system have satisfactory IT and English knowledge to use the system.
 Though this system is made for IT service providers and those who want to hire them, we assume those people already have good IT and English knowledge.
- In terms of hardware, the PC, Laptop, or Mobile phone can be logged into the system and can use the system.
- Online payments will be done through a secure channel.
- When the user (Service provider or hire person) makes online payments, he should give an online receipt to the co-admin in order to proceed forward.
- When the user (Service provider or hire person) is unable to pay online advanced payments they can do it offline(through a bank) by contacting the co-admin of the system.

8.0 Requirements

8.1 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 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

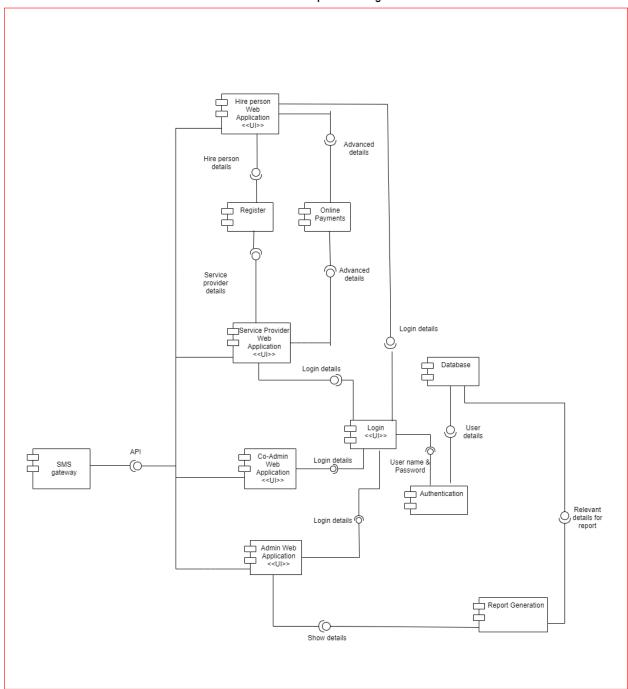
- Shall be able to view job posts.
- Shall be able to send and cancel job applications sent to the hire person(System will give a notification).
- Shall be able to manage achievement posts. Create, Delete, Update and share on facebook.
- Shall be able to accept or reject job invitations(System will give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

System

- Should provide filtering criteria when searching service providers or job posts.
- 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.

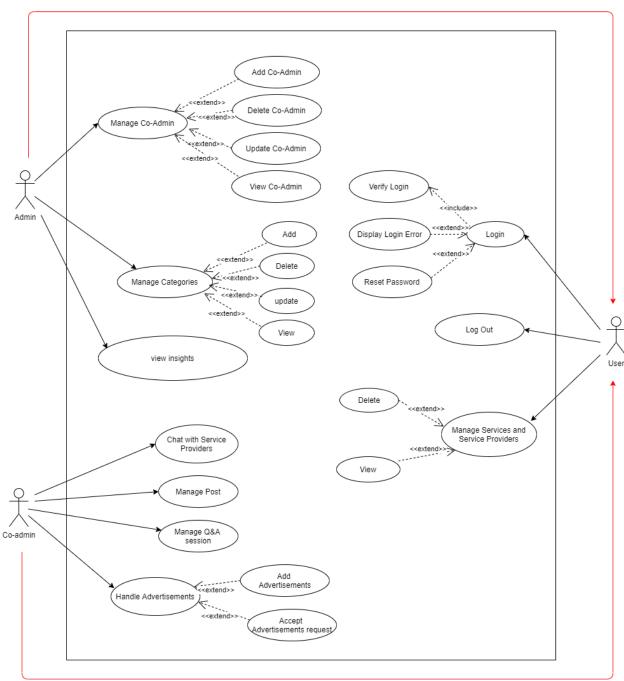
8.1.1 Component Diagram

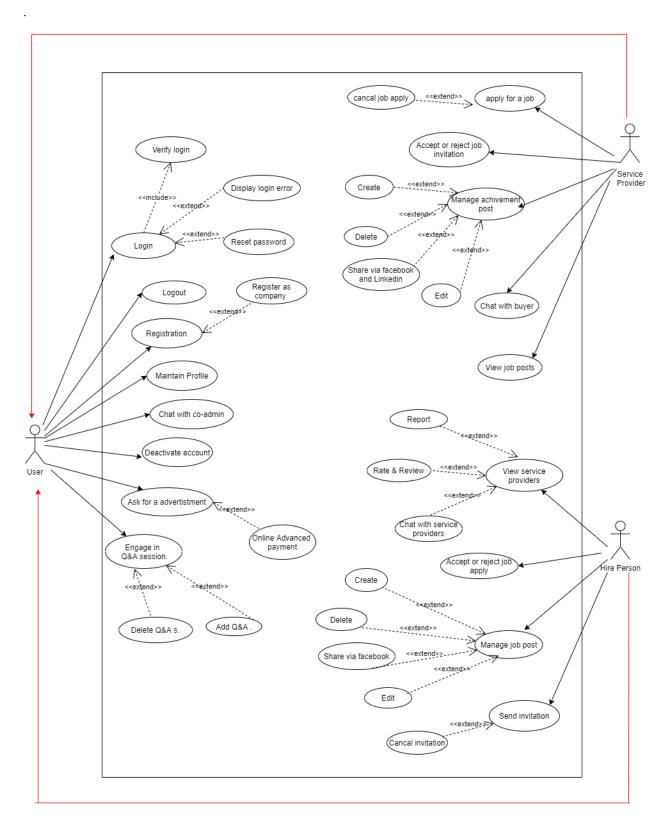
Componenet diagram



8.1.2 Use Case Diagram







8.1.3 Use Case Descriptions

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

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

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

Use Case	Register	Summery
Use Case ID	04	Can create accounts for user groups. Hire persons can register as a personal account or company account.
Actors	Hire person, Service provider	
Preconditions	-	
Description	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.	
Exception	Invalid data for the fields.	
Post Conditions	If success: Account created in database.	

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

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

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

Use Case	Update co-admin	Summery
Use Case ID	08	Admin can update co-admin personal details.
Actors	Admin	
Preconditions	Login through Admin account.	
Description	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.	
Exception	Invalid search.	
Post Conditions	Send an informative message to the co-admin if any other matters to attend to, can logout.	

Use Case	View co-admin	Summery
Use Case ID	09	Admin can view relevant details of co-admins which are included in the database.
Actors	Admin	
Preconditions	Login as Admin.	
Description	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.	
Exception	Invalid search.	
Post Conditions	If not any other matters to attend to, can logout.	

Use Case	Delete Hire person or service provider.	Summery
Use Case ID	10	Admin and co-admin can remove Hire persons or service providers from the system.
Actors	Admin, Co-admin	
Preconditions	Login through Admin or co-admin account.	
Description	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.	
Exception	Invalid search.	
Post Conditions	Send an information message to the co-admin if there are no other matters to attend to, can log out.	

Use Case	View Hire person or service provider.	Summery
Use Case ID	11	Admin or co-admin can view relevant details of the Hire person or service provider which are included in the database.
Actors	Admin, Co-Admin	
Preconditions	Login as Admin or Co-Admin.	
Description	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.	
Exception	Invalid search.	
Post Conditions	If not any other matters to attend to, can logout.	

Use Case	View the report of current users.	Summery Admin can view reports about the
Use Case ID	12	Admin can view reports about the current number of Hire persons, service providers and number of deactivated accounts and reasons.
Actors	Admin	
Preconditions	Login through the admin account.	
Description	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.	
Exception	-	
Post Conditions	If not any other matters to attend to, can logout.	

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

Use Case	Delete existing category	Summery
Use Case ID	14	Admin can delete existing categories from the system.
Actors	Admin	
Preconditions	Login through the admin account.	
Description	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	
Exception	Invalid search.	
Post Conditions	If not any other matters to attend to, can logout.	

Use Case	Update existing category	Summery
Use Case ID	15	Admin can update existing categories from the system.
Actors	Admin	
Preconditions	Login through the admin account.	
Description	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.	
Exception	Invalid search.	
Post Conditions	If not any other matters to attend to, can logout.	

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

Use Case	Chat with co-admins.	Summery
Use Case ID	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.
Actors	Service provider or hire person.	
Preconditions	Login as service provider or hire person.	
Description	Hire persons or service providers can communicate with co-admins through the chat section.	
Exception	-	
Post Conditions	If not any other matters to attend to, can logout.	

