HOME SOMADHAN

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APPROVAL

This project titled on "**Home Somadhan**", submitted by **Hasibul hasan, ID: 181-35-2452** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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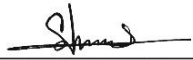
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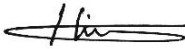Institute of Information Technology
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DECLARATION

It hereby declares that this project has been done by Hasibul Hasan under the supervision of Mr. Farhan Anan Himu, Lecturer, Department of Software Engineering, and Daffodil International University. It also declares that neither this project nor any part of this has been submitted elsewhere for award of any degree.

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ABSTRACT

This application should be managed by administrator. Who will be create the skilled persons list, maintain the users activity and so on. We'll include four skills which will be provided. In this project, administrator can manage the user profile. By using this system, user can solve their household related problems. By using this application, user can hire the household problem solver skilled person.   It is reallyurgent need for any Home problem when any of household problemsare happened.

CHAPTER-01

Introduction

1.1 Project Overview

Home Somadhan system using With Home Solution, you can snappily get computer technician and any kind of service for drawing your home from the comfort of your own home. He can track the technician if he wants. Druggies can add to the list of advance service preferences for future problems.

1.2 Project Purpose

1.2.1 Background

Home Somadhan system using for this operation should be managed by director. Who'll be produce the professed persons list, maintain the druggies exertion and so on. We 'll include four chops which will be handed. In this design, director can manage the stoner profile. By using this system, stoner can break their ménage related problems. By using this operation, stoner can hire the ménage problem solver professed person. It's really critical need for any Home problem when any of ménage problems are happed.

1.2.2 Benefits & Beneficiaries

By successful completion of this project, users will be able to-
We have monitored many benefits from this project. Using this project can solve many problems of a house by hiring a skilled person.

- The main beneficiaries of this web application will be the general users of this system.

- User can hire plumber from application for problem.

- User can hire electrician from application for problem.

- User can gas line expert from application for problem.

- User can hire car spa expert from application for problem.

- User can hire home cleaning expert from application for problem.

- User can garden caring expert from application for problem.

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1.2.3 Goals

We have faced many problems for various household activities. Such as: plumbing, electrical, gas line, home cleaning, car washing and garden caring. It is really urgent need for any person when any of household problems are happened. For solving these problems, special skilled persons such as plumber, electrician etc. are needed highly. There is another problem is laid. That is to find these skilled person on the required time. To solve this problem, we have to decide making a web application. This application can solve the problem of hiring the skilled person. By using this application, user can hire the specific skilled for solving the household problems.

1.3   Stakeholders

There are many members are associate with this project .they have helped to develop the system directly or indirectly

Internal Stakeholder
- Admin

External Stakeholder
- User
- Technician

1.4 Project Schedule

In project management, a timeline is a list of a project's milestones, activities, and deliverables, often with a planned start and end date. It describes when the project started and when it will finish and how many times is spent each of the section of project model and also the release date. Schedules are often used in the areas of project planning and project portfolio management in project management.

1.4.1 Gantt Chart

A Gantt chart is a series of horizontal lines shows the amount of work done or production completed in certain periods in relation to the amount planned for those periods, figure [2]

Weeks→ Works↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Requirement Gather	■	■																
Analysis			■															
Feasibility Study				■	■													
Project Proposal						■												
UML Diagrams							■											
Project UI								■	■	■	■	■	■	■				
Mid-term defense												■						
Implementation									■	■	■	■	■	■				
Testing											■	■	■	■	■			
Documentation																■	■	
Final Defense																		■
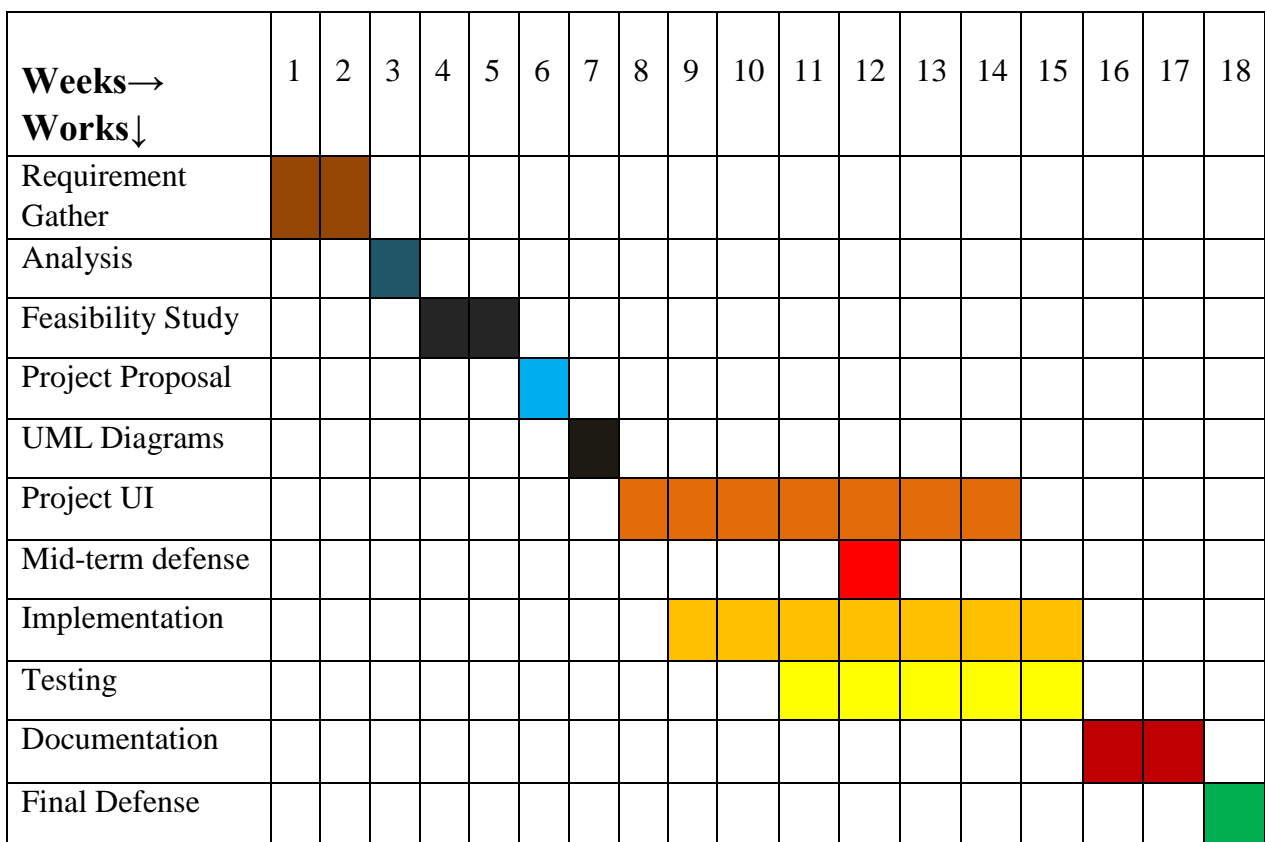
Figure 2: Gantt chart

SOFTWARE REQUIREMENTS SPECIFICATION

2.1 Functional Requirements

Functional requirements are mandatory for any system. For this system functional requirements are mentioned below.

FR-01	Registration
Description	The user must be able to register Authentication of user whenever he/she logs into the system.
Stakeholders	User, Technician

FR-02	Login
Description	Authentication of user whenever he/she logs into the system.
Stakeholders	User, Technician and Admin

FR-03	View Service
Description	We will be able to see all the services we have or the user will be able to see if the service is available by searching for service.
Stakeholders	User

FR-04	Coupon Apply
Description	After selecting the user service, if there is a coupon code for that service, then the user can apply and get the specified amount of money discount.
Stakeholders	User

FR-04	**Confirm Service**
Description	After selecting the user service, if there is a coupon code for that service, then the user can apply and get the specified amount of money discount. Then confirm with your correct address for that service.
Stakeholders	User

FR-04	**Payment**
Description	After selecting the user service, if there is a coupon code for that service, then the user can apply and get the specified amount of money discount. Then confirm with your correct address for that service. After confirming the service the user will be taken to the payment sector where you can take the service by paying the specified amount of money
Stakeholders	User

FR-09	**View Profile**
Description	User can easily view his profile and show all service or others piton.
Stakeholders	User

FR-09	**View Profile**
Description	Technician can easily view his profile and show all service or others piton.
Stakeholders	Technician

FR-09	**Order Details**

Description	User confirm all services details show for specific services.
Stakeholders	User

FR-09	**Service Tracked**
Description	After confirming the service you will be able to see if the technician has been assigned for that service and when the technician will be sent show here information find out.
Stakeholders	User

FR-10	**Category Manage**
Description	Here you can see the admin category. You can add the category. If there is a mistake while adding the category or if you need to change it in future, you can update the admin category and delete the category if you don't need it.
Stakeholders	Admin

FR-10	**Coupon Manage**
Description	Here you can see the admin coupon. You can add the coupon. If there is a mistake while adding the coupon or if you need to change it in future, you can update the admin coupon and delete the coupon if you don't need it.
Stakeholders	Admin

FR-10	**Service Manage**
Description	Here you can see the admin service. You can add the service. If there is a mistake while adding the service or if you need to change it in future, you can update the admin service and delete the service if you don't need it.
Stakeholders	Admin

FR-10	**Setting Manage**
Description	Here you can see the admin setting. You can add the setting. If there is a mistake while adding the setting or if you need to change it in future, you can update the admin setting and delete the setting if you don't need it.
Stakeholders	Admin

FR-10	**Technician Manage**
Description	Here you can see the admin technician. You can add the technician. If there is a mistake while adding the technician or if you need to change it in future, you can update the admin technician and delete the technician if you don't need it.
Stakeholders	Admin

FR-10	**Slider Manage**
Description	Here you can see the admin slider. You can add the slider. If there is a mistake while adding the slider or if you need to change it in future, you can update the admin slider and delete the slider if you don't need it.
Stakeholders	Admin

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FR-10	**Technician Create Account**
Description	If a technician comes for a job and we need that technician then we will maintain the technician's account so that if any user wants then we can send that technician for his job.
Stakeholders	Admin

FR-10	**Permeation Technician Account**
Description	When the technician opens his / her own account, his / her request will go to the admin. Admin will confirm his account if he is the right technician after verification, otherwise he can delete that account.
Stakeholders	Admin

FR-10	**Technician Assign**
Description	If a user confirms a service, the admin will verify it and after assigning it, assign the technician needed for that service to that job. Then the technician will see and reach the user's address as soon as possible.
Stakeholders	Admin

FR-10	**Generate Report**
Description	Here you can see all the reports of admin requesting lease for any number of services in days, month, and year. Or admin date wise, month, year search admin can see all the reports.
Stakeholders	Admin

2.2 Non Functional Requirements

NFR-01	**Security**
Description	Using token-based authentication, session, validation 2FA it will be secure from unauthorized access.
Priority	High

NFR-02	**Availability**
Description	The system should work 24/7 as user can get access and service.
Priority	High

NFR-03	**Accuracy**
Description	Data or process requirement concerned with defining the precision which the solution will record or produce data.
Priority	High

NFR-04	**Maintenance**
Description	Its way how easy to support, change and enhance the system.
Priority	Medium

2.3 Performance Requirements

2.3.1 Speed and Latency Requirements

1. Dataset would be inserted in MySQL Databases
2. UI design-build on the user fulfills table data set and show.

2.3.2 Precisions or Accuracy Requirements

1. All user capable to show accurate page.
2. Doctor can Update any information
3. Admin can manage User and Technician Profile.

2.3.3 Capacity Requirements

1. At time multiple users can use this system.

2.4 Dependability Requirements

2.4.1 Reliability Requirements

1. Admin, Technician, User should be log in to the system using his or her valid email and password

2.4.2 Availability Requirements

1. When we are using this system need to run apace server.
2. Need to know command for run properly and easily.
3. This is a web application should run on a web browser. (Preferable browser is Chrome, Firefox, Internet Explorer,).

2.5 Maintainability and Supportability Requirements

2.5.1 Maintenance Requirements

1. Web application did not modify or change.
2. If we need to data need to recover or update then need to using command line.
3. We are need to maintainers all security and others works.

2.5.2 Supportability Requirements

      1. When the system did not work perfectly then need to check database and others work.

      2. Update security patch and others system.

2.5.3 Adaptability Requirements

      1. This is very important website.

      2. This website can help to user then they can get all services easily.

2.5.4 Scalability or Extensibility Requirements

      1. This website is good and reliable for each and every one.

      2. Website is good for help

2.6 Security Requirements

2.6.1 Access Requirements

      1. Only for registered user can access this system

      2. Guest cannot allow this system

2.6.2 Integrity Requirements

      1. This website cannot access another user like guest user.

2.6.3 Privacy Requirement

      1. Here we are using activate user Profile system.

      2. Registered Doctor can check Patient Profile

2.7 Usability and Human Interaction Requirements

This requirement defines how to meet the physical needs of the intended users of our website.

2.7.1 Ease of Use Requirements

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The system is easy to use and can easily be understood.

UH-01	The system must be usable for Admin, Technician, User
Description	The system indicates the several possible that the users.
Stakeholders	Admin, Technician, User.

2.7.2 Understand Ability and Politeness Requirements

UH-02	The features of the any Service for System.
Description	The system can more efficiently ease of use more added features. The system is understanding ability for both users. The system not use any term that is not specified in this website.
Stakeholders	Admin

2.7.3 Accessibility Requirements

There are no access requirements beside those that has been outline in the below:

AR-1: Log in as a Admin

AR-1: Log in as a Technician

AR-1: Log in as a User

AR-1: Log out as Admin

AR-1: Log out as Technician

AR-1: Log out as User

To get access to this system or a specific module the system must provide a control. In order to prevent anyone to exploit stolen all user's passwords must be encrypted in the hash process

2.7.4 User Documentation Requirements

UH-03	The system developer documentation
Description	Develop this project we have specified requirements of user's documentation. The teams are involved to this project documentation
Stakeholders	System Developer

2.8 Look and Feel Requirements

The look and feel requirements describe the desired spirit the mood, the style of the product's appearance. The requirements specify the intention of the appearance and are not detailed design of an interfaces.

2.8.1 Appearance Requirements

It should be clear to the System Admin User and Technician needs to be filled and which can be left blank in this system.

LF-01	Labels of mandatory fields must be bold.
Description	Label of obligation fields must be bold to identify them as being of obligation.
Stakeholders	User , Technician ,Admin

2.8.2 Style Requirements

We will provide a website user interface. This requirement does not only define the necessity to use a css but although the requirements regarding's the css's content as well as css framework like bootstrap.

LF-02	The look and feel must be controllable using a style sheets.
Description	The styling of the elements of the web application user interface will be define using css, JS, Bootstrap.
Stakeholders	Admin

2.9 Operational and Environmental Requirements

This requirement focusses on how the users operate the system, including interfaces and interoperability with other systems. The requirement established how well and under what condition the system must perform.

2.9.1 Expected Physical Requirements

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1. There are no specific expected physical requirements.

2.9.2 The Requirements for Interfacing with Adjacent System

1. There is no specific interface with adjacent system requirements
.

2.9.3 Release Requirements

1. There is no specific release requirement but in the project schedule. It was described briefly.

2.10 Legal Requirements

These requirements consider any violence of rules and regulation and which rules should be followers to maintainers these systems.

2.10.1 Compliance Requirements

1. There are no specific compliance requirements.

2.10.2 Standard Requirements

1. There are no specific standard requirement

3.1 Use Case Diagram
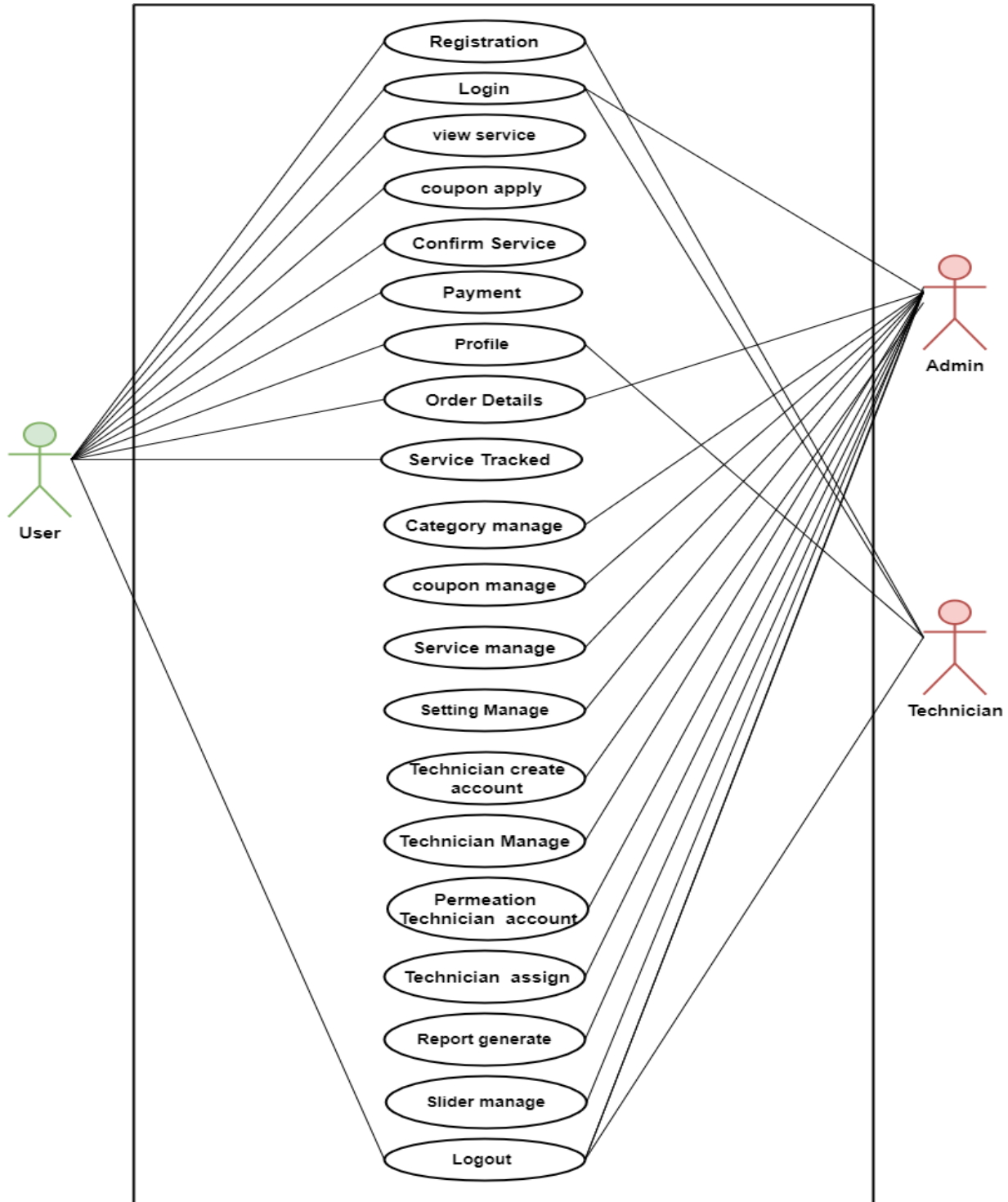
3.2 Use Case Description

3.2.1 Registration System

Use Case	Registration	
Goal	Anyone can apply for register	
Preconditions	Must be fulfil register required fields.	
Success End Condition	System get registration applications from the public.	
Failed End Condition	System cannot get registration applications from the public.	
Primary Actors:	Public	
Secondary Actors	N/A	
Trigger	Access this website.	
Description/main Success Scenario	**Step**	**Action**
	1.	The public can register into this website
	2.	Public enter the URL & the URL show the "Registration" pages.
	3.	Public enter all required information in "Registration" form.
Alternative Flows	**Step**	**Branching Action**
	1.	Get "Registration" page again load if any error occurred.
Quality Requirements	**Step**	**Requirement**
	1.	Must be authentic as Public. And also edit or update these applications.