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

Use Case	Deactivate the account	Summery
Use Case ID	19	Hire person, Service provider can deactivate their account if they do not want to be available in the system anymore.
Actors	Hire person, Service provider.	
Preconditions	Log in as a service provider or a hire person.	
Description	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.	
Exception	Do not select reasons through provided reasons.	
Post Conditions	If no other matters to attend to, the account is deactivated.	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Use Case	Add Q&A	Summery									
Use Case ID	34	Hire persons and service providers can add Q&A in the Q&A section.									
Actors	Hire person, Service provider										
Preconditions	Login as a hire person or a service provi	der.									
Description	Both hire persons and service providers the Q&A session as well as can reply to	1									
Exception	-										
Post Conditions	Q&A is published.										

Use Case	Delete Q&A	Summery							
Use Case ID	35	Hire persons and service providers can delete Q&A in the Q&A section.							
Actors	Hire person, Service provider								
Preconditions	Login as a hire person or a service provibefore.	der./Q&A must be published							
Description	Both hire persons and service providers questions in the Q&A session as well as	•							
Exception	-								
Post Conditions	Q&A is deleted.								

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

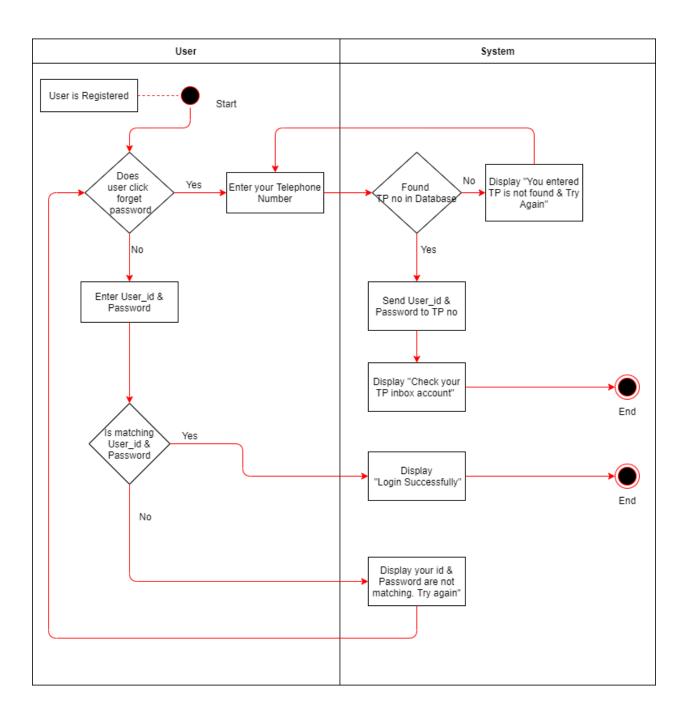
Use Case	Ask for a advertisement	Summery							
Use Case ID	37	Both hired persons or service providers can request for their image(png or jpeg format) advertisement.							
Actors	Hire person, Service provider								
Preconditions	Login as a hire person or service provide	er.							
Description	Both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

Use Case	Online advanced payments.	Summery							
Use Case ID	38	Can pay advance even online (quality)							
Actors	Hire person, Service provider								
Preconditions	Should be in "Apply advertisement"								
Description	Users can select a payment method and authentication will be handled by the on								
Exception	Payment method error, Insufficient balan	nce.							
Post Conditions	If success: perform transaction								

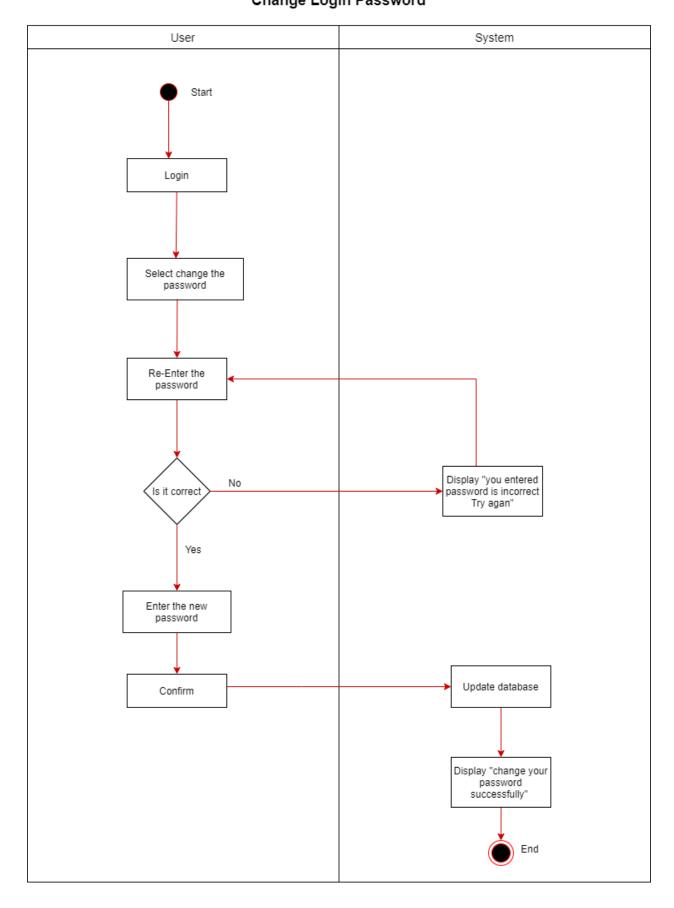
8.1.4 Activity Diagrams

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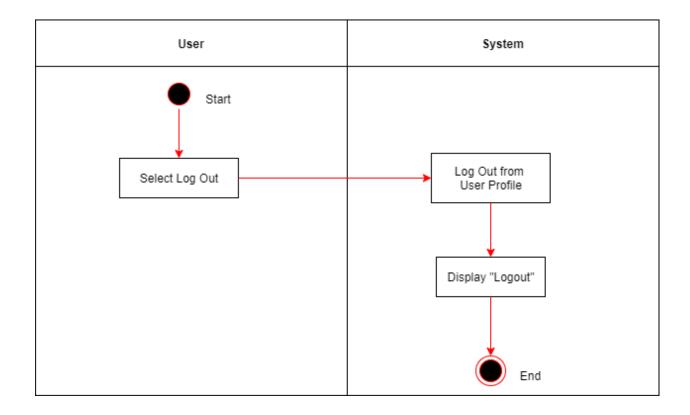
Login - All Users