3.2.2 Login and Log out System

Use Case	Login and log out system	
Goal	System Admin, Doctor, Patient can access the system. And finally, Log out.	
Preconditions	N/A	
Success End Condition	System Admin, Doctor, Patient can access this system	
Failed End Condition	System Admin, Doctor, Patient can access the system	
Primary Actors:	Admin, Technician, User	
Secondary Actors	N/A	
Trigger	Access This System	
Description/main Success Scenario	Step	Action
	1	System Admin, Technician, User
	2	The user enters his or her email id and password in the returning user section of the sign in screen.
Alternative Flows	Step	Branching Action
	1a	The user enters his or her username and password
Quality Requirements	Step	Requirement
	1	When user login then needs to correct email id for login and password.

3.2.3 View Service

Use Case	View Services	
Goal	User and Technician can easily view Services We will be able to see all the services we have or the user will be able to see if the service is available by searching for service.	
Preconditions	You may be logged in and you may not be logged in.	
Success End Condition	System successfully view service for user	
Failed End Condition	Cannot view service	
Primary Actors:	User	
Secondary Actors	N/A	
Trigger	View service	
Description/main Success Scenario	**Step**	**Action**
	1	User and Technician view service an get service
	2	Successfully view service
Alternative Flows	**Step**	**Branching Action**
	1a	N/A
Quality Requirements	**Step**	**Requirement**
	1	You may be logged in and you may not be logged in.

3.2.4 Capone Apply

Use Case	Capone Apply	
Goal	After selecting the user service, if there is a coupon code for that service, then the user can apply and get the specified amount of money discount.	
Preconditions	Must be logged in to the system.	
Success End Condition	System successfully apply coupon for user	
Failed End Condition	Cannot apply coupon	
Primary Actors:	User	
Secondary Actors	N/A	
Trigger	View service	
Description/main Success Scenario	**Step**	**Action**
	1	User apply coupon and discount service price.
	2	Successfully apply coupon
Alternative Flows	**Step**	**Branching Action**
	1a	N/A
Quality Requirements	**Step**	**Requirement**
	1	Must be logged in to the system.

3.2.5 Confirm Service

Use Case	Confirm Service
Goal	After selecting the user service, if there is a coupon code for that service, then the user can apply and get the specified amount of money discount. Then confirm with your correct address for that service.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully Confirm Service for user.
Failed End Condition	Cannot Confirm Service
Primary Actors:	User
Secondary Actors	N/A
Trigger	Confirm Service

Description/main Success Scenario	Step	Action
	1	User Confirm Service and provide service.
	2	Successfully Confirm Service

Alternative Flows	Step	Branching Action
	1a	N/A

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.6 Payment

Use Case	Payment
Goal	After selecting the user service, if there is a coupon code for that service, then the user can apply and get the specified amount of money discount. Then confirm with your correct address for that service. After confirming the service the user will be taken to the payment sector where you can take the service by paying the specified amount of money.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully Payment for service.
Failed End Condition	Cannot Payment
Primary Actors:	User
Secondary Actors	N/A
Trigger	Payment

Description/main Success Scenario	Step	Action
	1	User Payment and provide service.
	2	Successfully Payment

Alternative Flows	Step	Branching Action
	1a	N/A

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.7 Technician view profile

Use Case	Technician view profile
Goal	Technician can easily view his profile and update profile.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully view profile for Technician.
Failed End Condition	Cannot Technician view profile
Primary Actors:	Technician
Secondary Actors	N/A
Trigger	Technician view profile

Description/main Success Scenario	Step	Action
	1	User Payment and provide service.
	2	Successfully Payment

Alternative Flows	Step	Branching Action
	1a	N/A

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.8 Order Details

Use Case	Order Details
Goal	User confirm all services details show for specific services.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully view order details for user.
Failed End Condition	Cannot Technician view order details
Primary Actors:	User
Secondary Actors	N/A
Trigger	View order details

Description/main Success Scenario	Step	Action
	1	User view order details.
	2	Successfully view order details

Alternative Flows	Step	Branching Action
	1a	N/A

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.9 Service Tracked

Use Case	Service Tracked	
Goal	After confirming the service you will be able to see if the technician has been assigned for that service and when the technician will be sent show here information find out.	
Preconditions	Must be logged in to the system.	
Success End Condition	System successfully tracked service for service.	
Failed End Condition	Cannot tracked service	
Primary Actors:	User	
Secondary Actors	N/A	
Trigger	tracked service	
Description/main Success Scenario	**Step**	**Action**
	1	User tracked service.
	2	Successfully tracked service
Alternative Flows	**Step**	**Branching Action**
	1a	N/A
Quality Requirements	**Step**	**Requirement**
	1	Must be logged in to the system.

3.2.10 Category Manage

Use Case	Category Manage	
Goal	Here you can see the admin category. You can add the category. If there is a mistake while adding the category or if you need to change it in future, you can update the admin category and delete the category if you don't need it.	
Preconditions	Must be logged in to the system.	
Success End Condition	System successfully mane category for admin.	
Failed End Condition	Cannot manage service	
Primary Actors:	Admin	
Secondary Actors	N/A	
Trigger	manage service	
Description/main Success Scenario	**Step**	**Action**
	1	Admin can easily manage category.
	2	Enter the URL & the URL show the "manage category" pages.
Alternative Flows	**Step**	**Branching Action**
	1a	Get "manage category" page again load if any error occurred.
Quality Requirements	**Step**	**Requirement**
	1	Must be logged in to the system.

3.2.11 Coupon Manage

Use Case	Coupon Manage
Goal	Here you can see the admin coupon. You can add the coupon. If there is a mistake while adding the coupon or if you need to change it in future, you can update the admin coupon and delete the coupon if you don't need it.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully mane coupon manage for admin.
Failed End Condition	Cannot coupon manage
Primary Actors:	Admin
Secondary Actors	N/A
Trigger	coupon manage

Description/main Success Scenario	Step	Action
	1	Admin can easily coupon manage.
	2	Enter the URL & the URL show the "coupon manage" pages.

Alternative Flows	Step	Branching Action
	1a	Get "coupon manage" page again load if any error occurred.

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.12 Service Manage

Use Case	Service Manage
Goal	Here you can see the admin service. You can add the service. If there is a mistake while adding the service or if you need to change it in future, you can update the admin service and delete the service if you don't need it.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully mane service manage for admin.
Failed End Condition	Cannot service manage
Primary Actors:	Admin
Secondary Actors	N/A
Trigger	service manage

Description/main Success Scenario	Step	Action
	1	Admin can easily service manage.
	2	Enter the URL & the URL show the "service manage" pages.

Alternative Flows	Step	Branching Action
	1a	Get "service manage" page again load if any error occurred.

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.13 Setting Manage

Use Case	Setting Manage
Goal	Here you can see the admin setting. You can add the setting. If there is a mistake while adding the setting or if you need to change it in future, you can update the admin setting and delete the setting if you don't need it.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully mane setting manage for admin.
Failed End Condition	Cannot setting manage
Primary Actors:	Admin
Secondary Actors	N/A
Trigger	setting manage

Description/main Success Scenario	Step	Action
	1	Admin can easily setting manage.
	2	Enter the URL & the URL show the "setting manage" pages.

Alternative Flows	Step	Branching Action
	1a	Get "setting manage" page again load if any error occurred.

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.14 Technician Manage

Use Case	Technician Manage
Goal	Here you can see the admin technician. You can add the technician. If there is a mistake while adding the technician or if you need to change it in future, you can update the admin technician and delete the technician if you don't need it.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully mane technician manage for admin.
Failed End Condition	Cannot technician manage
Primary Actors:	Admin
Secondary Actors	N/A
Trigger	setting manage

Description/main Success Scenario	Step	Action
	1	Admin can easily technician manage.
	2	Enter the URL & the URL show the "technician manage" pages.

Alternative Flows	Step	Branching Action
	1a	Get "technician manage" page again load if any error occurred.

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.15 Slider Manage

Use Case	Slider Manage
Goal	Here you can see the admin slider. You can add the slider. If there is a mistake while adding the slider or if you need to change it in future, you can update the admin slider and delete the slider if you don't need it.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully mane slider manage for admin.
Failed End Condition	Cannot slider manage
Primary Actors:	Admin
Secondary Actors	N/A
Trigger	slider manage

Description/main Success Scenario	Step	Action
	1	Admin can easily slider manage.
	2	Enter the URL & the URL show the "slider manage" pages.

Alternative Flows	Step	Branching Action
	1a	Get "slider manage" page again load if any error occurred.

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.16 Technician Create Account

Use Case	Technician create account	
Goal	If a technician comes for a job and we need that technician then we will maintain the technician's account so that if any user wants then we can send that technician for his job.	
Preconditions	Must be logged in to the system.	
Success End Condition	System successfully mane technician create account for admin.	
Failed End Condition	Cannot technician create account	
Primary Actors:	Admin	
Secondary Actors	N/A	
Trigger	technician create account	
Description/main Success Scenario	**Step**	**Action**
	1	Admin can easily manage technician create account.
	2	Enter the URL & the URL show the "technician create account" pages.
Alternative Flows	**Step**	**Branching Action**
	1a	Get "technician create account" page again load if any error occurred.
Quality Requirements	**Step**	**Requirement**
	1	Must be logged in to the system.

3.2.17 Permeation Technician Account

Use Case	Permeation technician account
Goal	When the technician opens his / her own account, his / her request will go to the admin. Admin will confirm his account if he is the right technician after verification, otherwise he can delete that account.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully mane permeation technician account for admin.
Failed End Condition	Cannot permeation technician account
Primary Actors:	Admin
Secondary Actors	N/A
Trigger	permeation technician account

Description/main Success Scenario	Step	Action
	1	Admin can easily manage permeation technician account.
	2	Enter the URL & the URL show the "permeation technician account" pages.

Alternative Flows	Step	Branching Action
	1a	Get "permeation technician account" page again load if any error occurred.

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.18 Technician Assign

Use Case	Technician Assign
Goal	If a user confirms a service, the admin will verify it and after assigning it, assign the technician needed for that service to that job. Then the technician will see and reach the user's address as soon as possible.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully mane technician assign for admin.
Failed End Condition	Cannot technician assign
Primary Actors:	Admin
Secondary Actors	N/A
Trigger	technician assign

Description/main Success Scenario	Step	Action
	1	Admin can easily manage technician assign.
	2	Enter the URL & the URL show the "technician assign" pages.

Alternative Flows	Step	Branching Action
	1a	Get "technician assign" page again load if any error occurred.

Quality Requirements	Step	Requirement
	1	Must be logged in to the system.

3.2.19 Generate Report

Use Case	Generate Report
Goal	Here you can see all the reports of admin requesting lease for any number of services in days, month, and year. Or admin date wise, month, year search admin can see all the reports.
Preconditions	Must be logged in to the system.
Success End Condition	System successfully mane generate report for admin.
Failed End Condition	Cannot generate report.
Primary Actors:	Admin
Secondary Actors	N/A
Trigger	generate report

Description/main Success Scenario	**Step**	**Action**
	1	Admin can easily manage generate report
	2	Enter the URL & the URL show the "generate report" pages.

Alternative Flows	**Step**	**Branching Action**
	1a	Get "generate report" page again load if any error occurred.

Quality Requirements	**Step**	**Requirement**
	1	Must be logged in to the system.