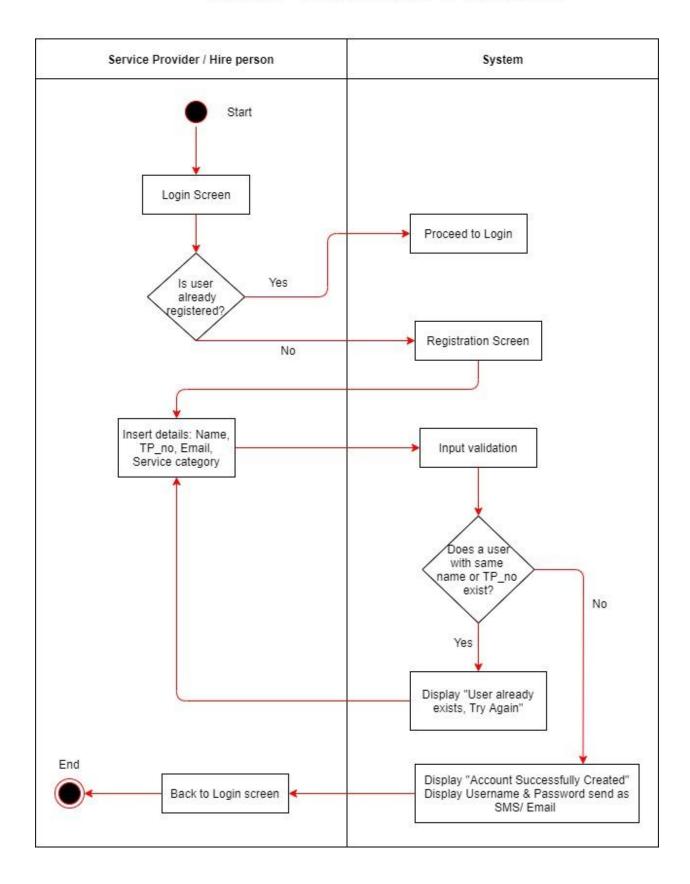
SCS2202 Group18 Change Login Password



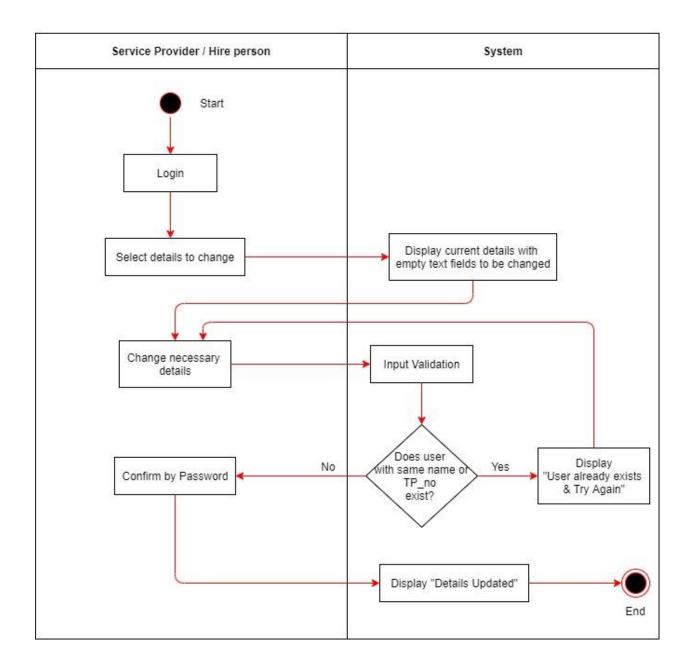
Logout - ALL User



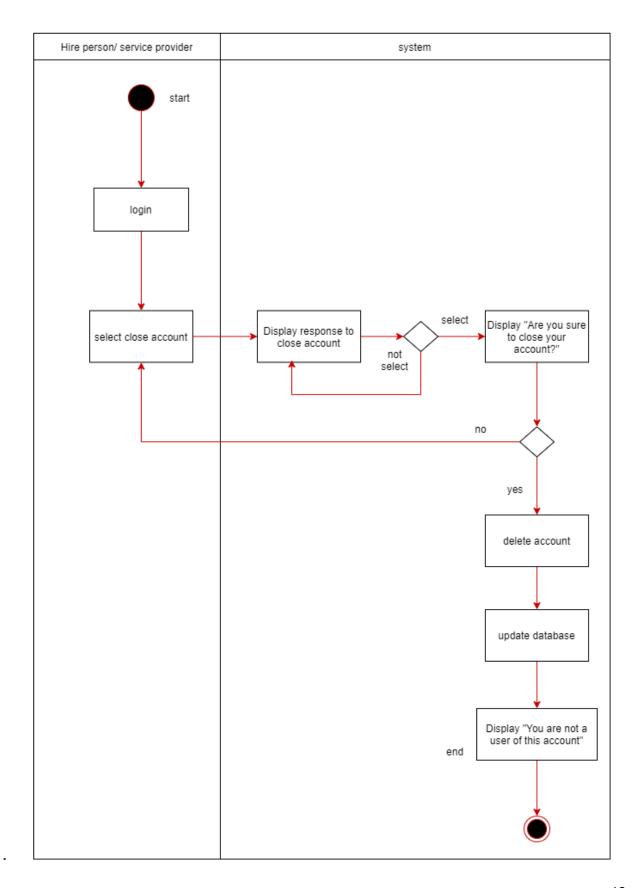
Register - Service Provider or Hire person



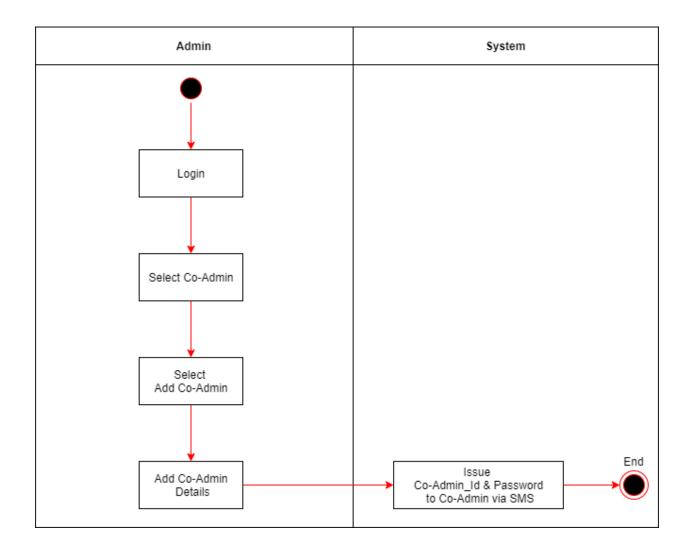
Update Profile - Service Provider or Hire person



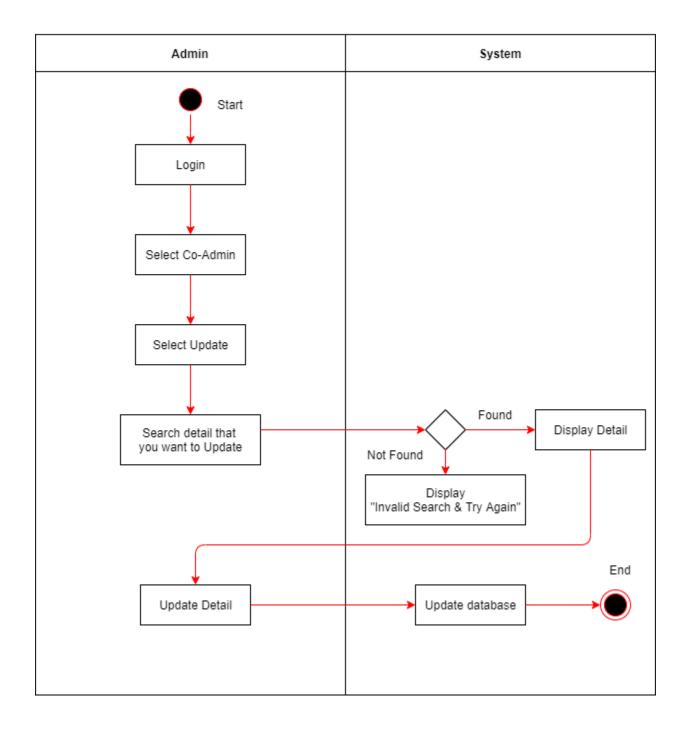
Deactivate the account - Hire person / service provider



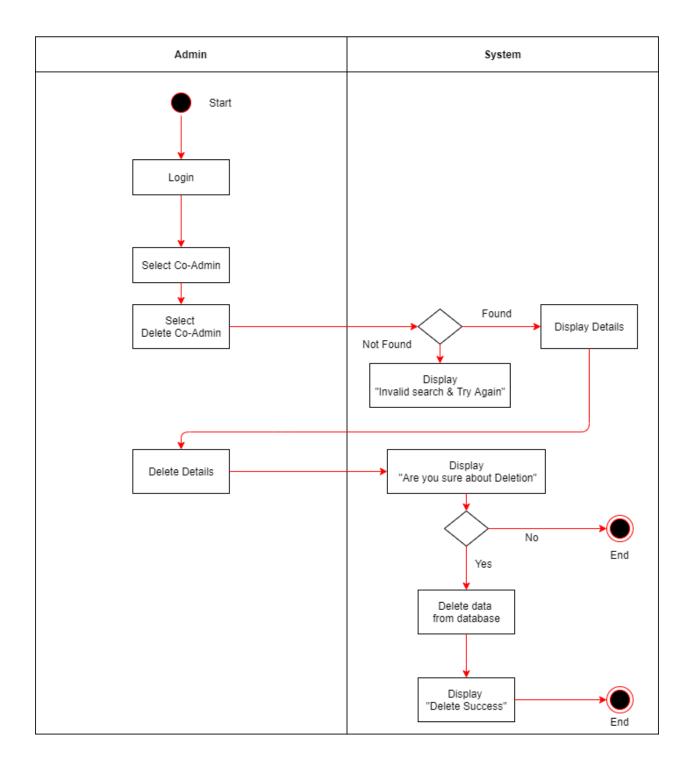
Add Co-Admin - Admin



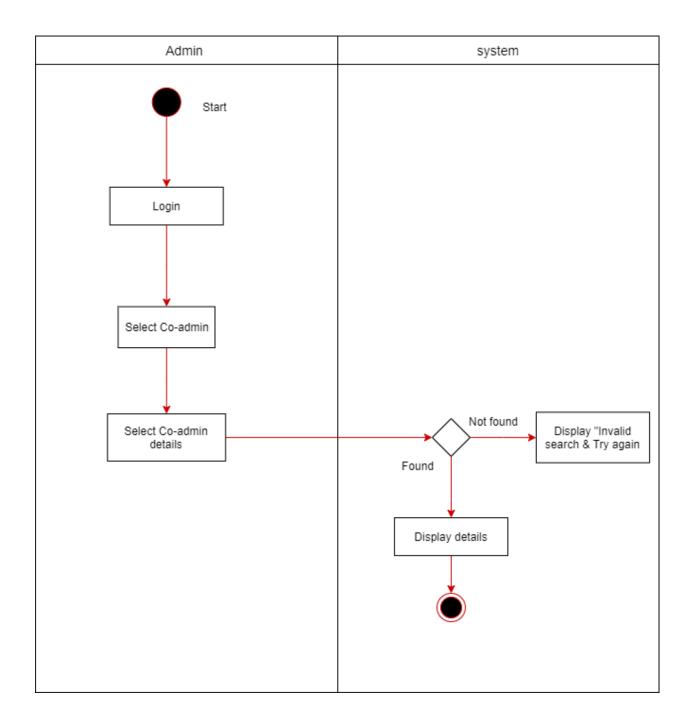
Update Co-Admin - Admin



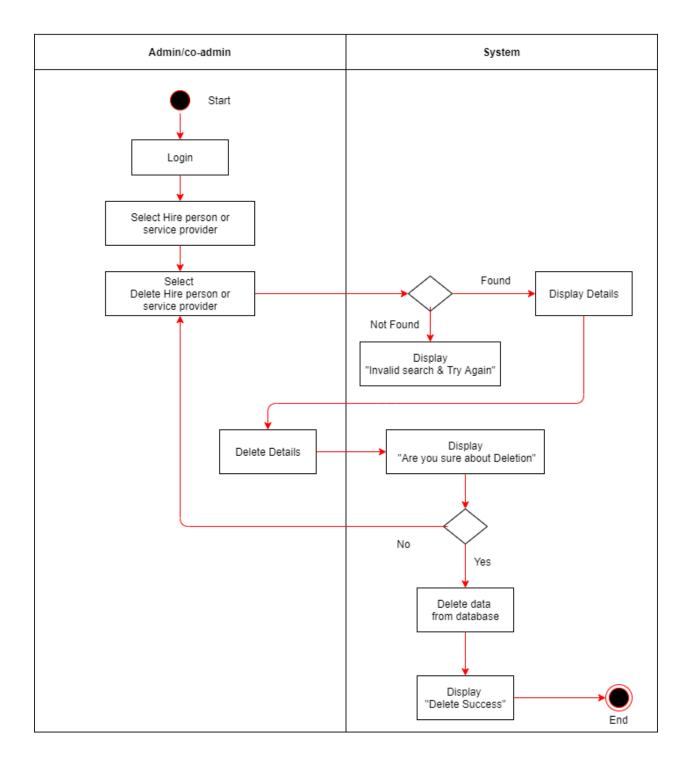
Delete Co-Admin - Admin



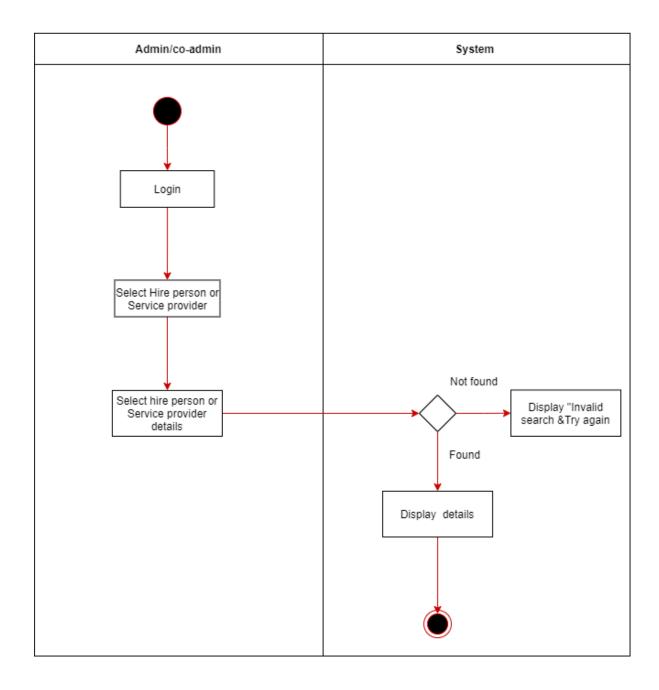
View co-admin details - Admin



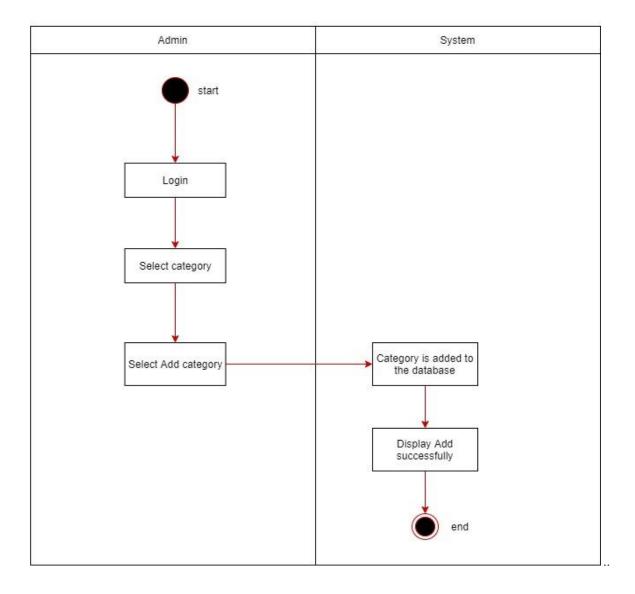
Delete Hire person or service provider - Admin,co-admin



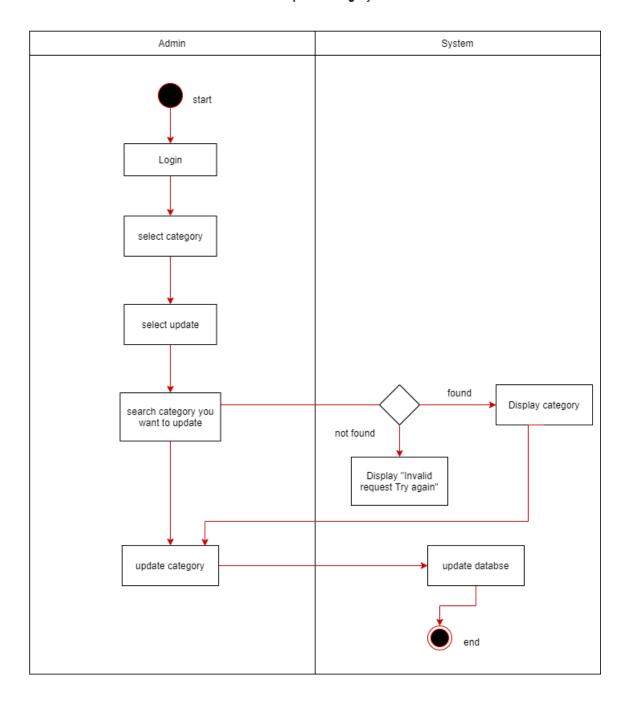
View Hire person/ Service provider details - Admin/co-admin