3.3 Activity Diagram

3.3.1 Registration
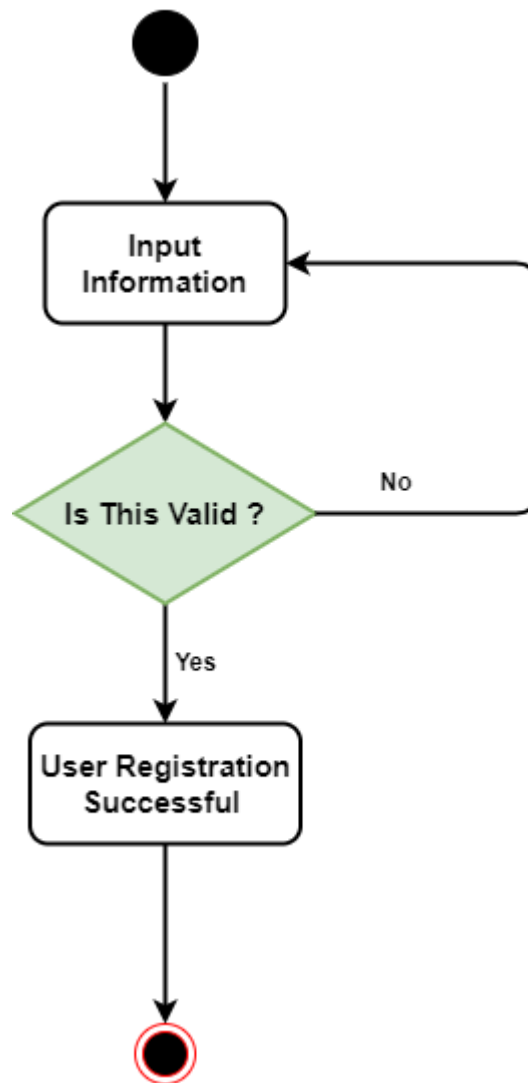
3.3.2 Login
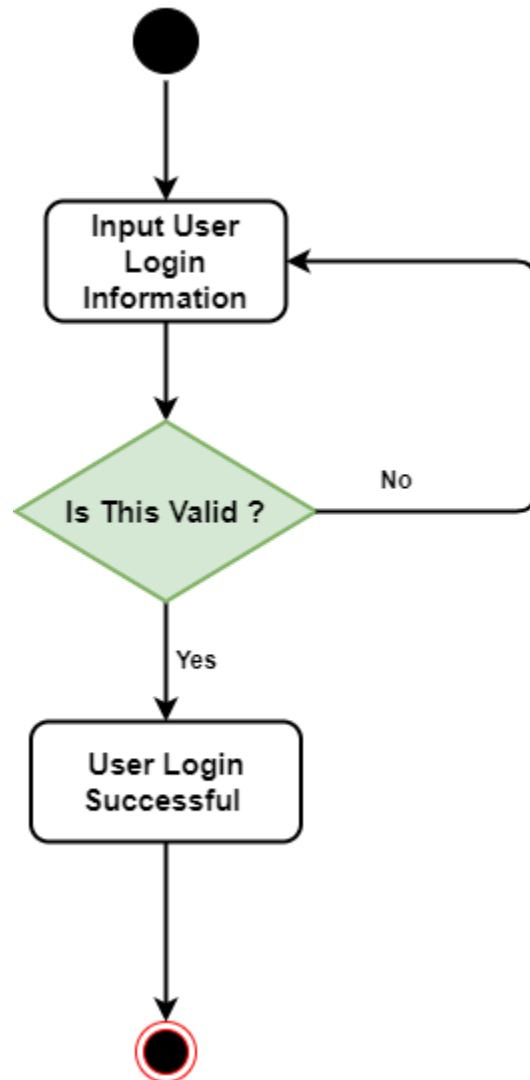
3.3.3 View service
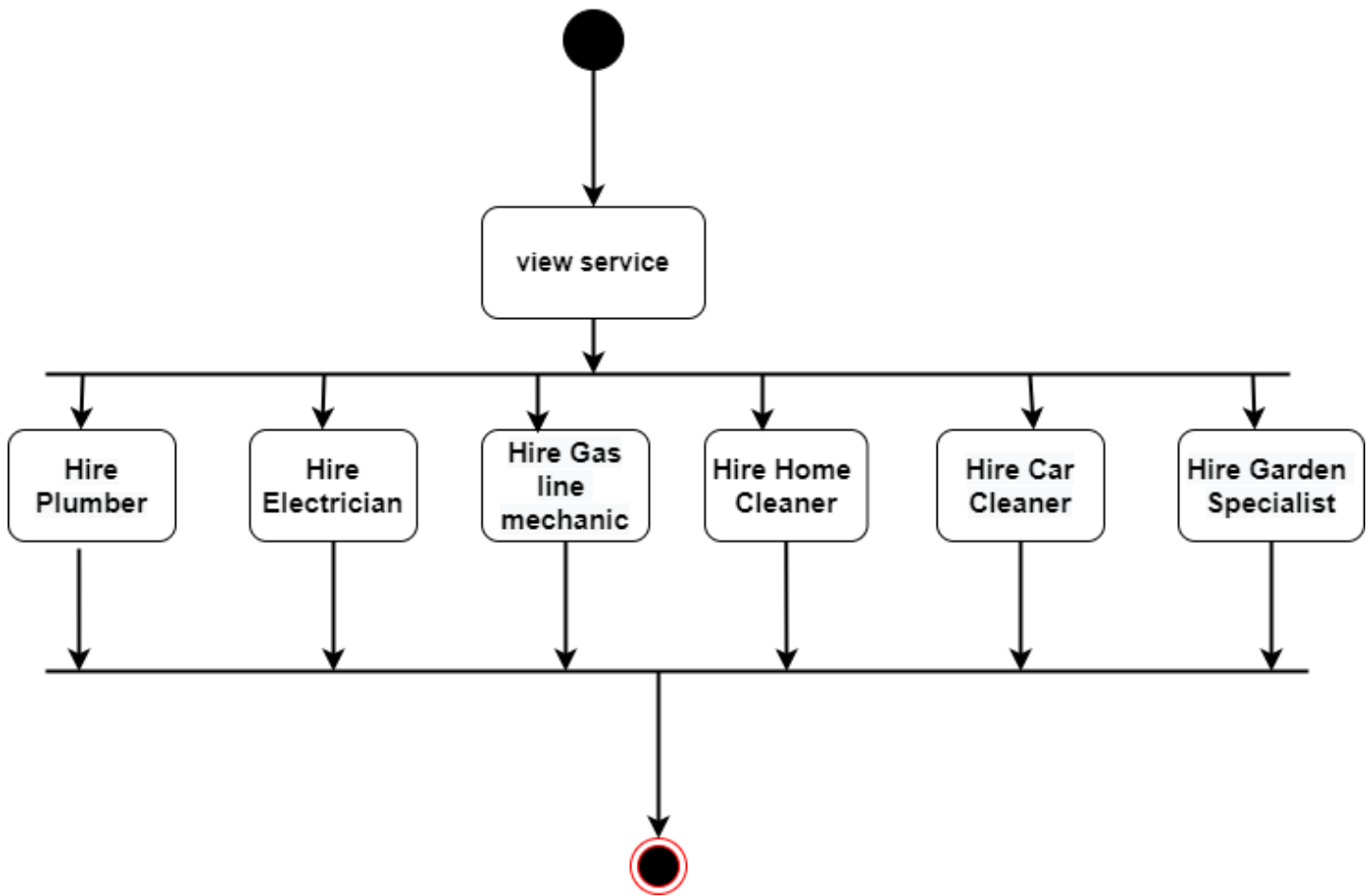
3.3.4 Coupon apply
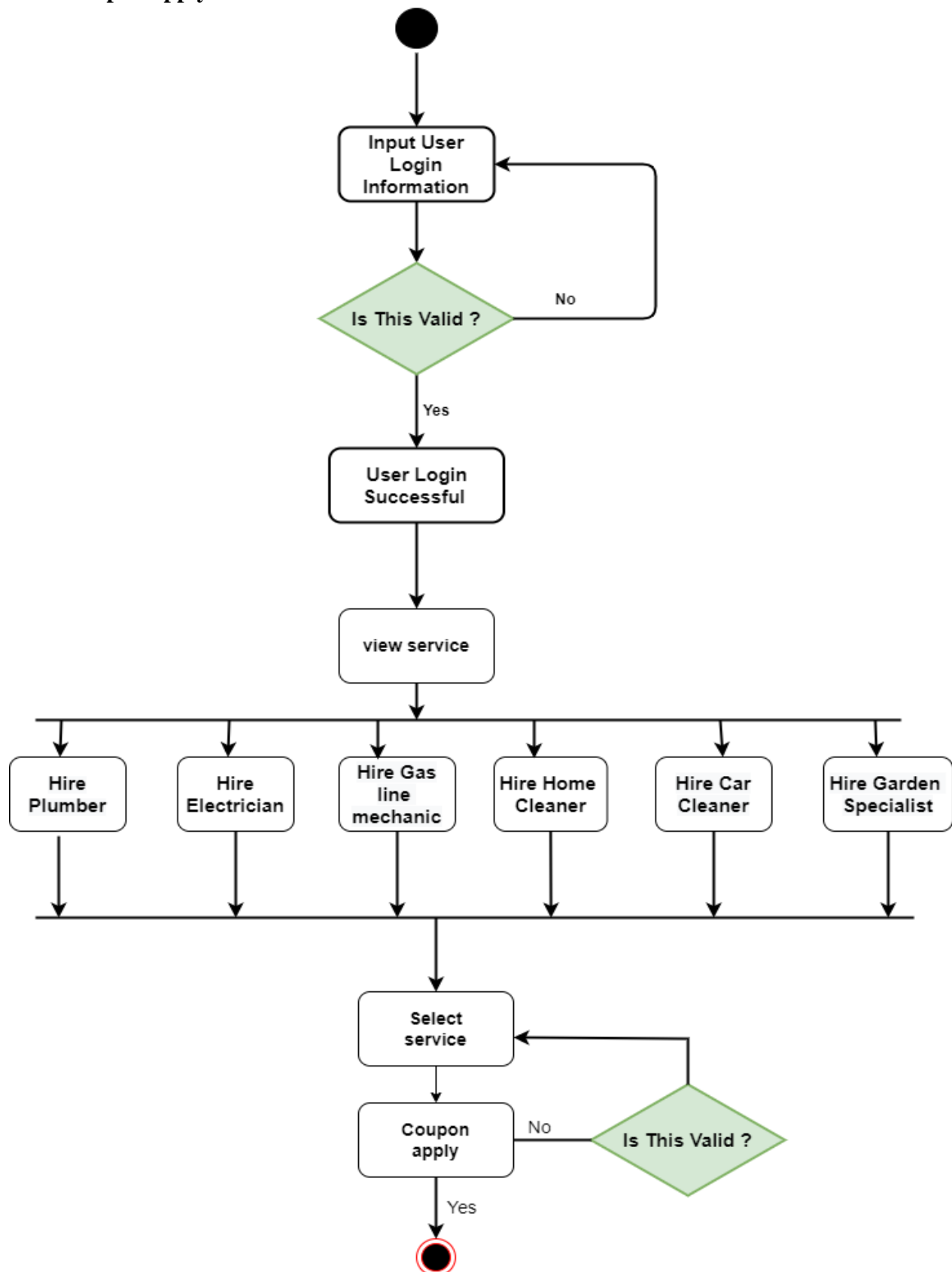
3.3.5 Confirm Service
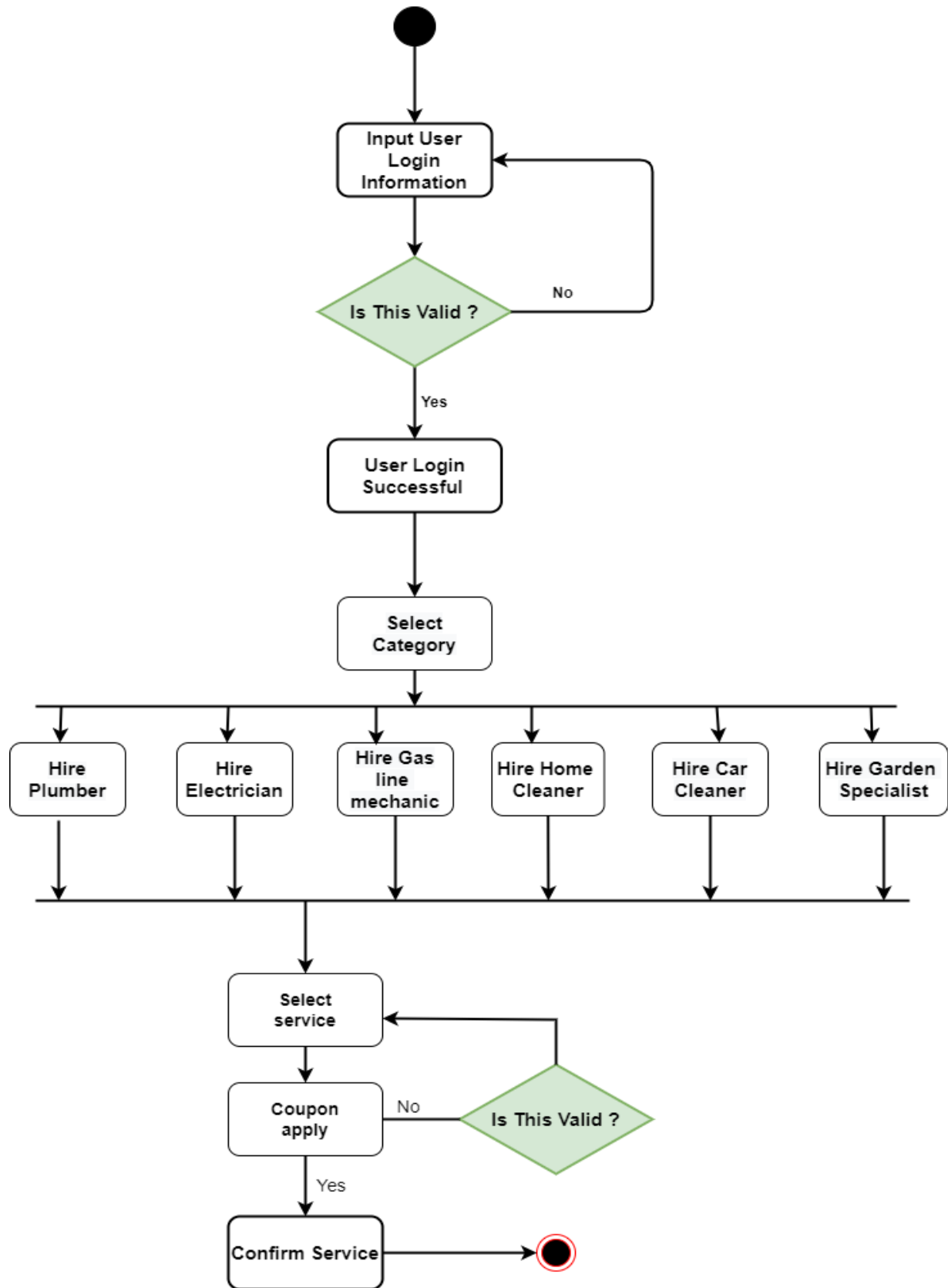
3.3.6 Payment
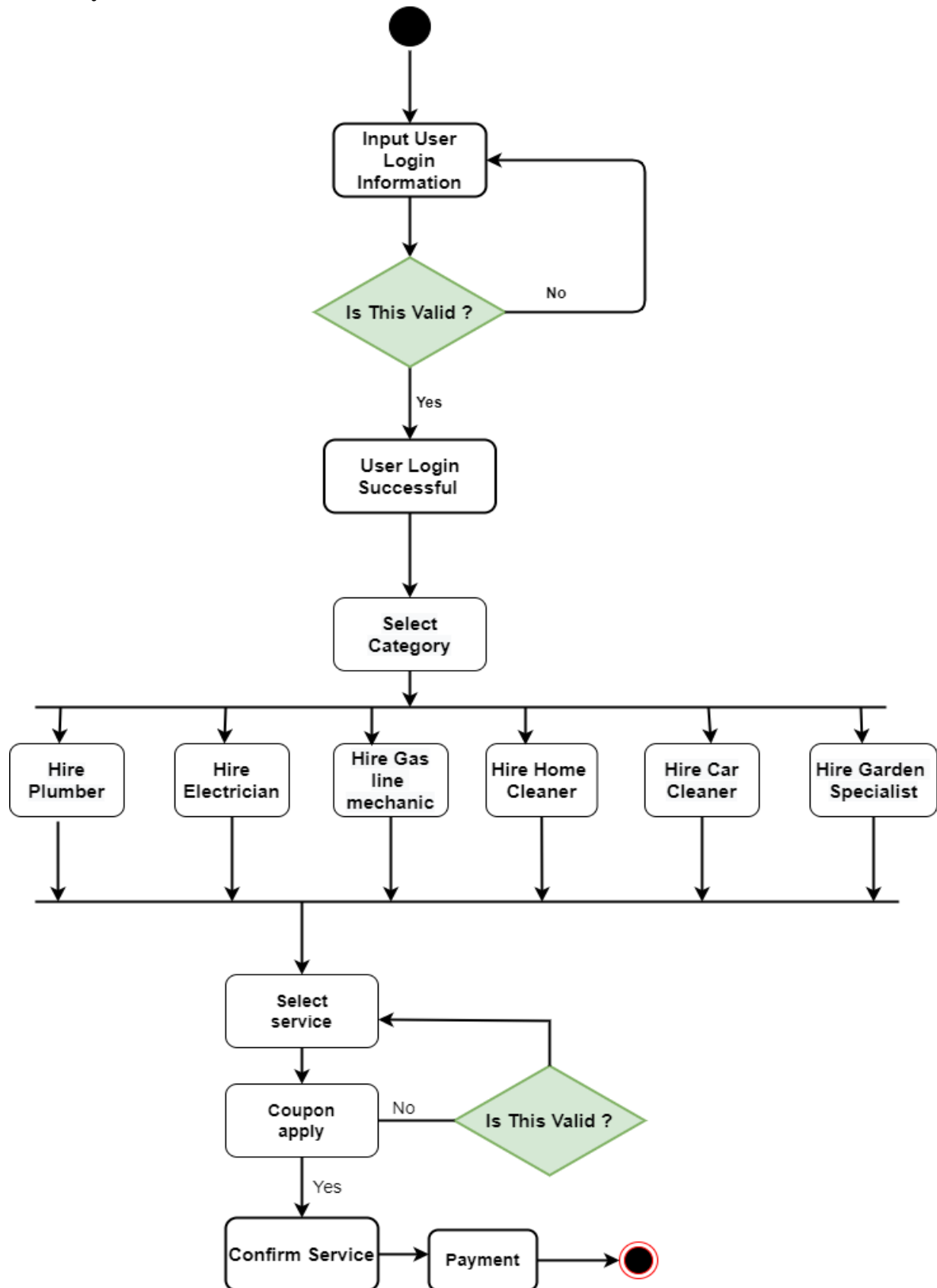
3.3.7 Manage User Profile
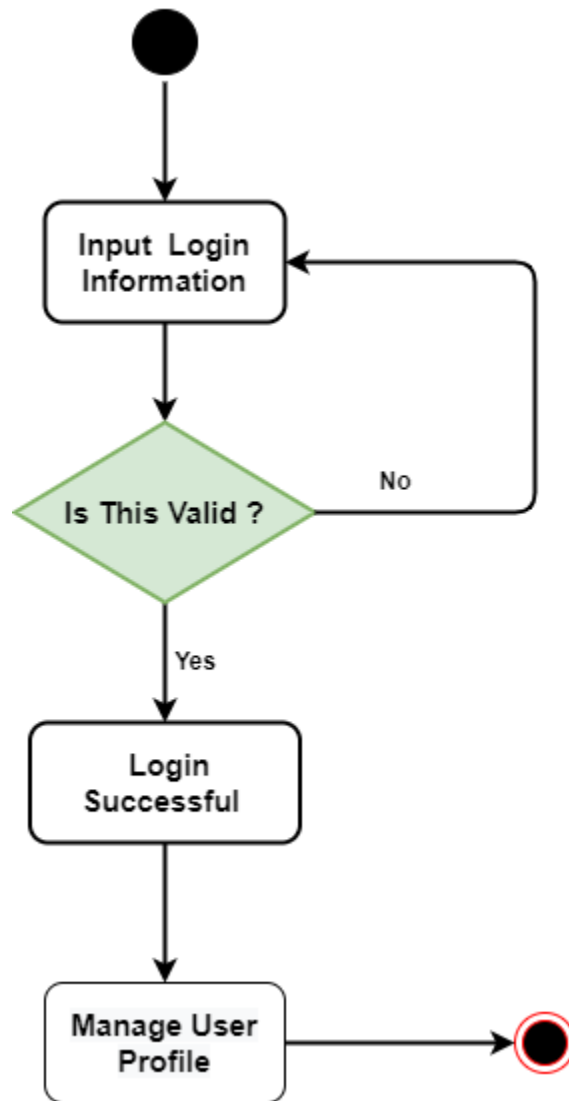
3.3.8 Oder Datils
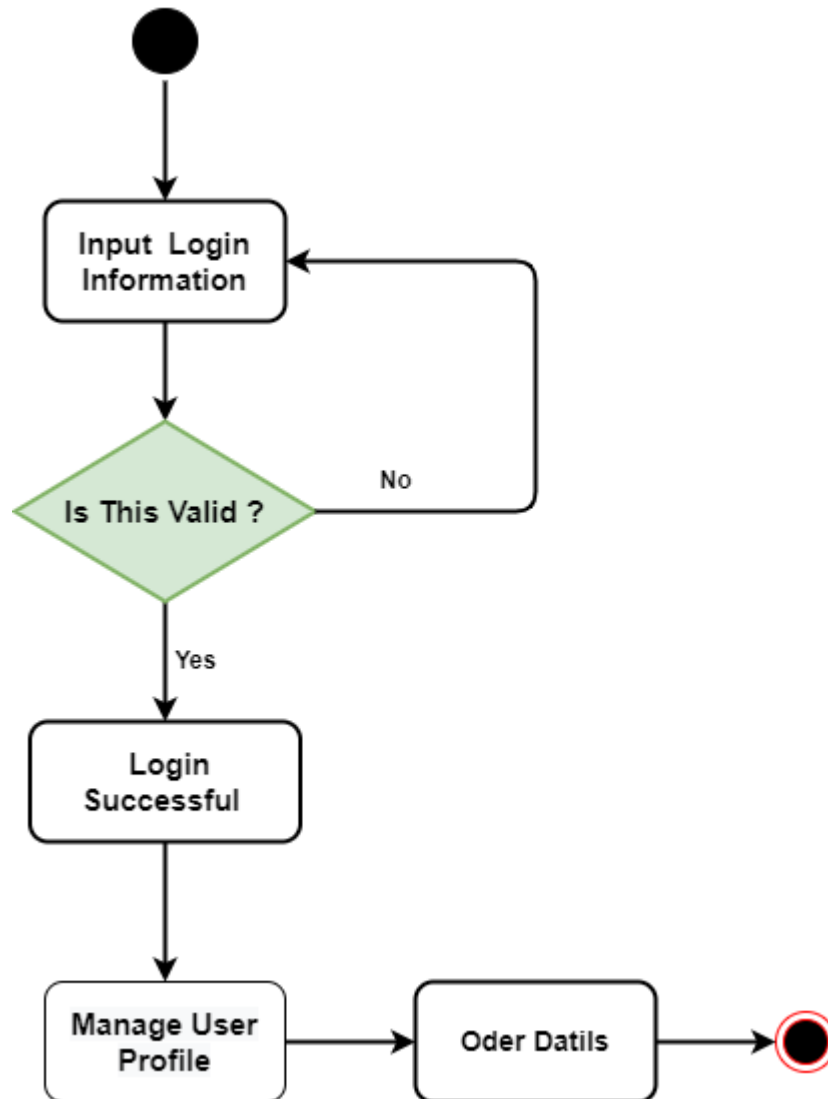
3.3.9 Service Tracked
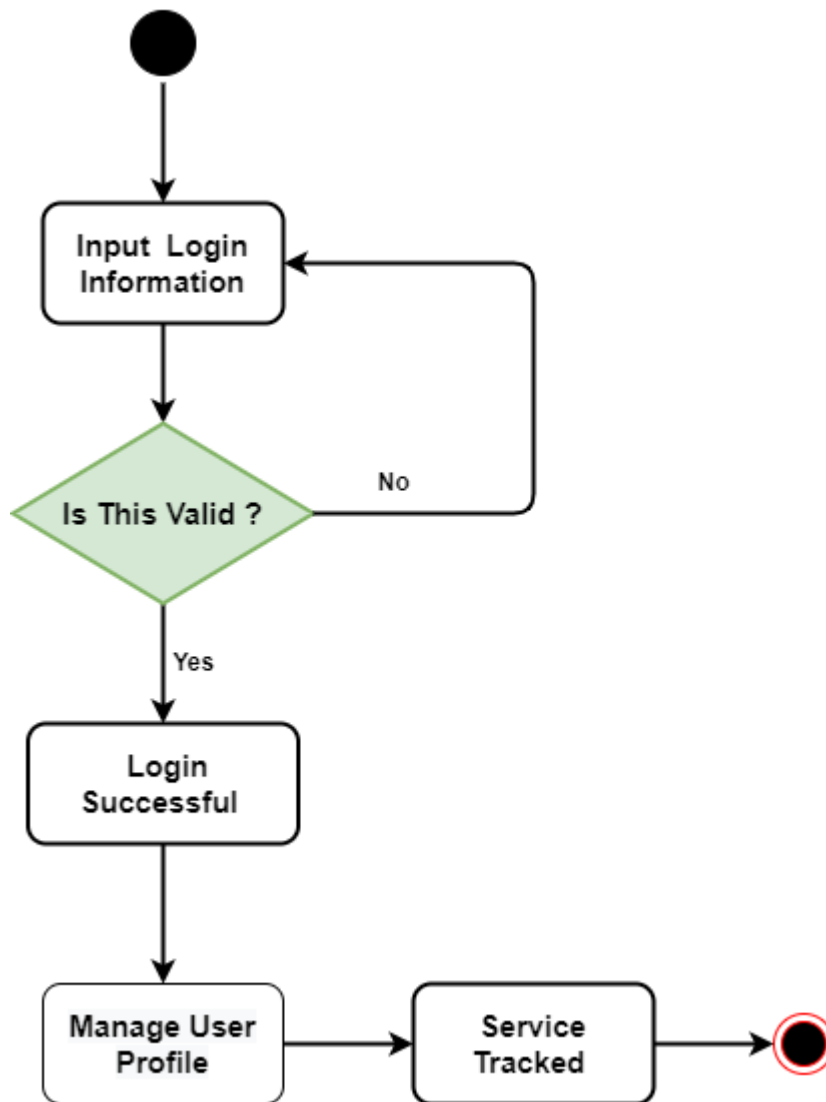
3.3.10 Category manage
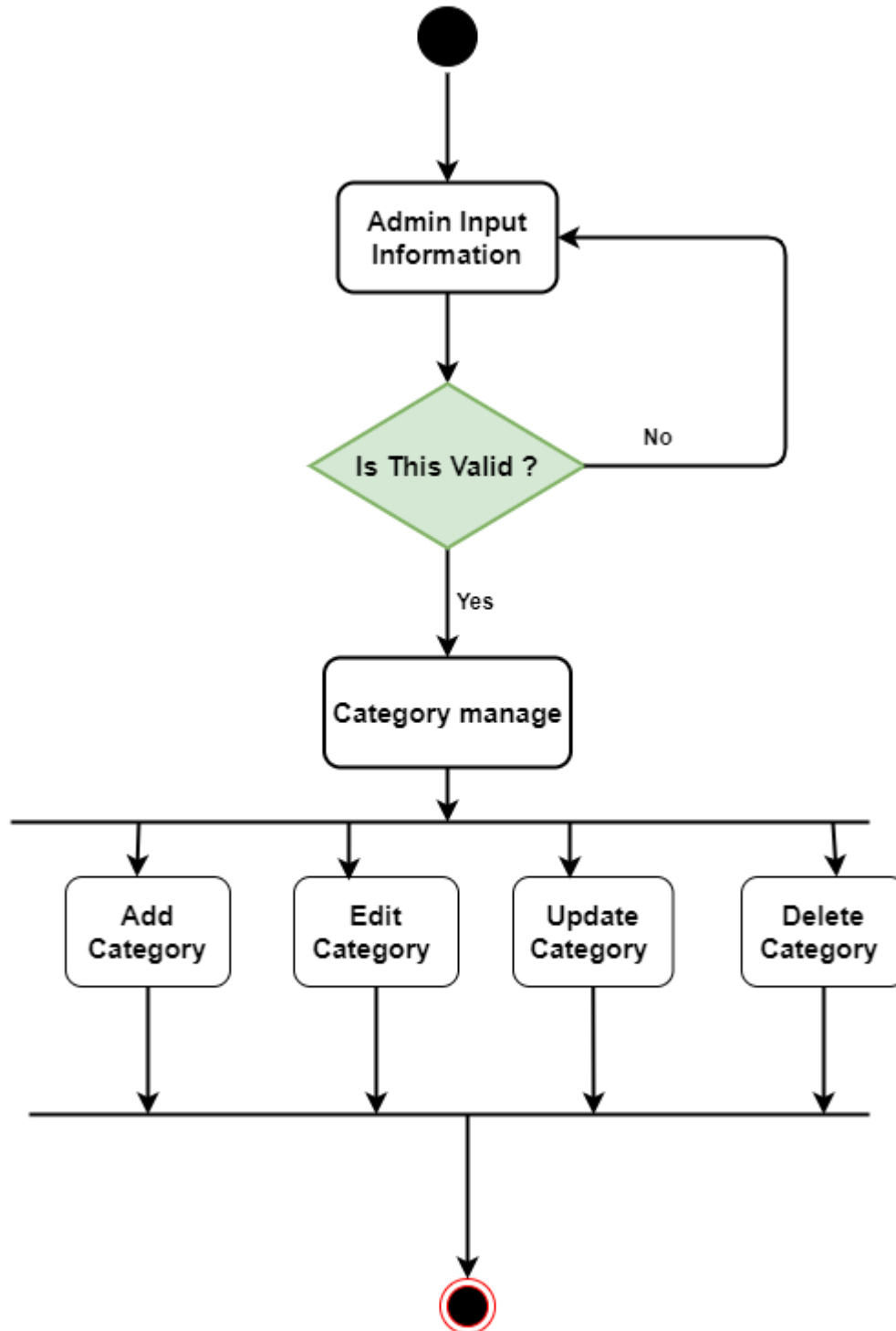
3.3.11 Coupon manage
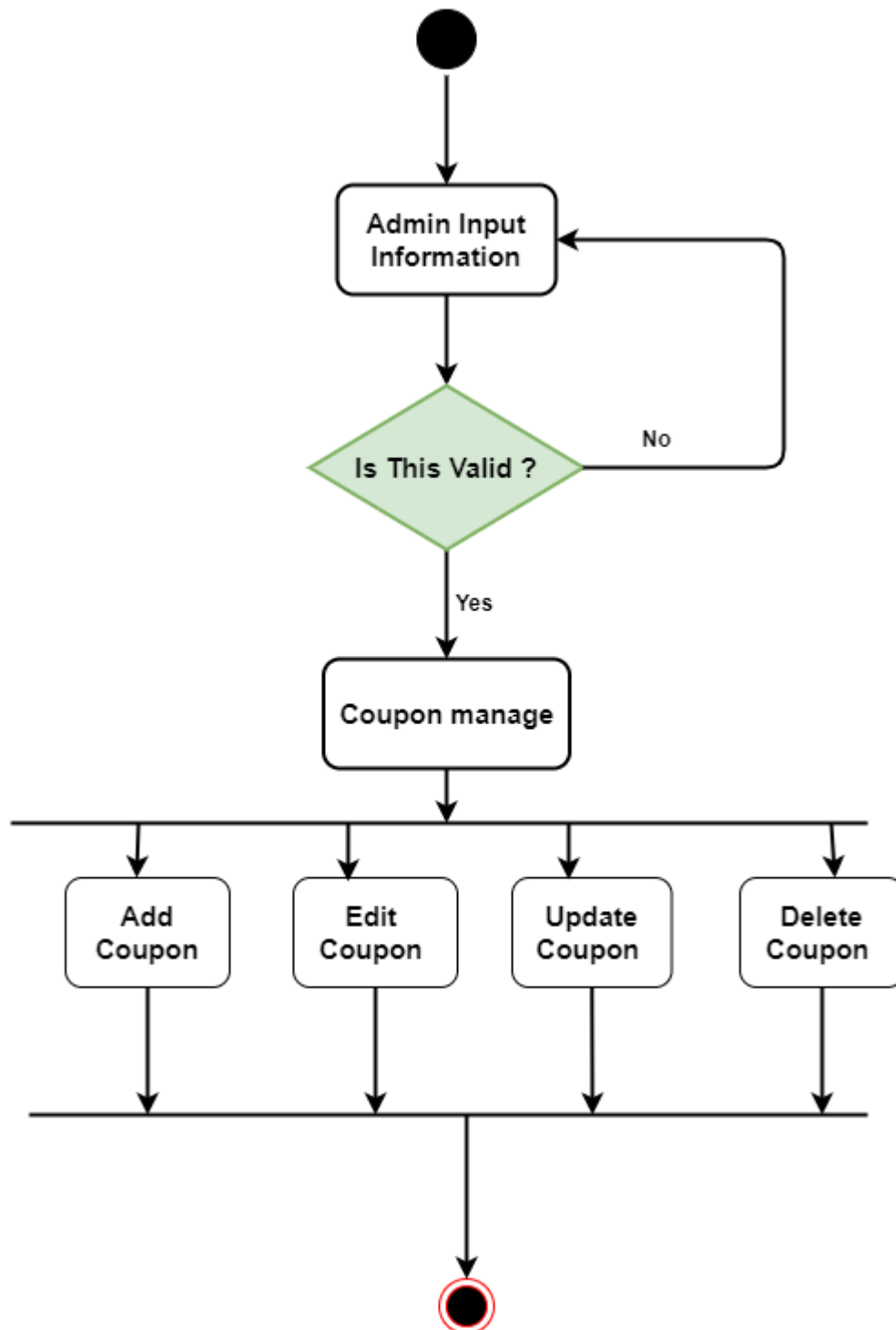
3.3.12 Service manage
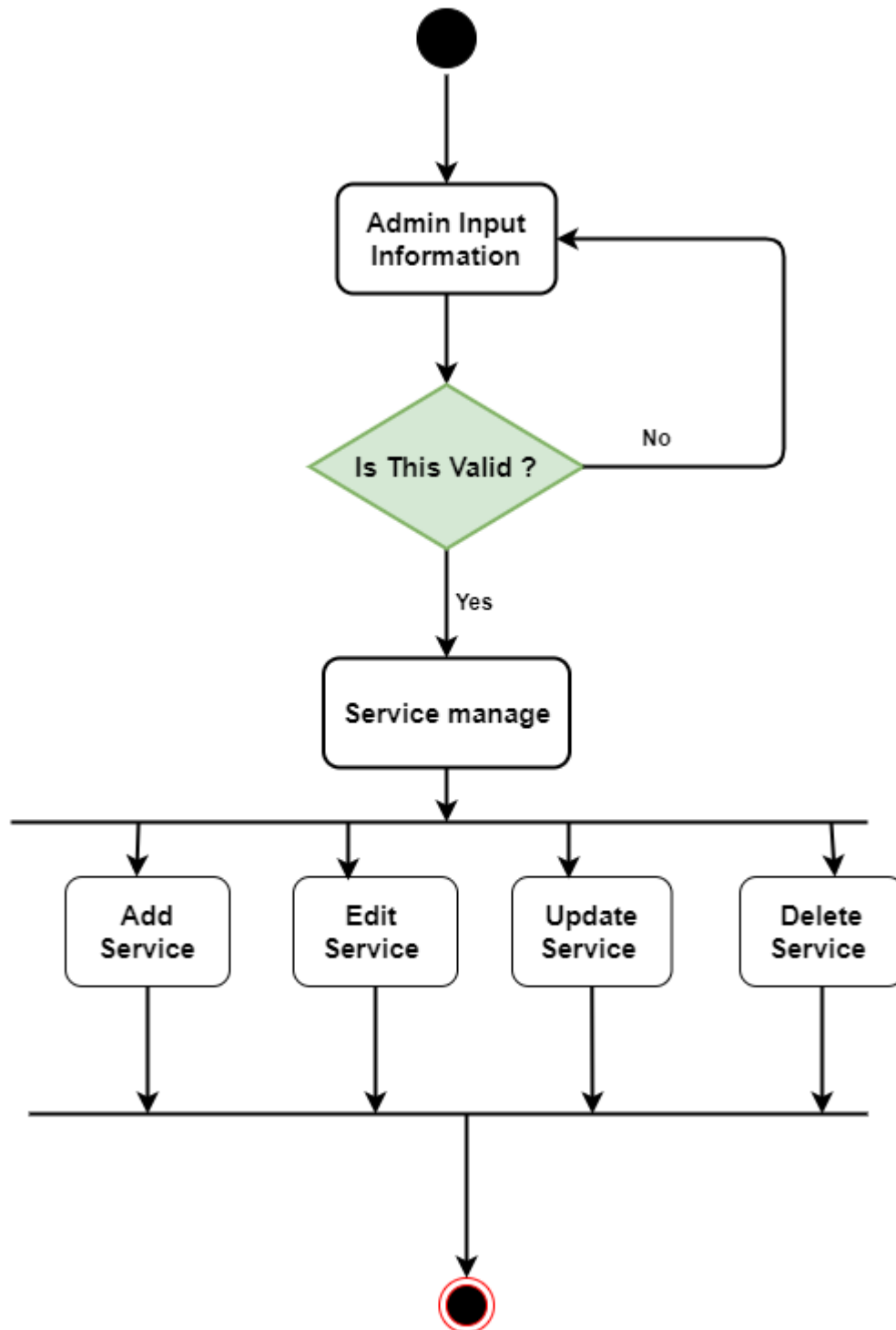
3.3.13 Setting manage
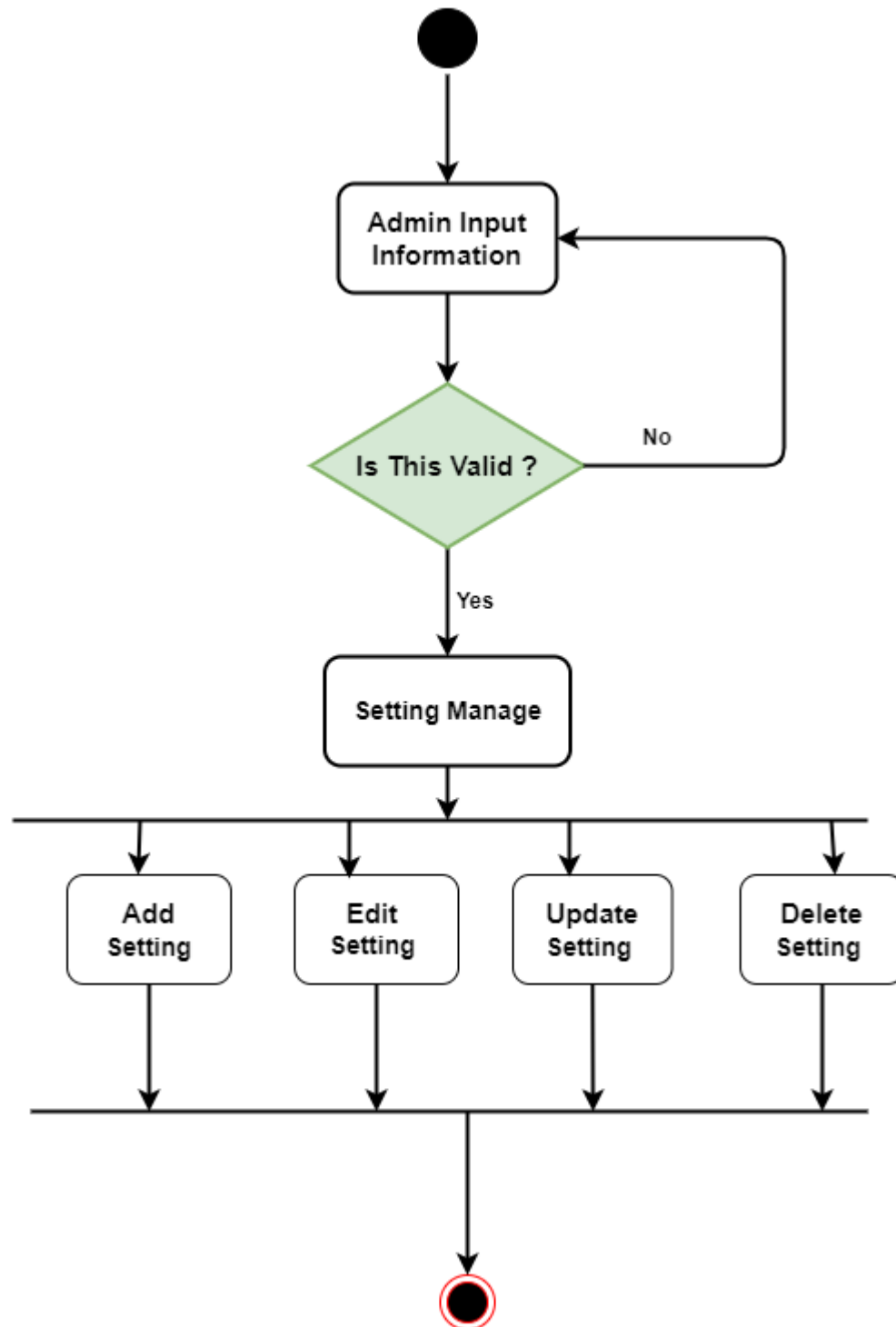
3.3.14 Slider manage
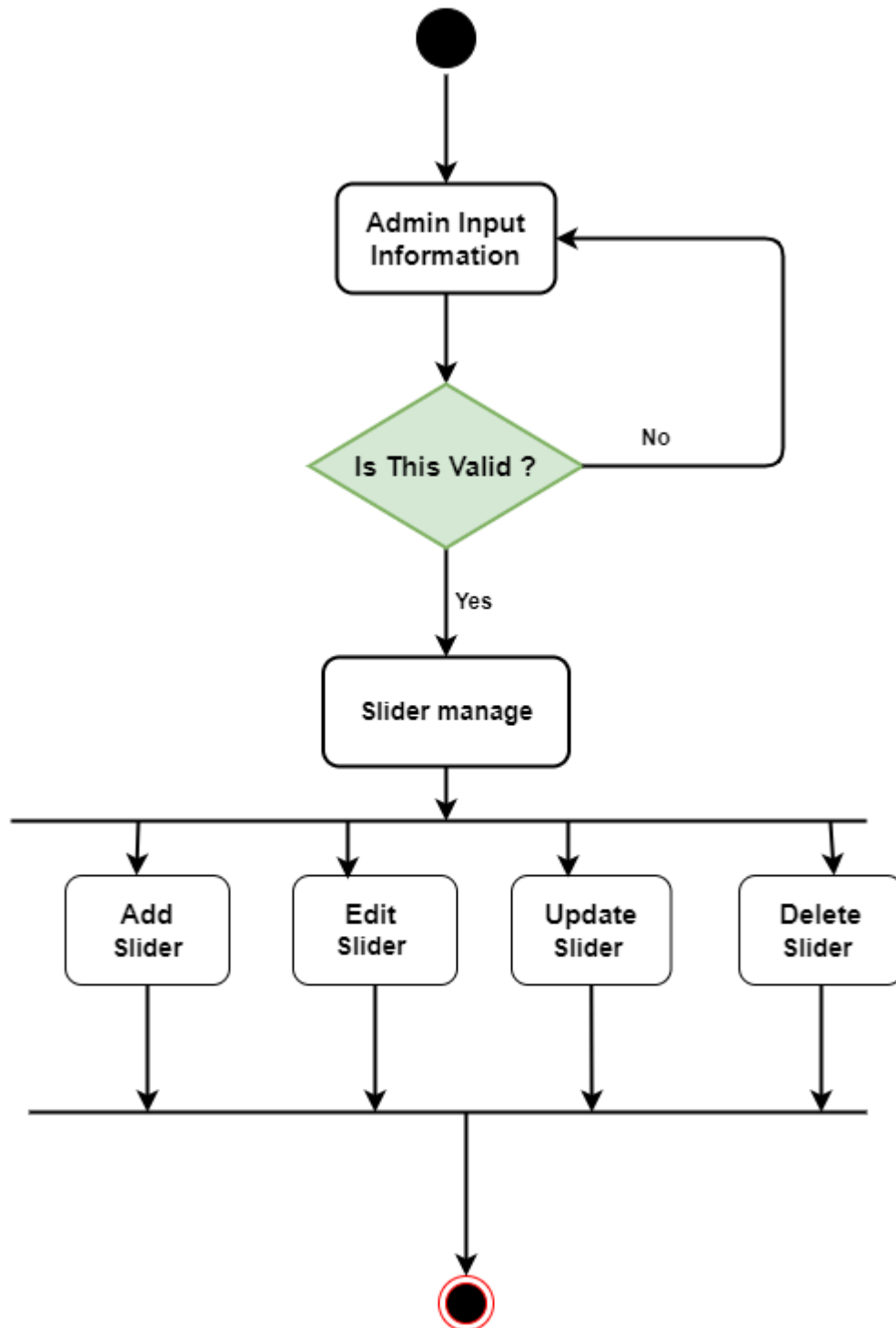