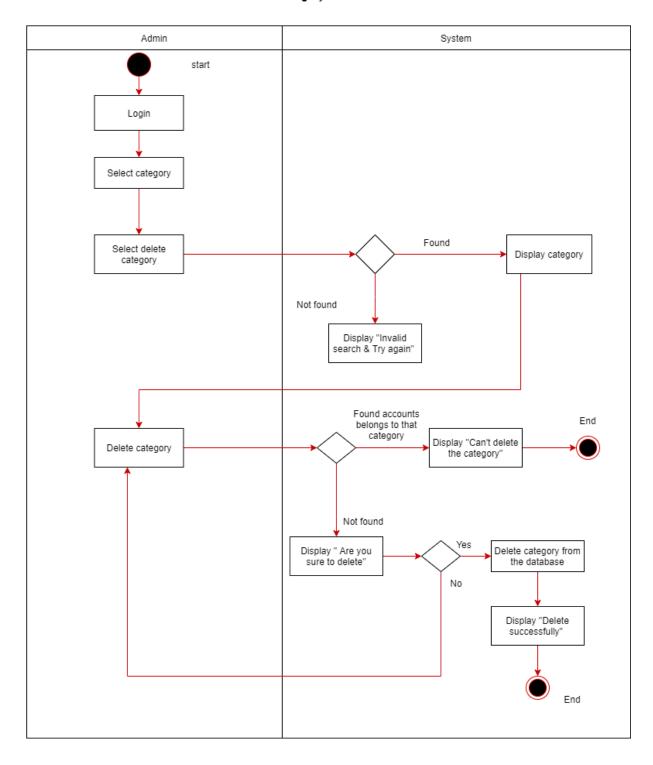
Add category - Admin



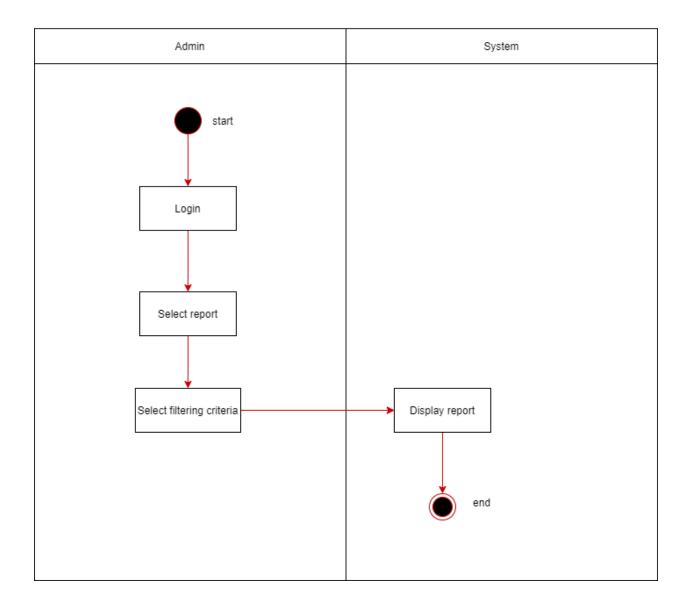
Update category - Admin



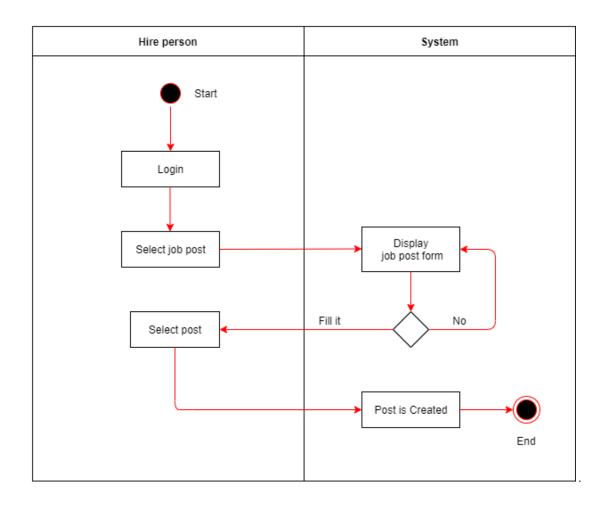
Delete Category - Admin



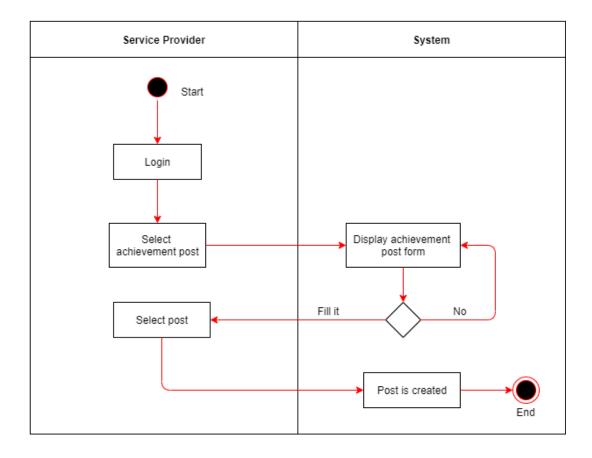
view insights - Admin



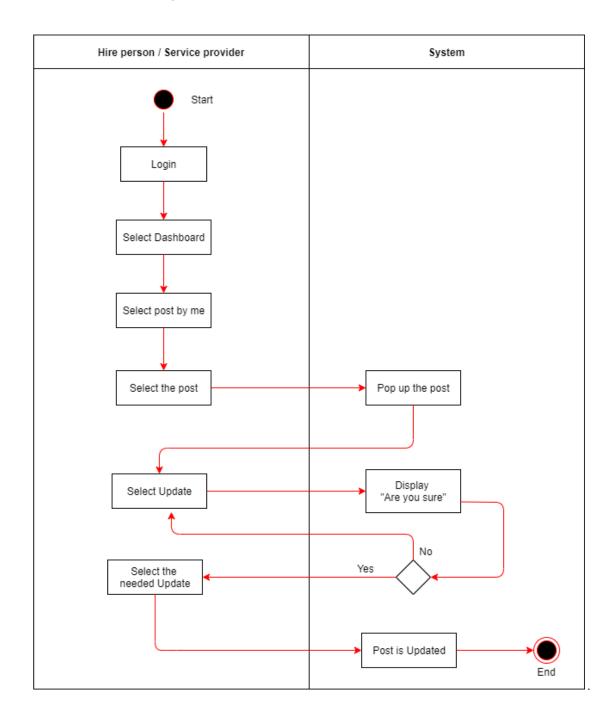
Create Job Post - Hire Person



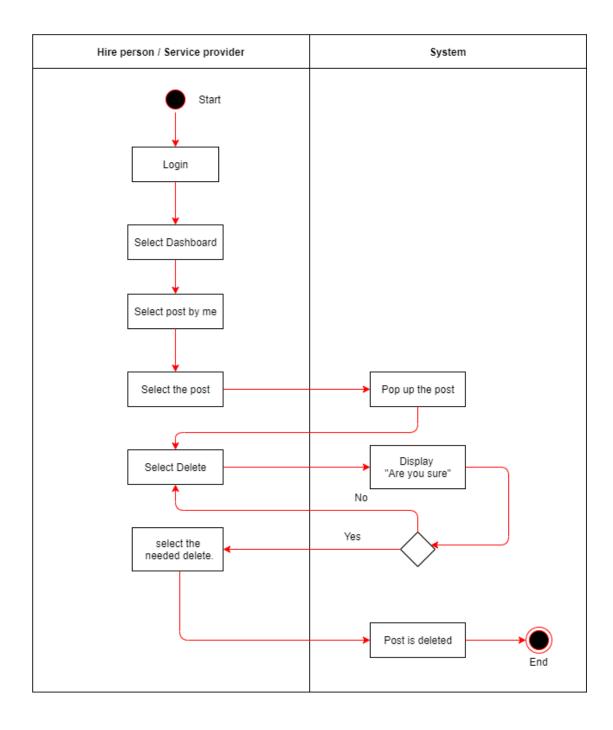
Create Achievement Post - Service provider