3.3.15 Technician manage
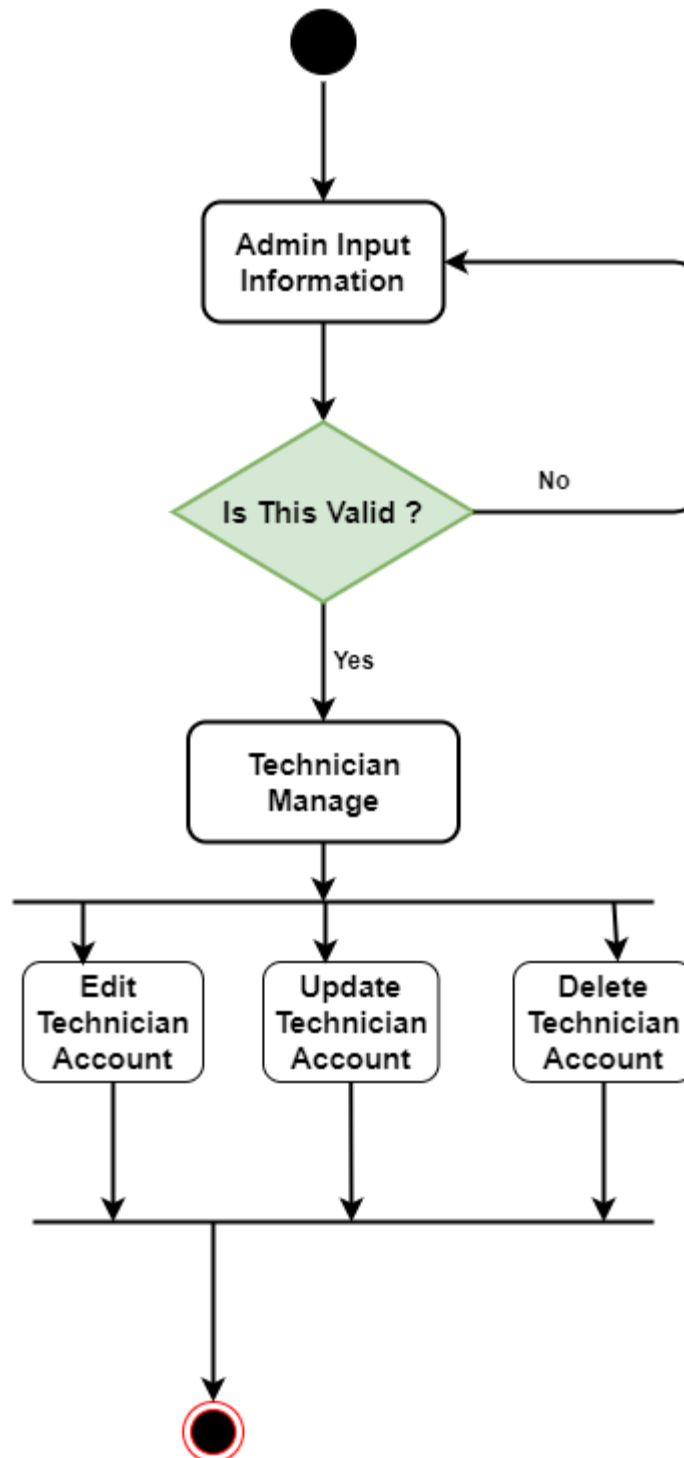
3.3.16 Technician account created
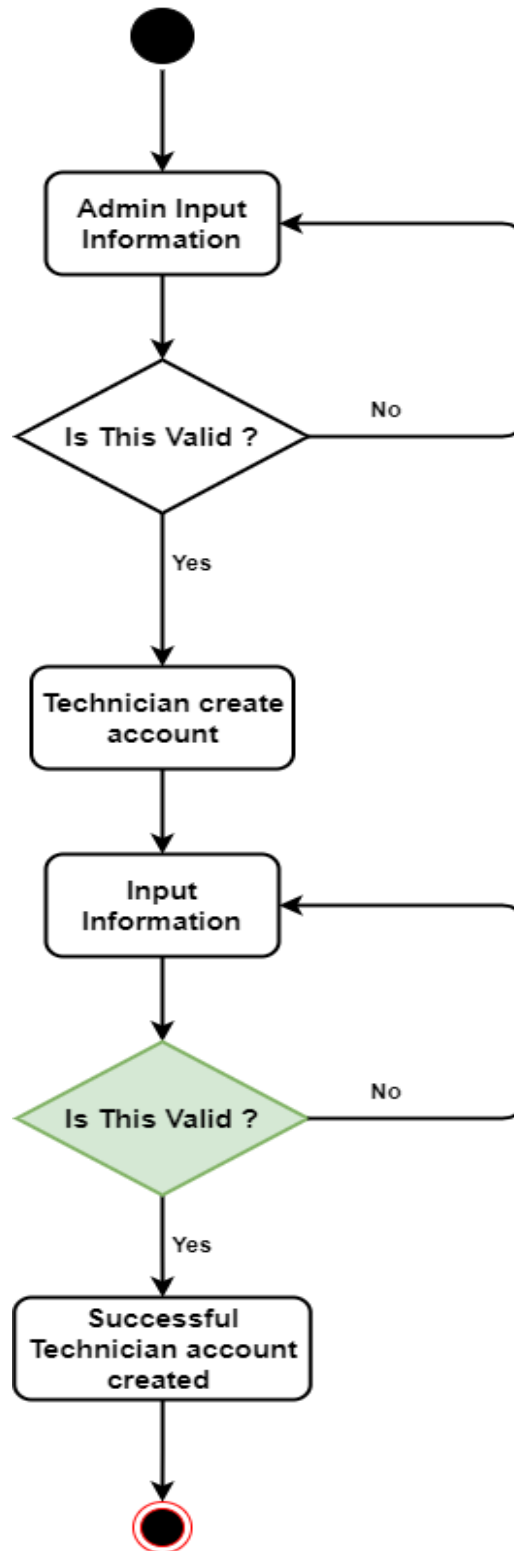
3.3.17 Technician account accepted
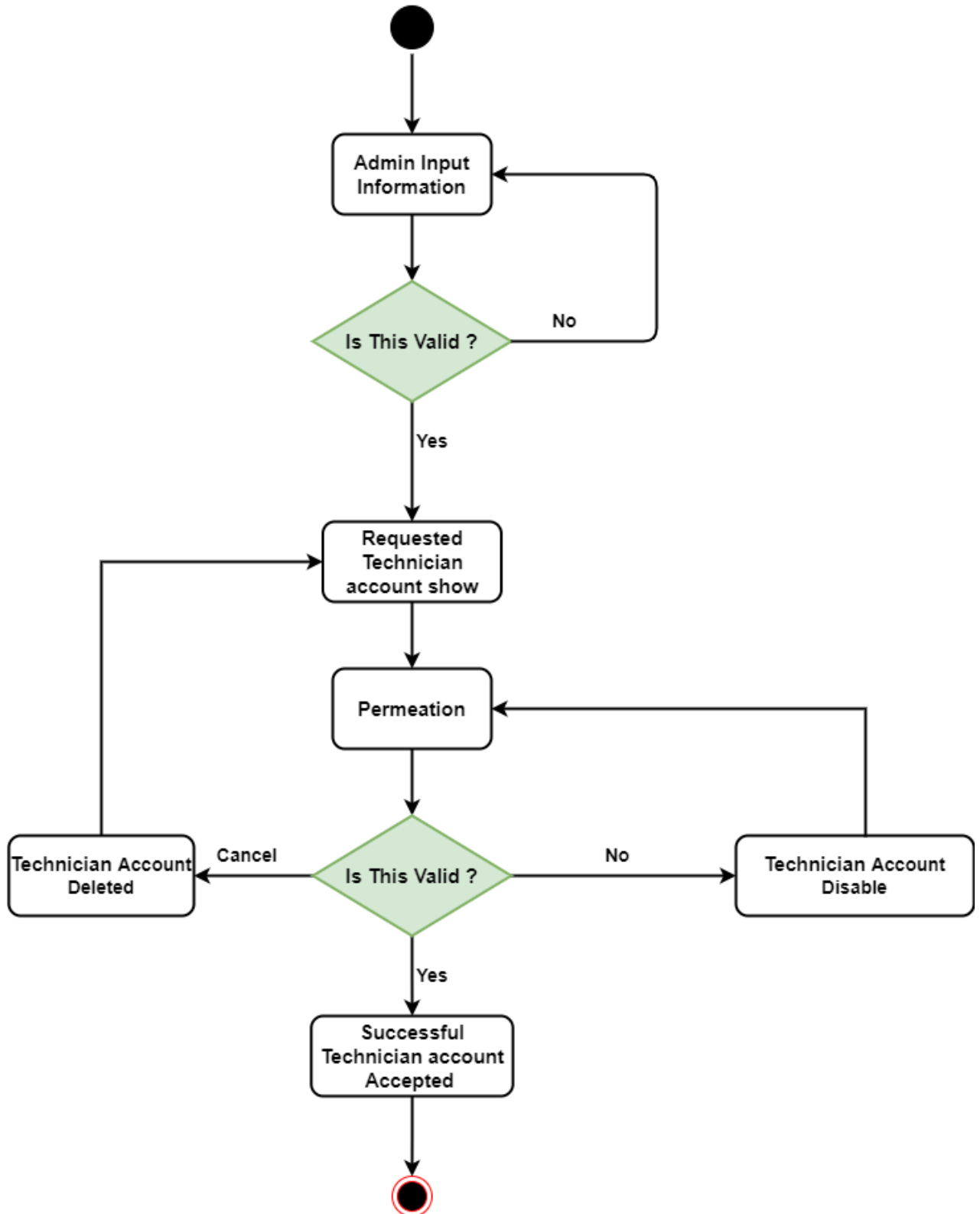
3.3.18 move placement Technician
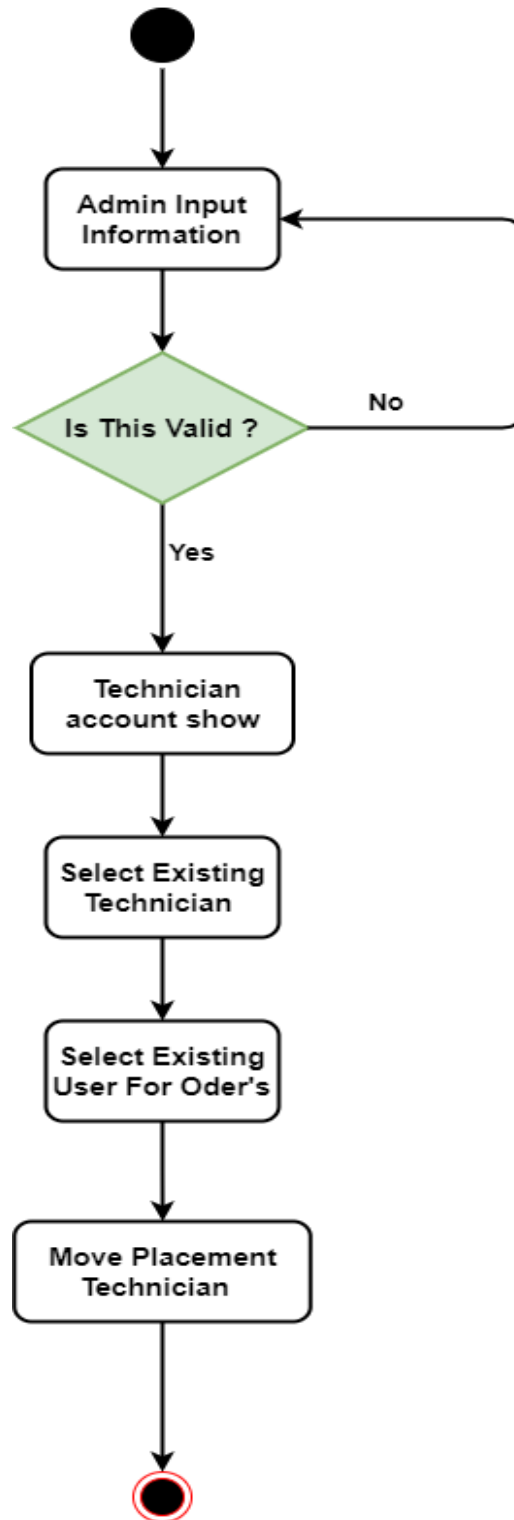
3.3.19 Report generate
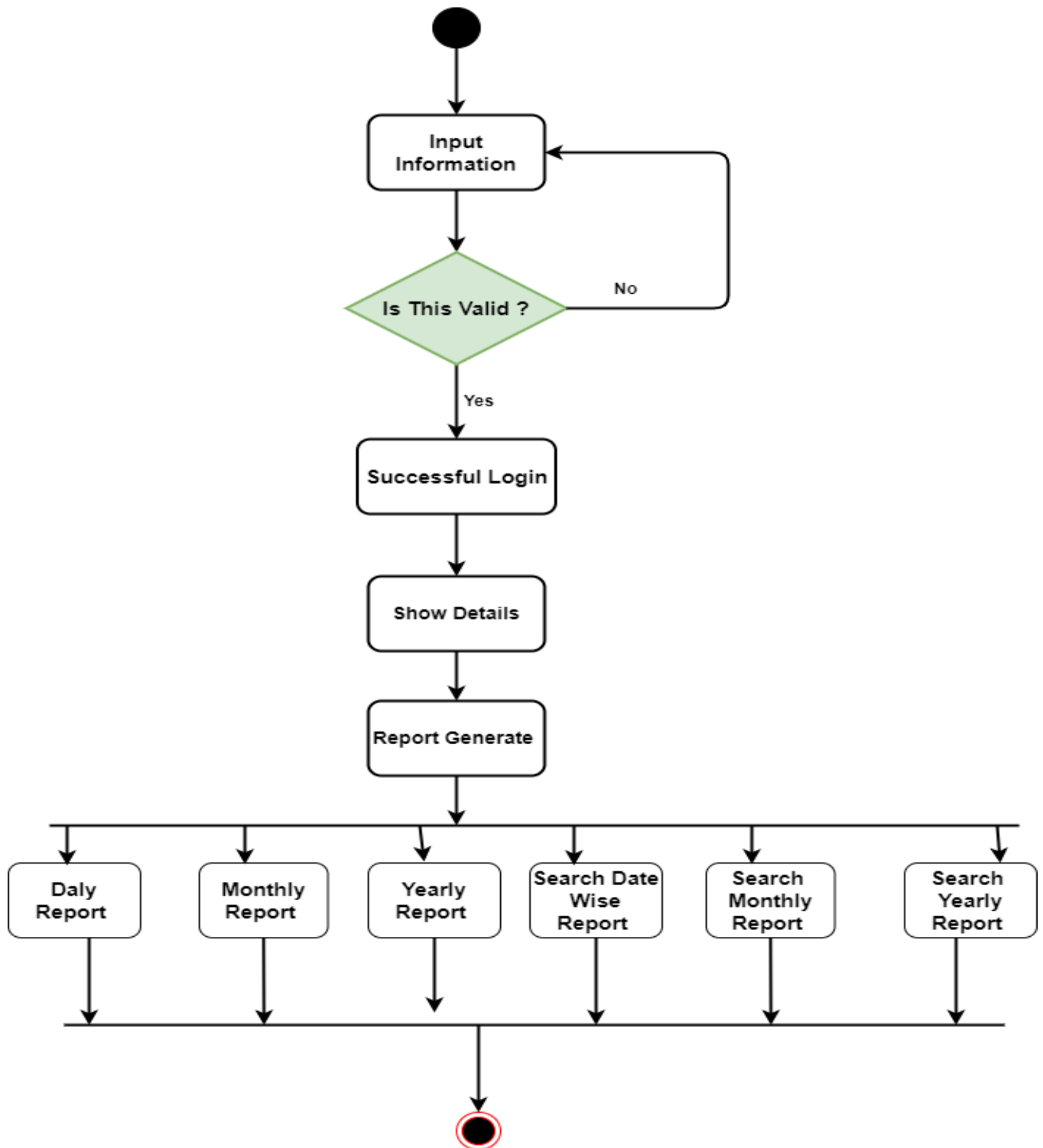
3.3.20 logout
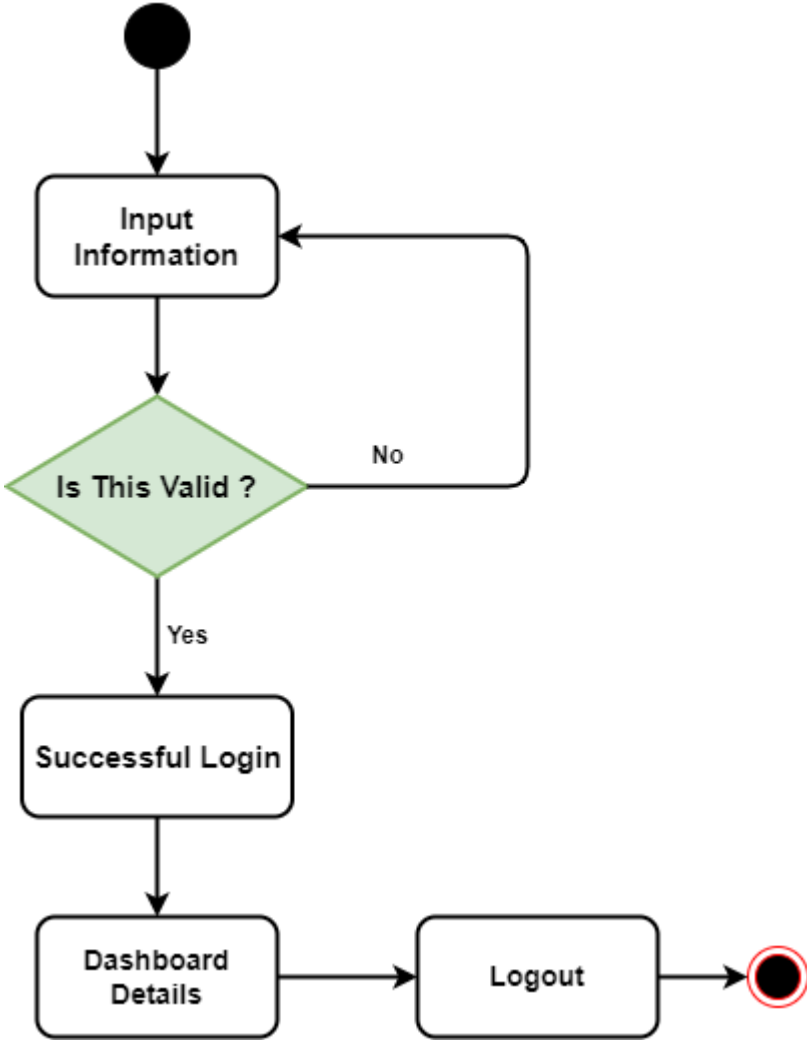
4.1 Sequence Diagram