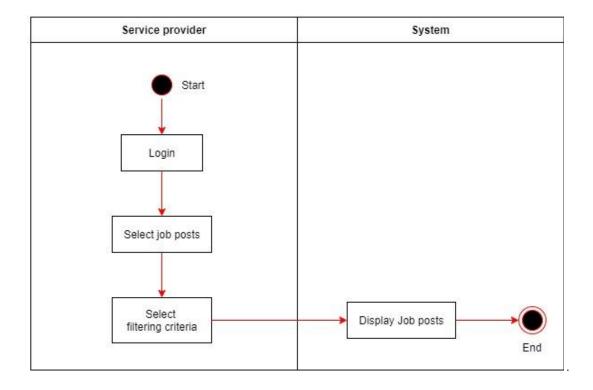
Update Job Post, Achievement Post



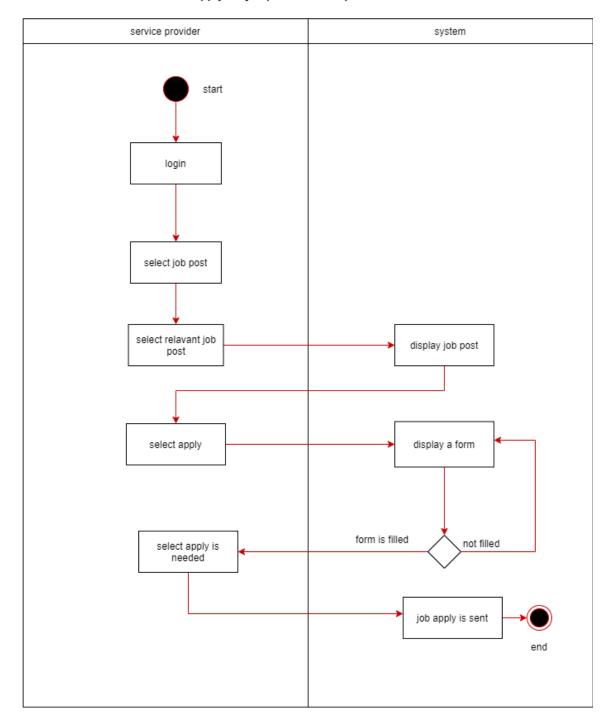
Delete Job Post, Achievement Post



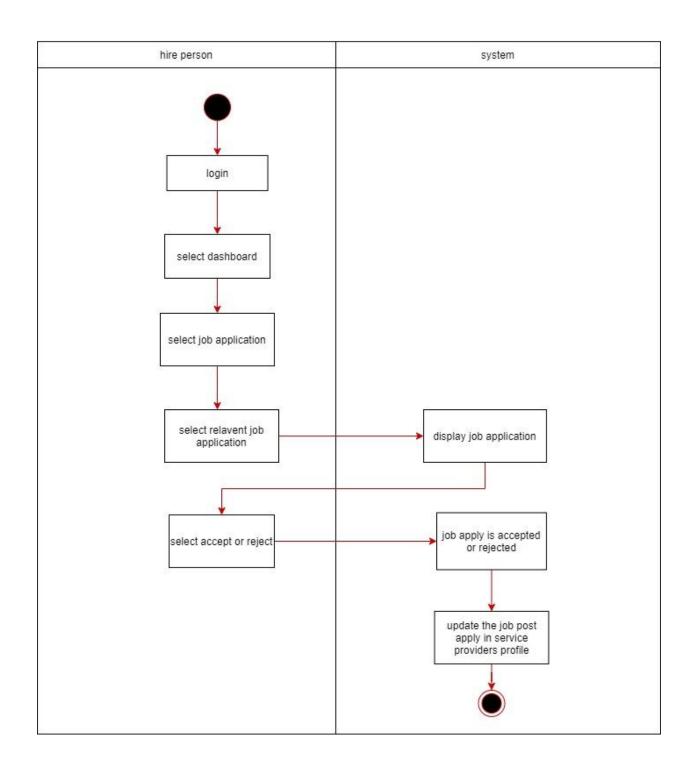
View Job Post - Service Providers



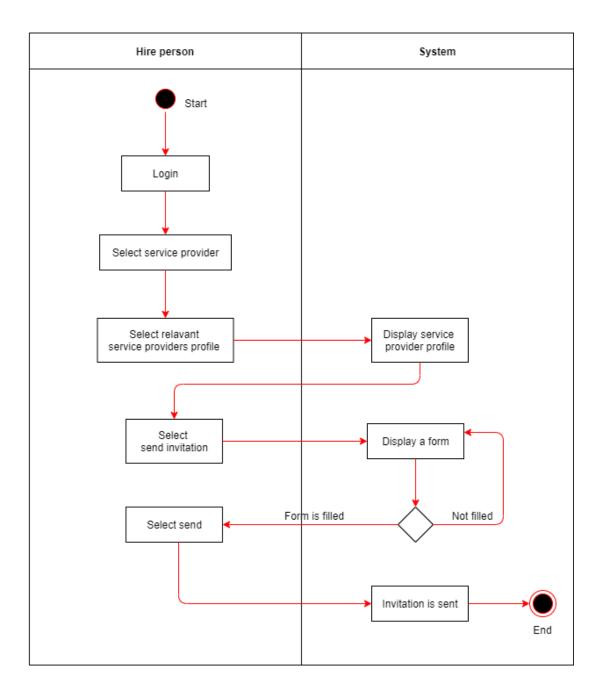
Apply for job post - service provider



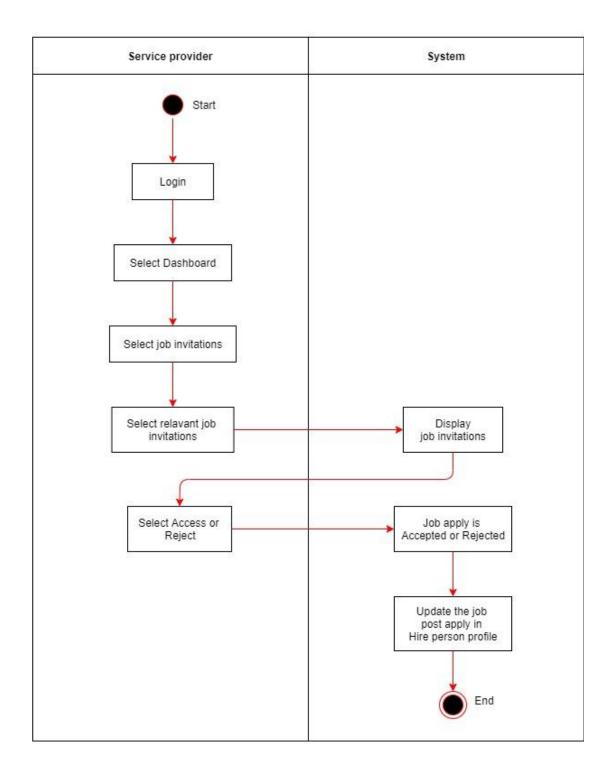
Accept or reject job apply for a post - hire person



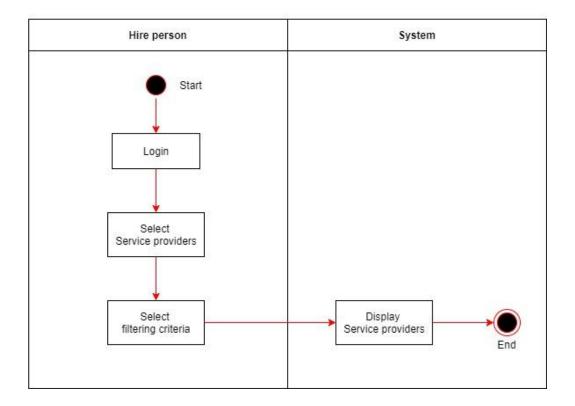
Send Invitation for the Service Provider - Hire Person



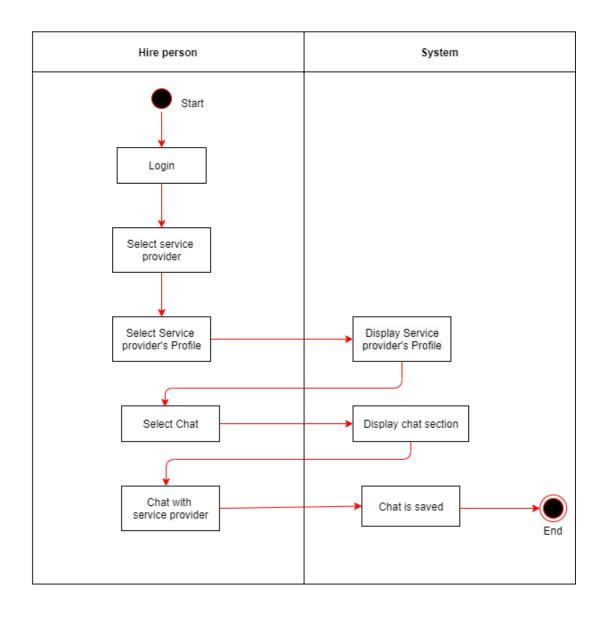
Accept or Reject Job Invitation - Service Provider



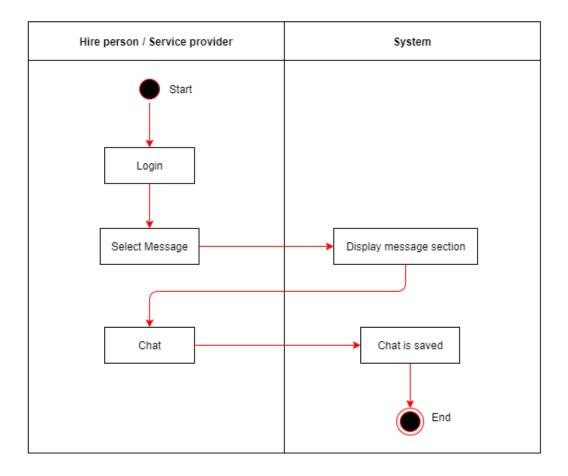
View Service Providers - Hire Person



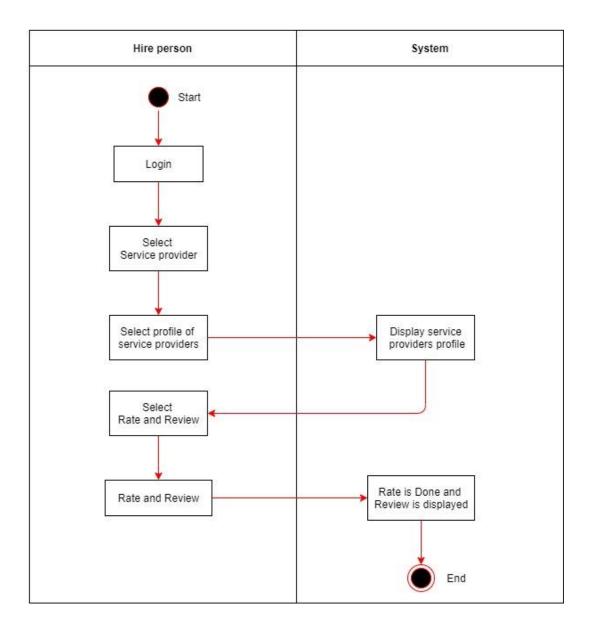
Chat with Service Provider - Hire Person



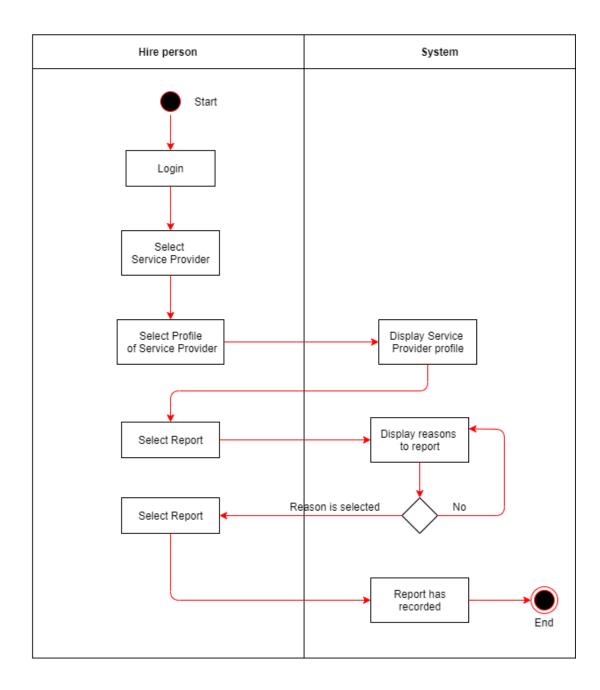
Chat with Co-Admin - Hire Person or Service provider



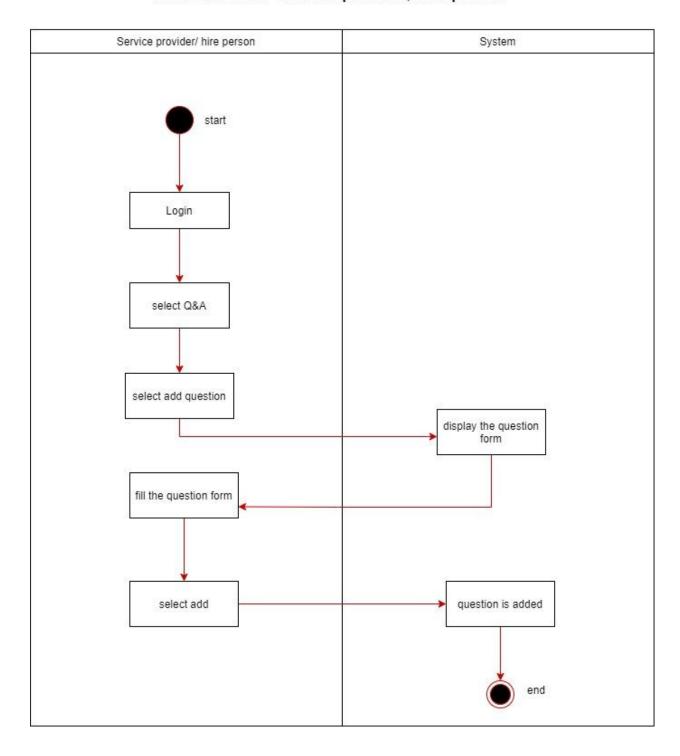
Rate and Review Service Providers - Hire Person



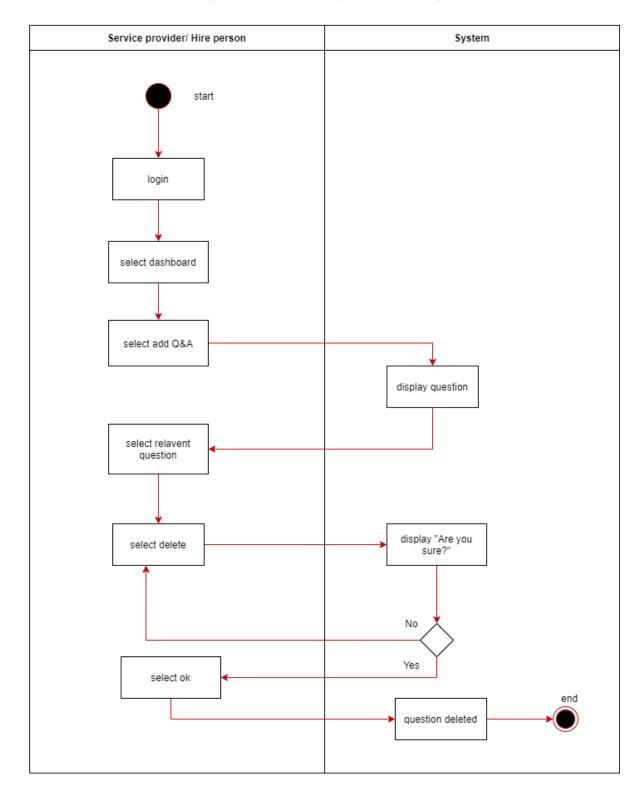
Report Service Provider - Hire Person



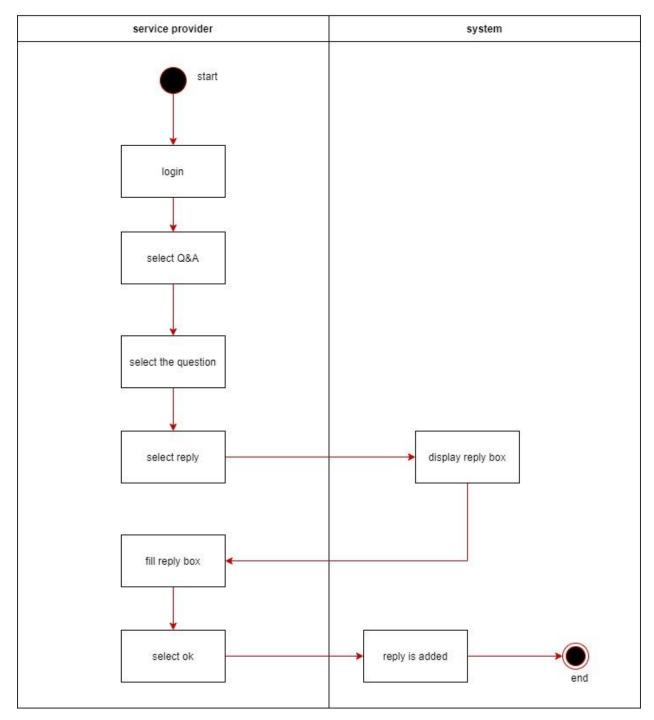
Add Question - Service provider, Hire person



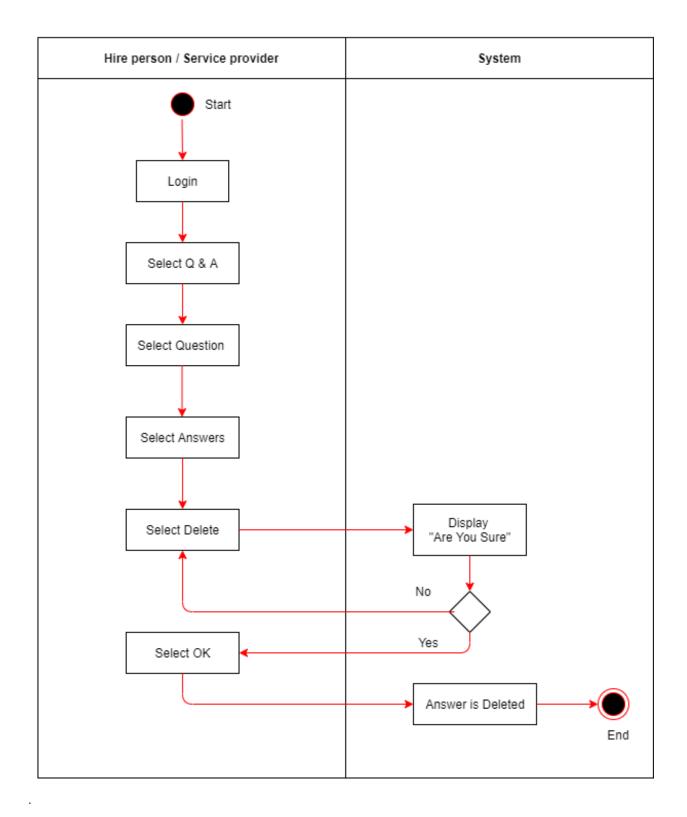
Delete question - Service provider, Hire person