Sequence diagram for Registration
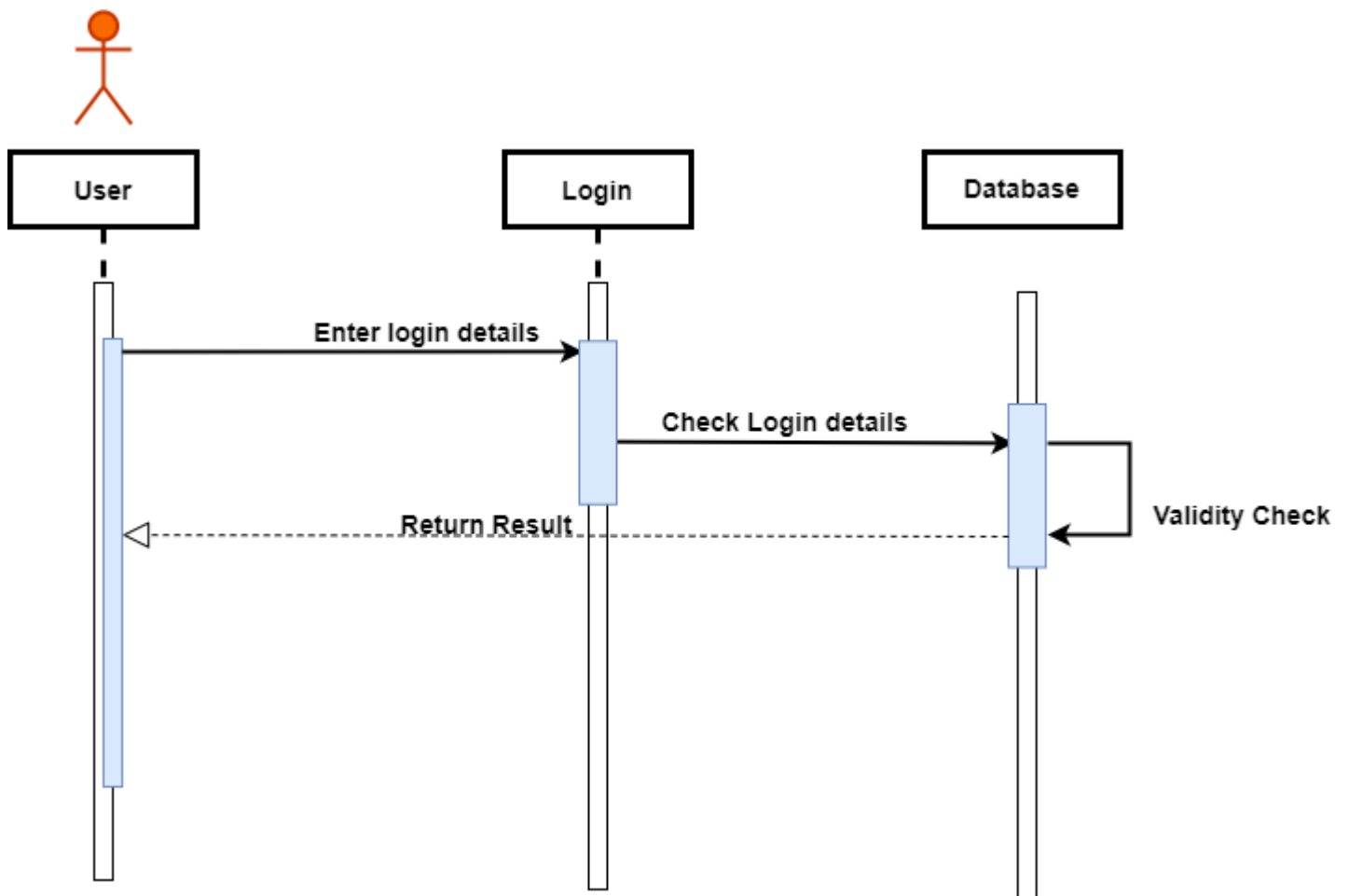
Sequence diagram for Login
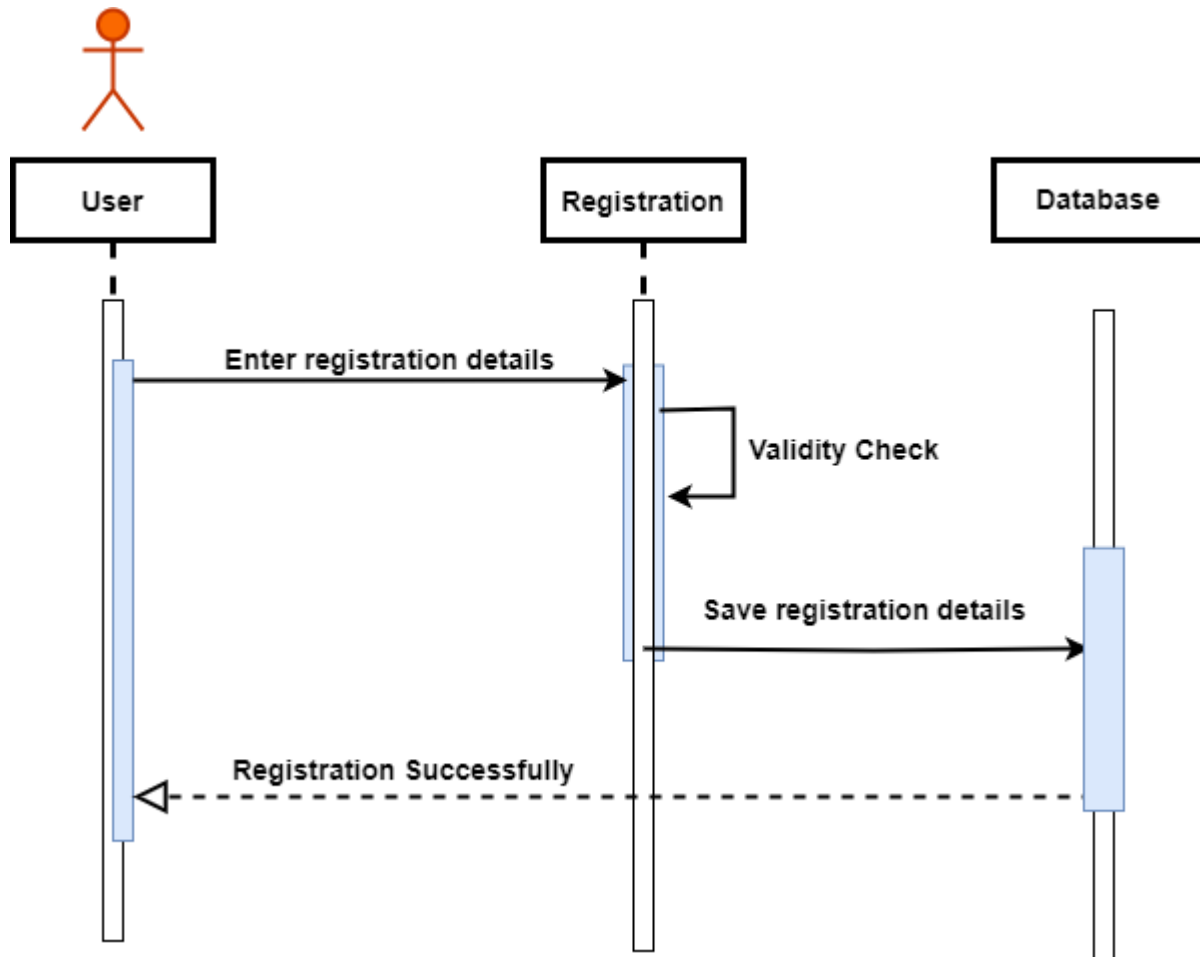
Sequence diagram for view service
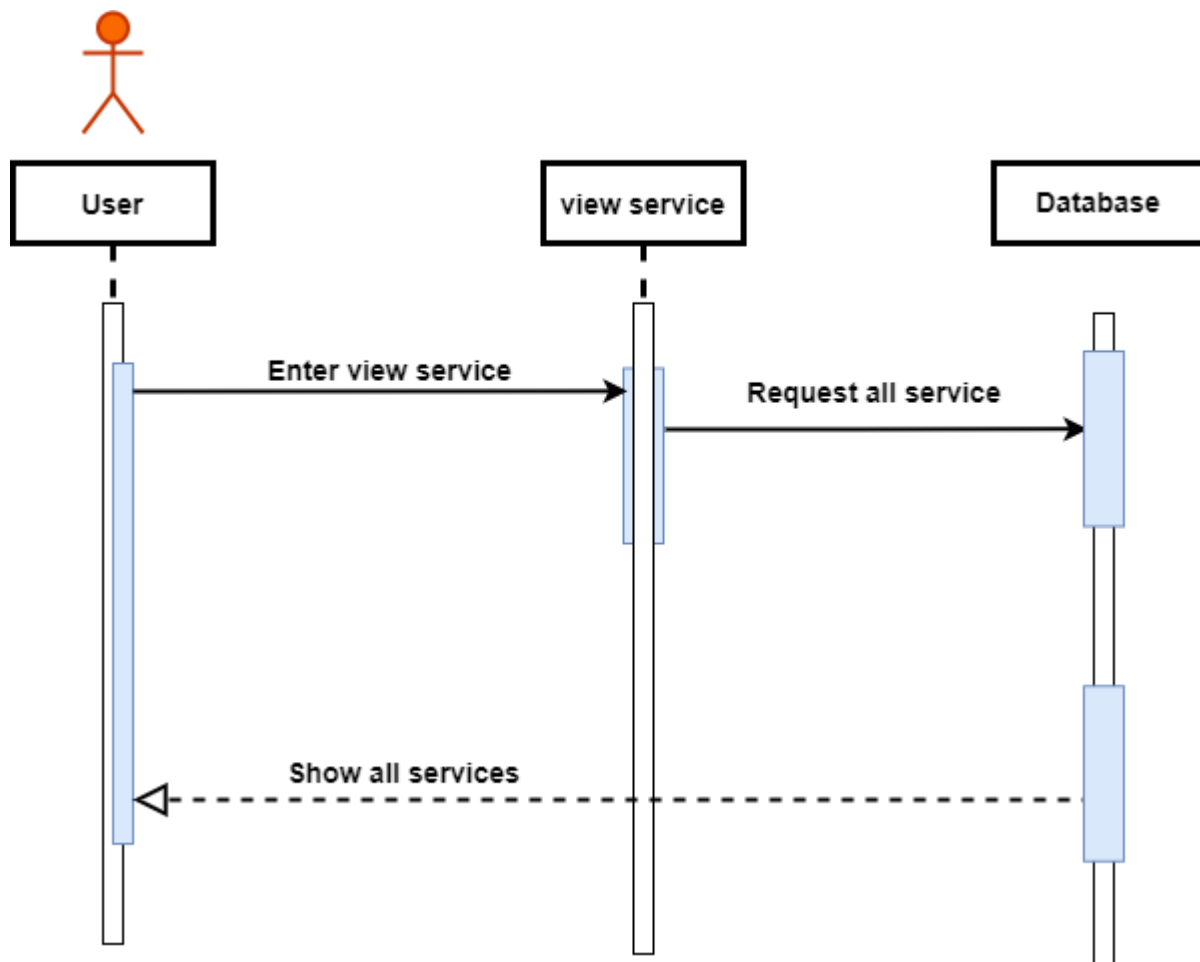
Sequence diagram for coupon apply
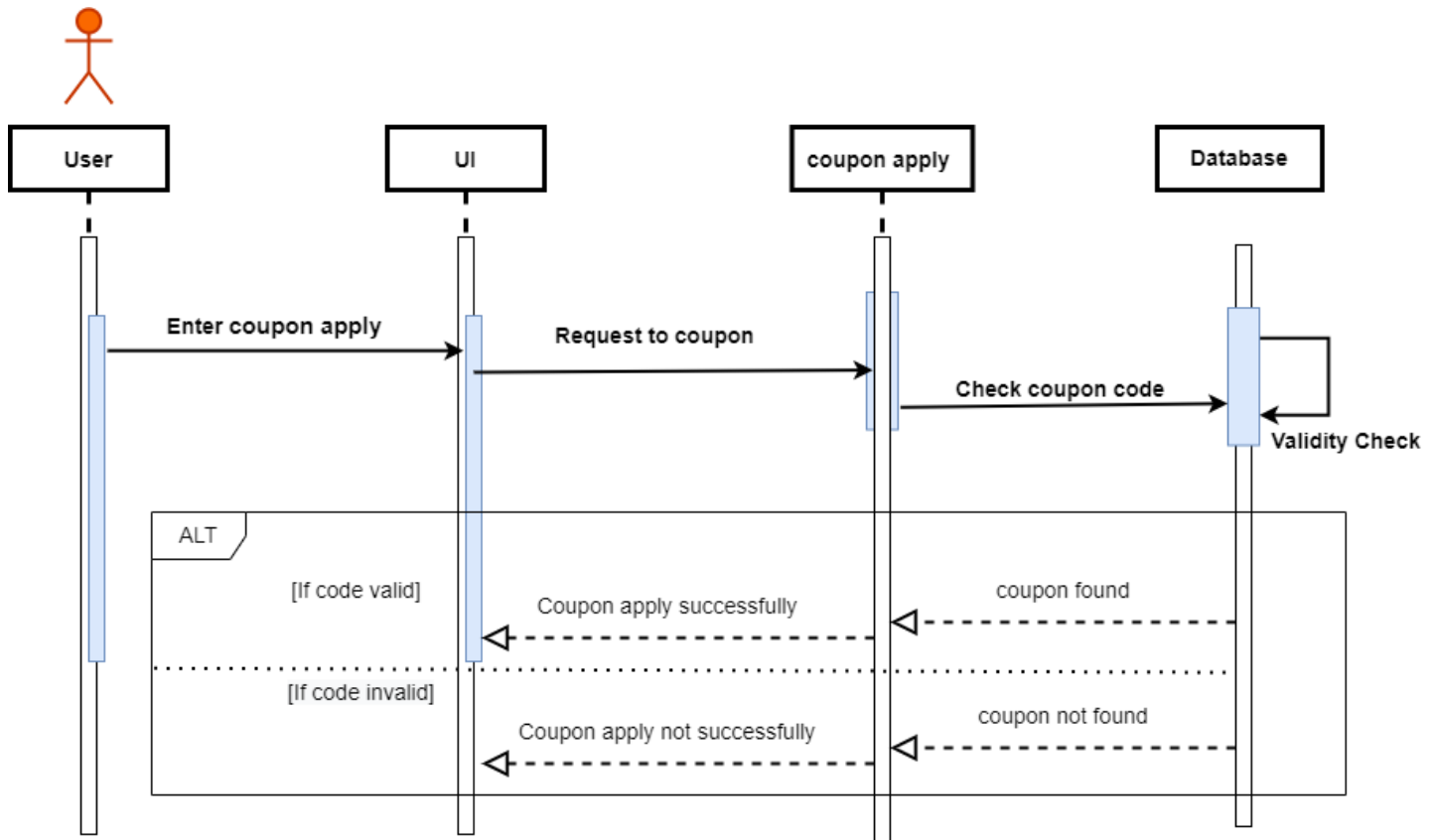
Sequence diagram for confirm service
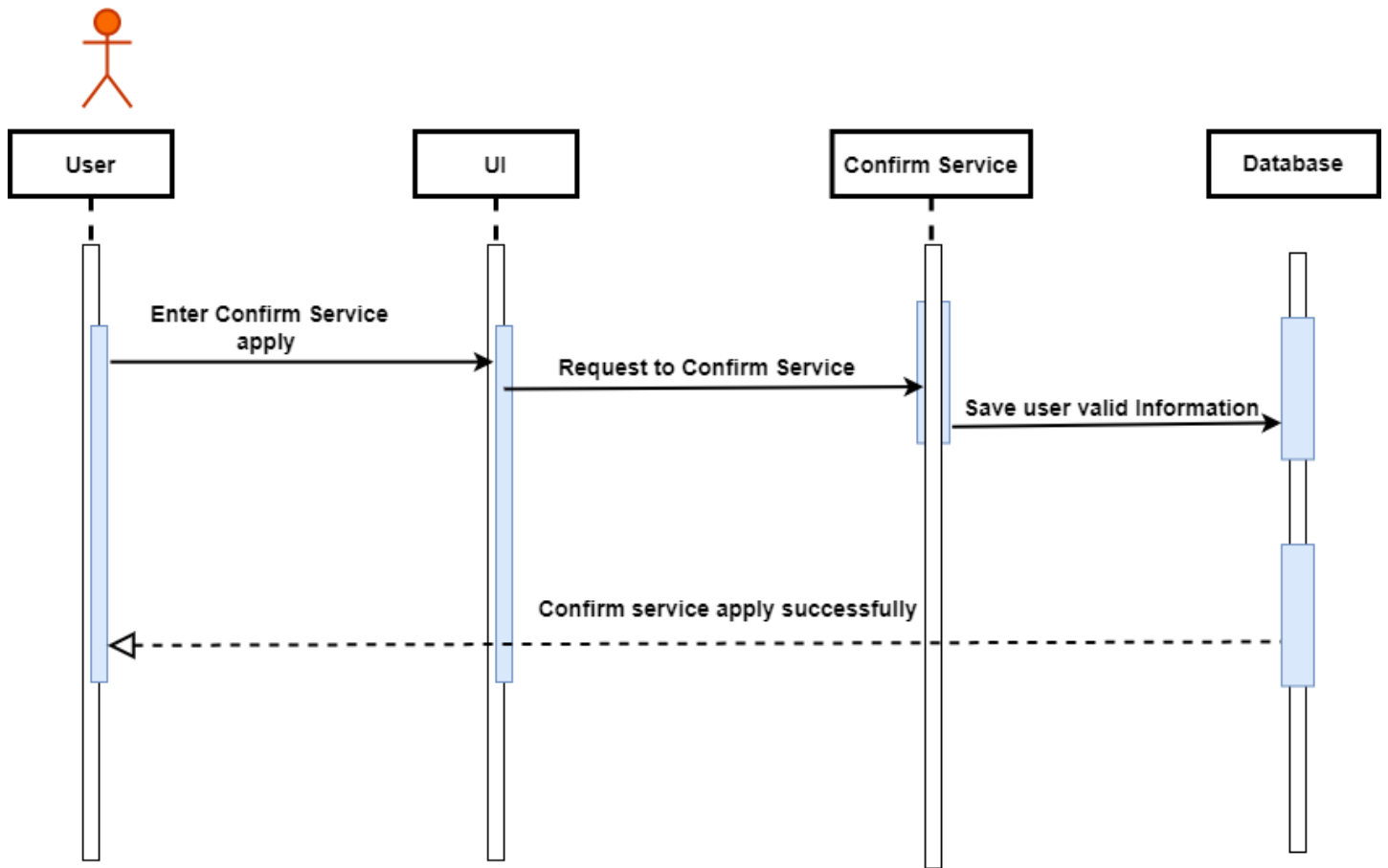
Sequence diagram for payment
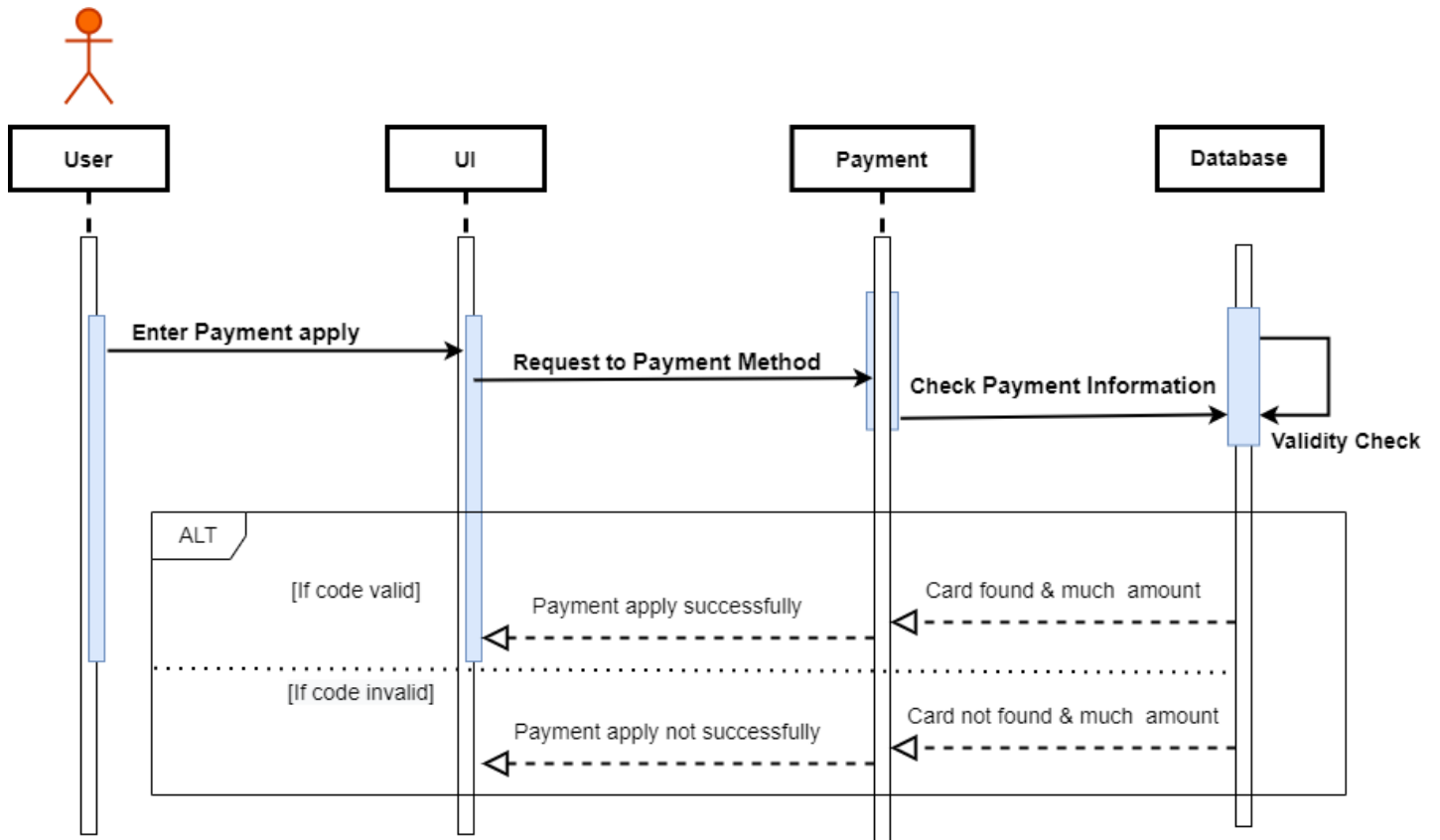
Sequence diagram for profile

User   UI   Profile   Database

Enter show Profile

Request to existing info

Display profile

successfully profile info show
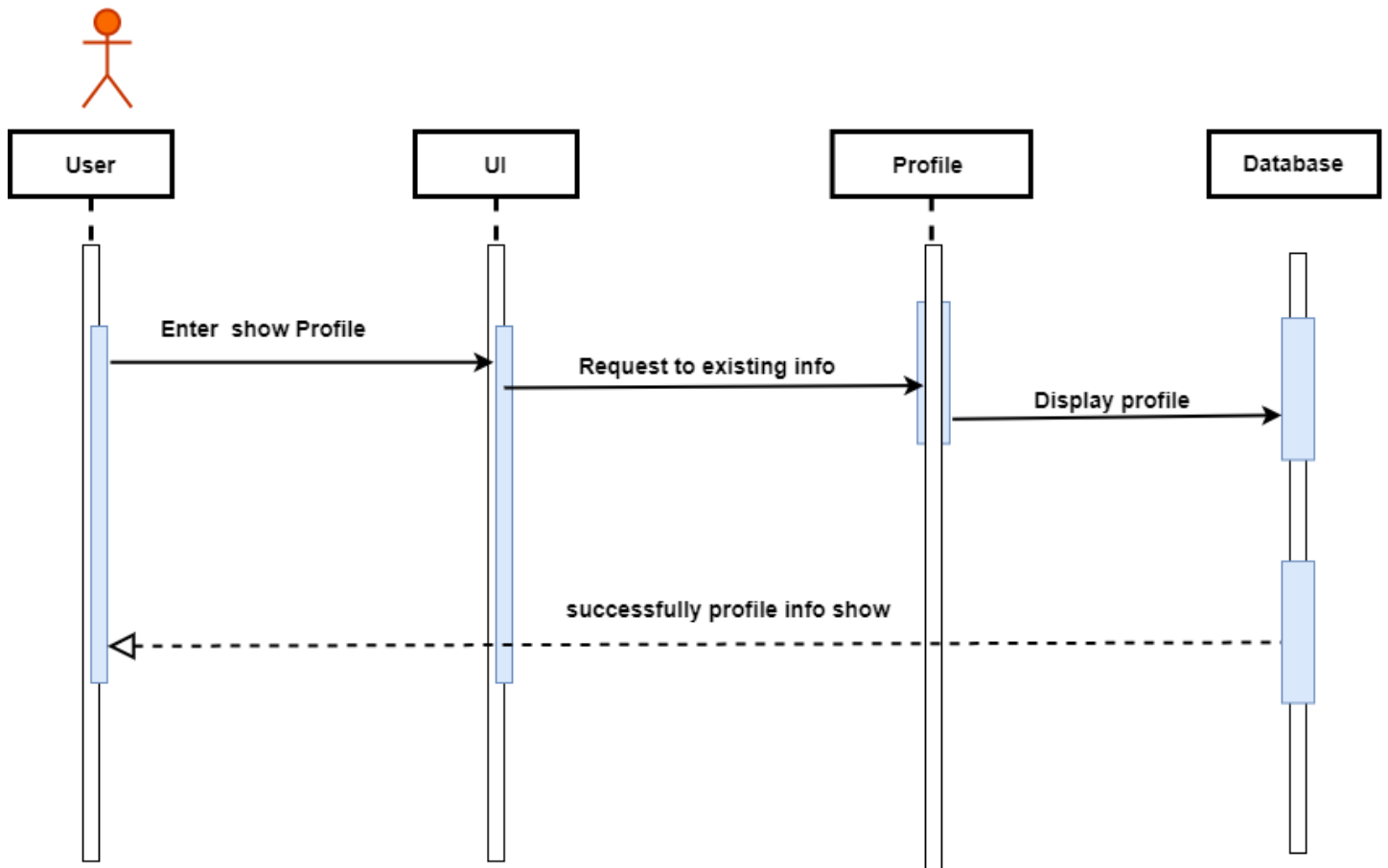
Sequence diagram for category manage
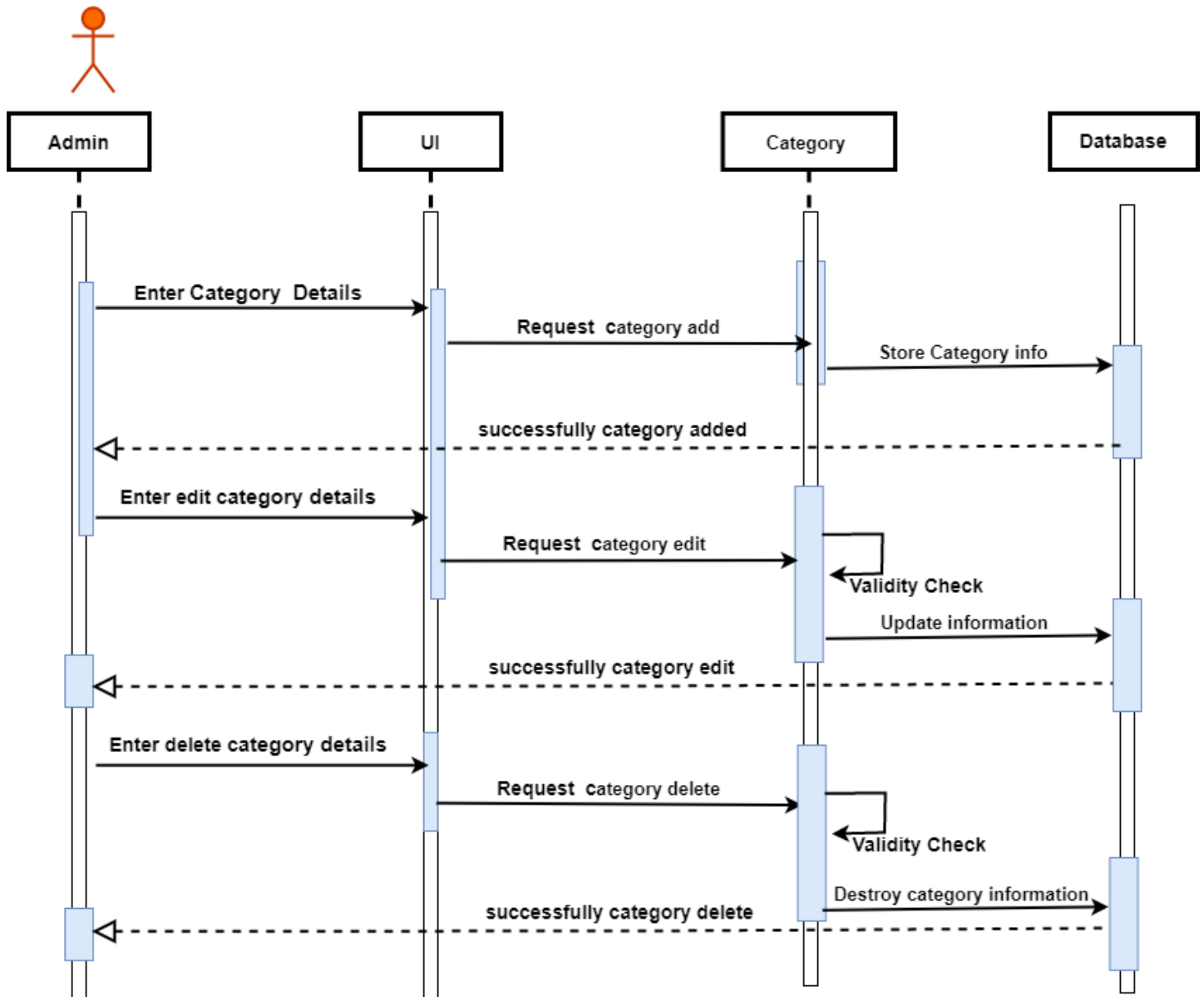
Sequence diagram for coupon manage
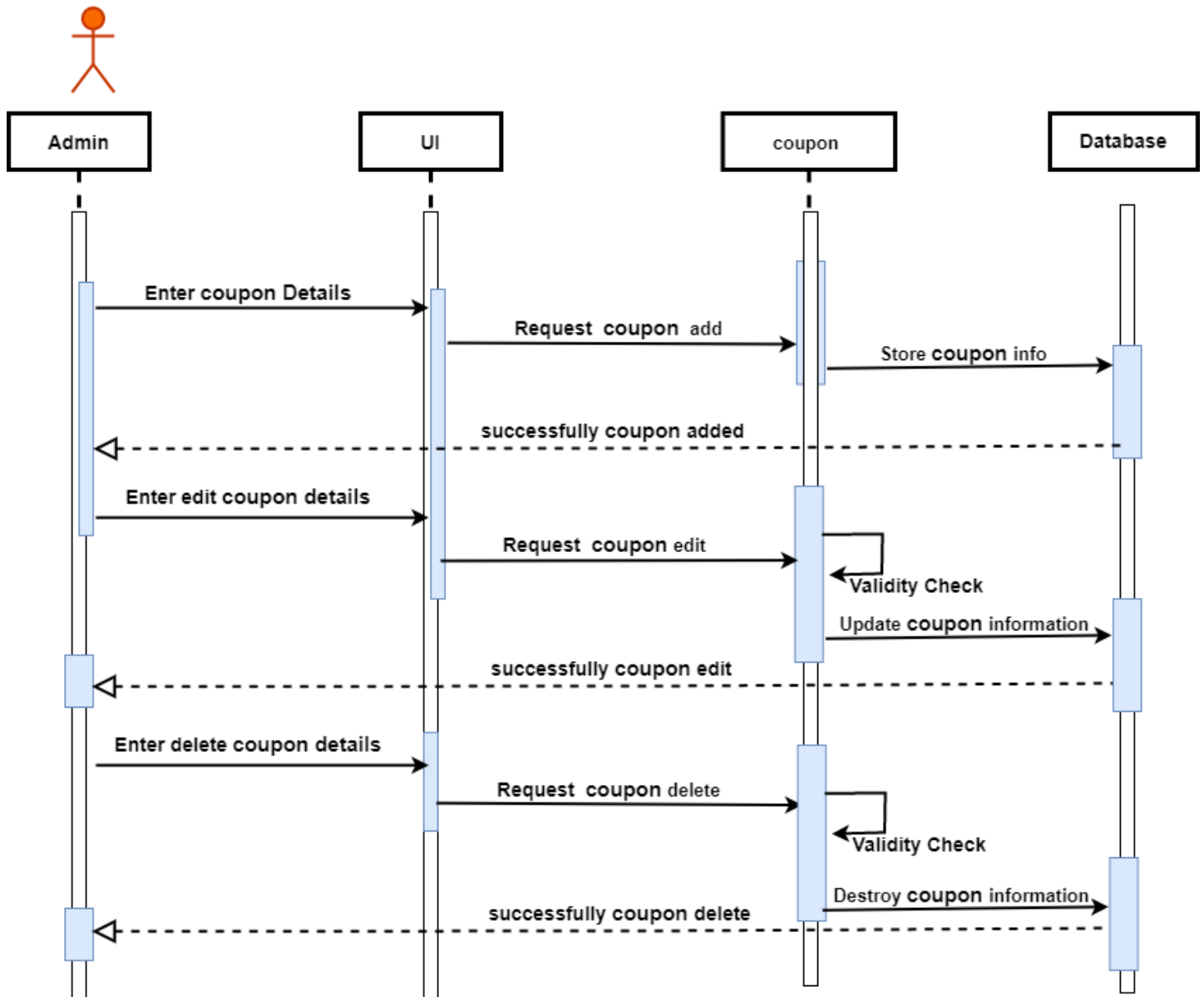
Sequence diagram for service manage
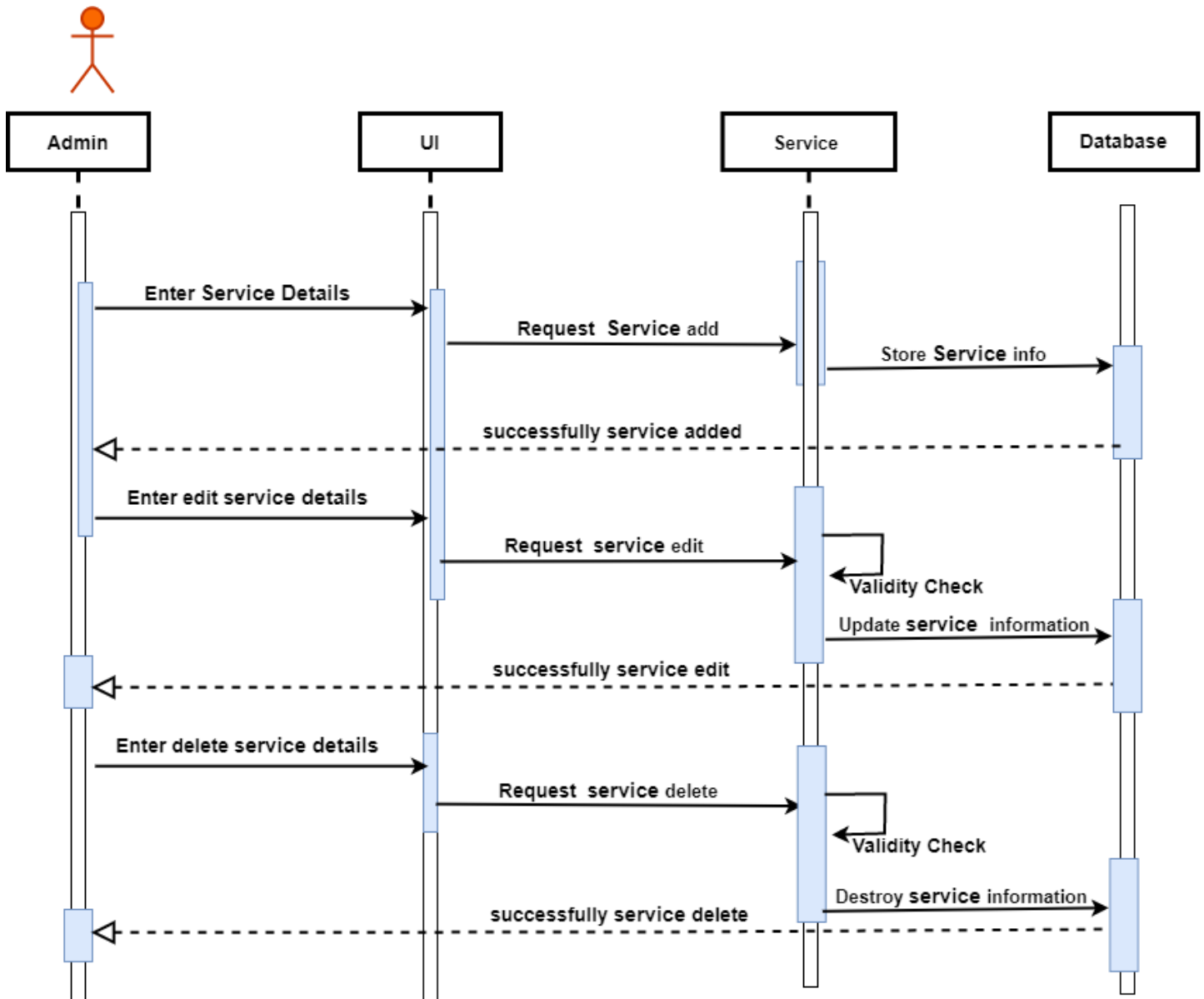
Sequence diagram for setting manage
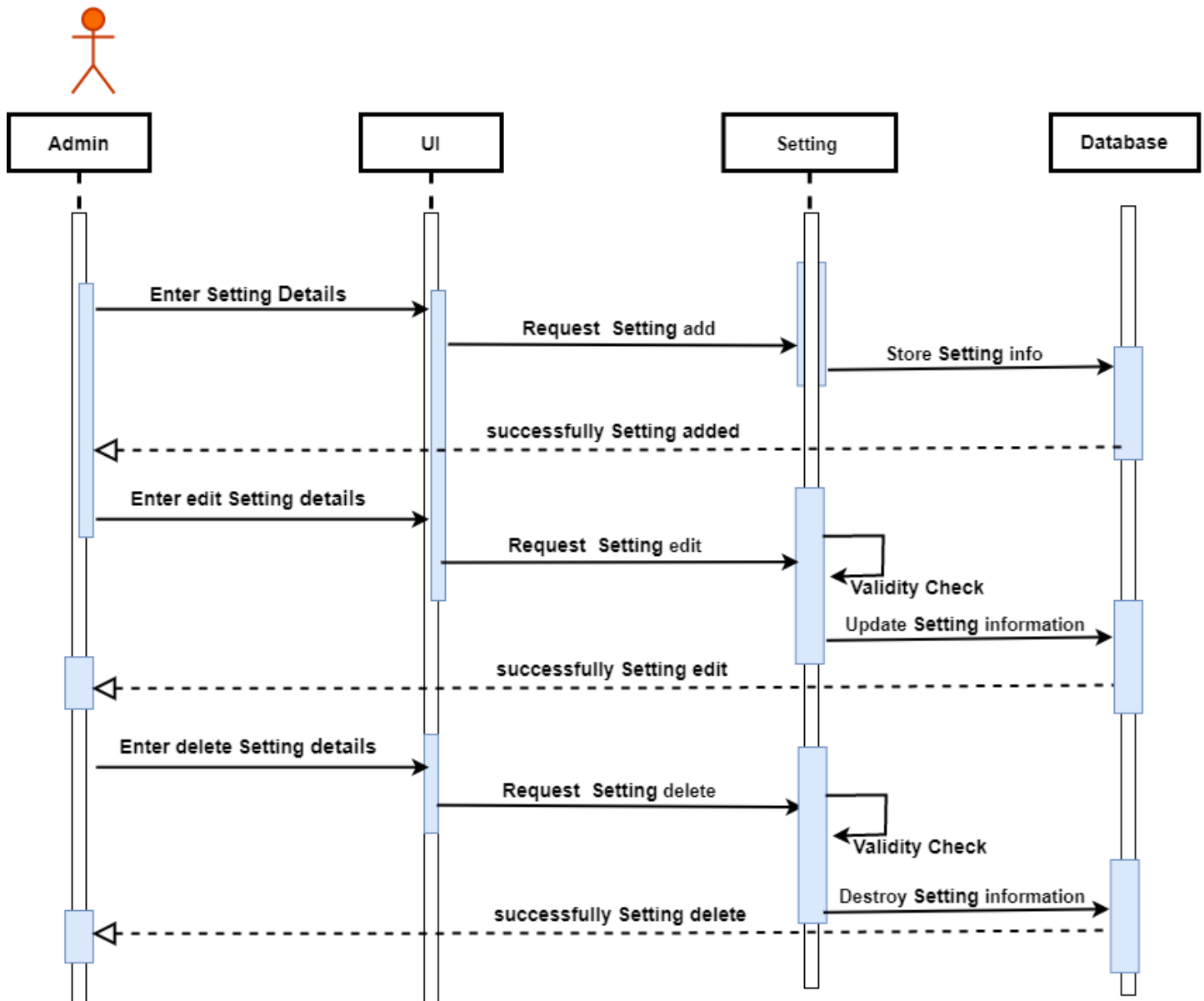
Sequence diagram for technician manage
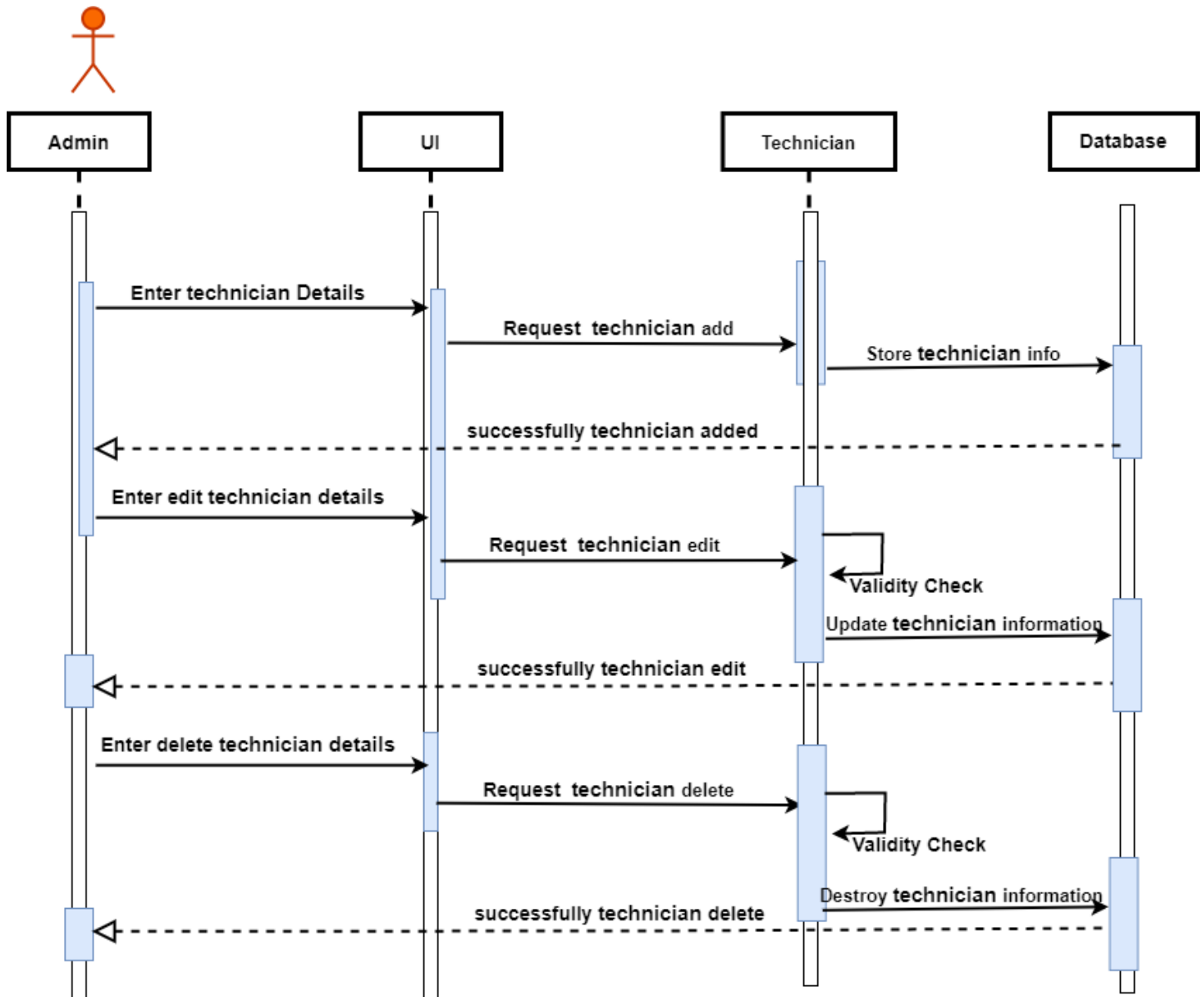
Sequence diagram for slider manage
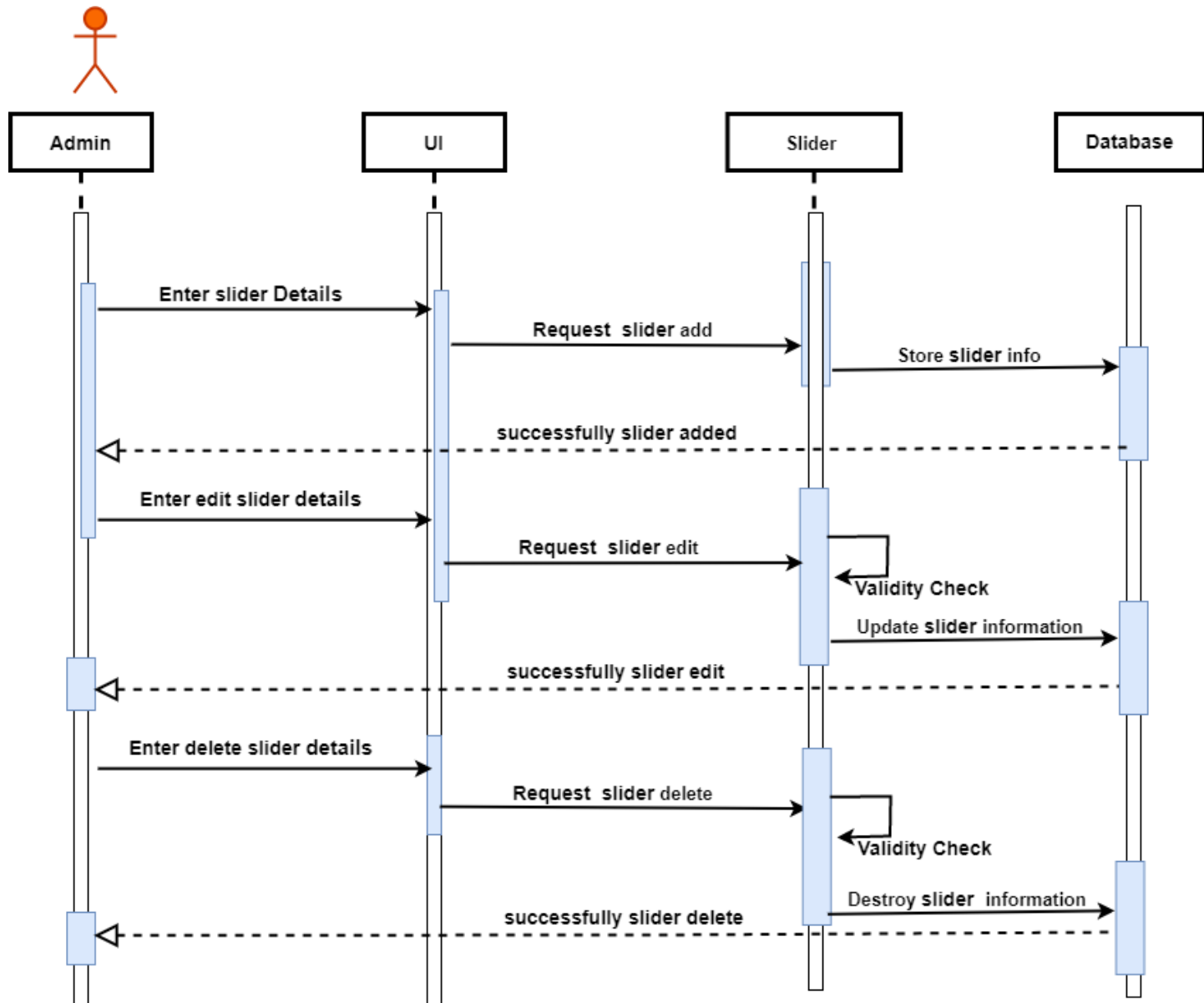
Sequence diagram for technician account apply
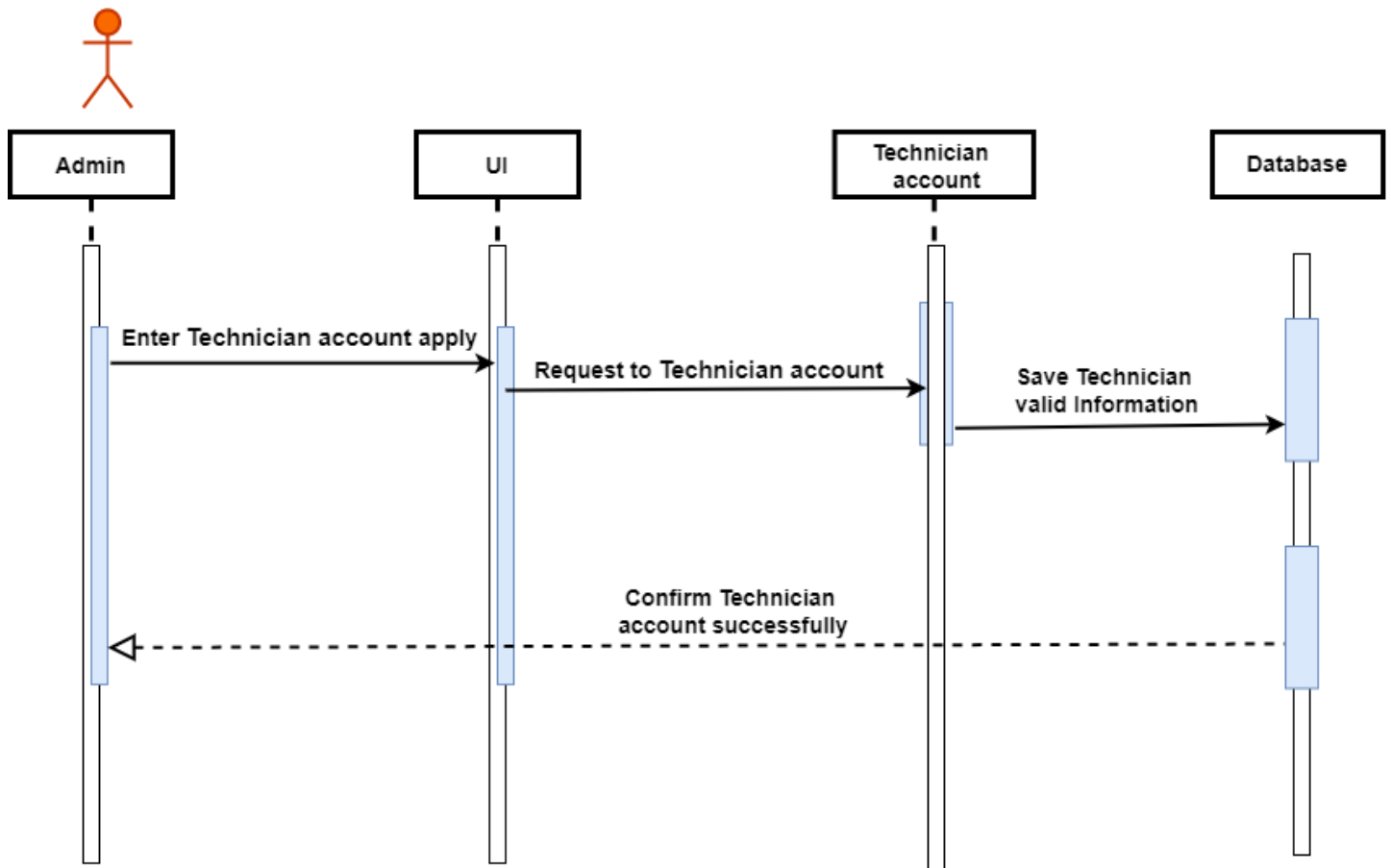
Sequence diagram for technician permeation account