Add answers - service provider

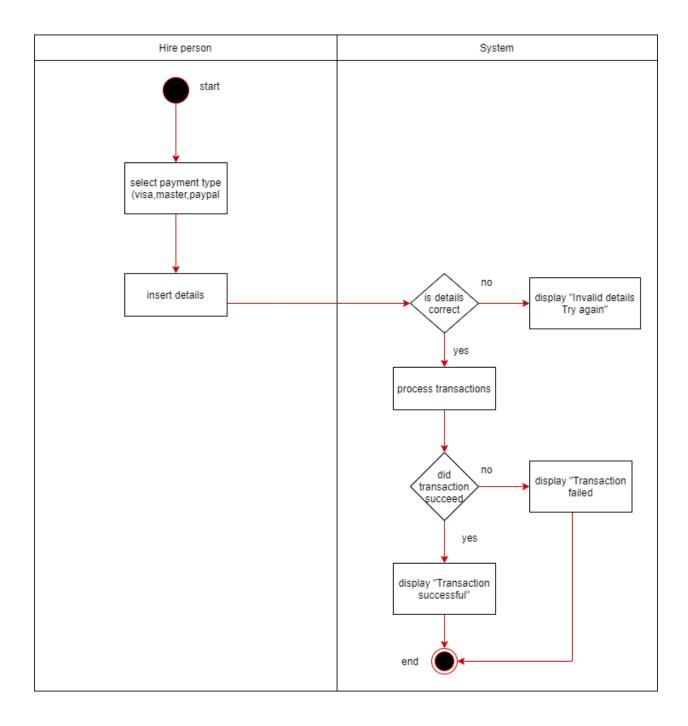


Delete Answers - Hire Person, Service Provider

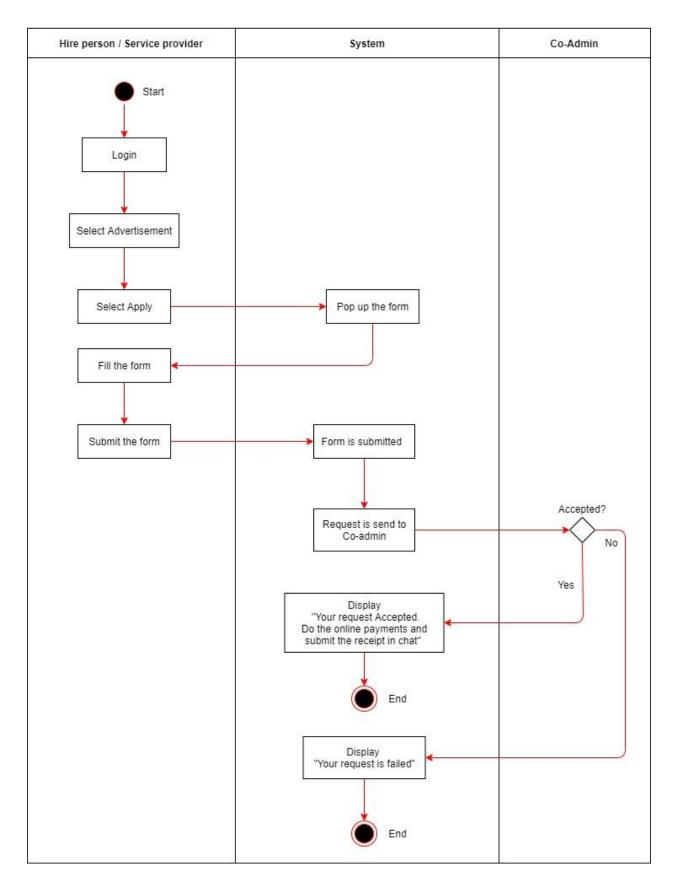


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Online Advance Payment - Hire Person



Ask for a Advertisement - Hire Person, Service Provider



8.2 Quality Attributes Requirements

Following are quality attribute requirements that we identified and how we plan to achieve them.

Usability, Portability, modifiability, Security, Testability, Availability

Usability

- The developed system can be easily accessed since it is a website.
- User friendly and simple user interfaces.
- 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.

• Portability

- The system is by design of a web application.
- Interfaces will support a wide variety of devices and screen resolutions. (Desktop, computers, laptops, tablet computers..etc)

Modifiability

- System is made component by 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)
- o Organized folder structures.
- Use up to date technologies for development to improve the longevity of the system.

• Security

- Authentication using user accounts.
- All login details are sent encrypted.
- All credentials in the online payment module are encrypted and trusted vendors will be used. (Online payment will be done through a secure channel)

Access control to data records(Security of sensitive data)

- System will be planned to backup databases on a given basis, so data loss will not occur
- Each user has his/her own password and a registered email address to be used if a password is lost.
- Every change made to the database records by a user will be saved as history within the system and can be viewed by the admin.
- The database can be viewed by only the admin and co-admin and any other user does not have access to database information.

• Testability

- Since the system is modular each component can be tested separately.
- Debugging is easier.

• Availability

 Users of the system can use the system anytime so, the system should be available 24 hours of the day (Keeping servers available 24/7).

9.0 Technologies to be used

Languages:

- HTML5
- CSS3
- Php
- JavaScript
- MySQL











For testing - Manual testing

Online advance payment module - Sandbox payment method

Online collaboration tools:

- Trello
- Zoom meeting
- Google doc
- GitHub

10.0 Project Timeline

This timeline reflects the integration of the waterfall software development model that is expected to be used throughout the project. The allocated time period for the project is one academic year, but it is desirable to reach the project completion well in advance due to the uncertain circumstances taking place around the world. The project timeline has been mainly broken down into four milestones. Work allocation among members is currently done according to user levels. All members will be taking part in all the development phases of the project.

		Phases of Waterfall model		М	ay		lune	9		Ju	ly		Α	ugı	ıst	5	Sep	tem	ber		Octo	be	r	No	ver	nbe	r [Dec	cem	nber	J	anu	ary	Fe	brı	uary	/ [Ма	rch	٦
Numbe	r			Week 3	Week 4	Week 1	Week 2 Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Woek 4	Week 1	Week 2 Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Woek 1	Week 2	Week 3	Wook 4	Week 1	Week 2	Week 3	Week 1	Week 2	Week 3 Week 4	Week 1	Week 2	Week 3	Week 1	Week 2	Week 3	Week 4
	1.1	Requirement gathering from internet	100%																			10																		
	1.2	Requiement Analysis	100%									7 - 2										9																		
	1.3	Scope Identification	100%												- 10																									
1.0 Requirement Analysis	1.4	Feasibility study	100%																																					
Analysis	1.5	UML Diagram(Use Case, Activity, Component, Class, ER and Mapping	100%									6, to																												
	1.6	Create project proposal and ready for the presentation 8																																						
	1.7	SRS preparation	0%																																					
	2.1	UI Design	0%																																					
2.0 System	2.2	Database Design	0%																																					
Design	2.3	Create Interim system handling report and ready for the presentation	0%																																					
3.0		1st Semester Exam	0%		. 6	- 0					- 3										8													П					П	Ī
4.0		Implementation	0%			T										T	T																Τ							
	5.1	Unit Testing	0%												1																									
5.0 Testing	5.2	Integrated Testing	0%			T									T	T	T	T						T				Ī	T								Г			Ī
	5.3	System Testing	0%								- 5				8									T						T		П		П						Ī
6.0	Deployment		0%			10									Ĉ	I	1				8			T		T					Г	П	T	П	П					Ī
7.0		Maintaince	0%					Γ		П				T	T	T	\top							\exists	T	T	T	T		T	Т	П	T	П	П	Т			П	1

Work allocation:

All work is to be divided according to the user roles of the system.

- H L H Iduwara Hire Person
- V D L Wathsala Service Provider
- D G H Kumari Admin
- S S Malsha Co-Admin

11.0 Declaration

We as members of the project titled Wadak.com, Certify that we will carry out this project according to the guidelines provided by the coordinators and supervisors of the course as well as that we will not incorporate, without acknowledgement, any material previously submitted for a degree or diploma in any university. To the best of our knowledge and brief, the project work will not contain any material previously published or written by another person or ourselves except where due reference is made in the text of appropriate places.

Group Number: CS 18

Index Number	Name of the Student	Signature
19000601	H L H Iduwara	Harith Juwara
19001802	V D L Wathsala	(Vathsala
19000741	D G H Kumari	Hanzika
19000901	S S Malsha	S/Malsha