Sequence diagram for logout

4.2 ER Diagram

4.3 class Diagram

Technician

+tec_id:int
+tec_name:String
+tec_email:String
+tec_Pass:String
+tec_Mobilr:int

+ regtec()
+ logintec()
+ profileupdate()
+ Search()

user

+user_id:int
+Pass:String

+ login()

ShoppingInfo

+shopping_id:int
+shoppingtype:String
+shoppingcost:int

+ updateshoppinginfo()

Subcategory

+cat_id:int
+sub_tittle:String
+shoppingcost:int

+AddsubCategory()
+EditSubcategory()
+DeleteSubcategory()

Order

+order_id:int
+date_created:String
+date_shiped:String
+techniciana_name:String
+technician_id:int
+status:int

+ placetechnician()

Shoping Cart

+card_id:int
+Product_id:int
+Quantity:int
+date_added:int

+ AddCartItem()
DeleteCartItem()
+upadateQuantity()
+viewCartDetails()
+checkout()
+calctotalPrice()

Order details

+order_id:int
+service_id:int
+subtotal:float
+unitcost:ifloat

+ calcPrice()

category

+cat_id:int
+tittle:String

+AddCategory()
+EditSubcategory()
+DeleteSubcategory()
+getProductcategory()

CartItem

+name:string
+product_id:int
+Quantity:int
+unitCost:float
+subtotal:float

+New()
+calcPrice()

service

+service_id:int
+name:string
+Description:string
+price:int
+imagefile:string

+displayPoduct()
+get product details

4.4 Development Tools & Technology

4.4.1 User Interface Technology

- HTML, HTML5
- CSS3, CSS
- Bootstraps-4
- JavaScript Font Awesome

4.4.2 Implementation Tools&Platform

- Laravel framework
- Xampp
- VS code
- WindowsCMD,GIT BASH

CHAPTER-05

System Testing

5.1 Introduction

This website is built for public purpose. Several types of user can use this system with many facilities. For maintaining standard quality, various kind of testing process is required. Such as-

- Functional Testing
- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

5.1.1 Feature to be tested

Number	Title	Description	Priority
I.	Registration	If user wants to manage site then user has to Register first.	3

II.	Login	If user is registered then he/she can Login to see user index to access the features.	3
III.	Search Service	Anyone can search Service in this website.	2
IV.	Manage Profile	User has easily manage his Profile.	3
V.	Logout	The session must be destroyed after Logout.	3

Here, 1 = Low Priority; 2 = Medium Priority; 3 = High Priority

5.1.2 Testing Schedule

This table describe testing schedule of my project:

Test Phase	Time
Test Plan	1 Week
Test Specification	2 Week
Test Specification Team	1 Week
Component Test	3 Week
Integration Test	2 Week
System Testing	3,4 Week

5.2 Testing Strategy

A testing strategy is a process that describes an approach to testing a software development cycle. In this process at first, I will check all the required requirements those are needed to develop my project. Then I will check that all the required requirements are properly working or not. To maintain the standard quality, I will follow some steps properly. For this I start the testing process with functional requirements testing. To maintain the quality, I did all of the tested criteria those I mentioned above.

5.3 Test Case Table

Test Case 01 Login

Test Case: - 01	Test Case Name: Login
System: User Login	Subsystem: N/A
Designed By: MD. Hasib Hosain	Design Date: 01-12-2021
Execute By: MD. Hasib Hosain	Execution date: 02-12-2021

Step	Action	Expected System response	Pass/Fail	Comment
1	When system user fills up the user login field and click login button	If user don't enter email id then show required email id.	Pass	Email Field are required
2	When user enters emails	The system shows this field is email required.	Pass	The valid email needs to login

Test case 2 (Search Service)

Test Case: - 02	Test Case Name: Search Service
System: Search Service	Subsystem: N/A
Designed By: MD. Hasib Hosain	Design Date: 03-12-2021
Execute By: MD. Hasib Hosain	Execution date: 05-12-2021

Step	Action	Expected System response	Pass/Fail	Comment
1	When someone enter Service name and click search Service	If Service name does not match the system show Service not found.	Pass	user name required
2	When user enters Service name	The system shows user.	Pass	The valid nid needs to application

5.4 Pass / Fail criteria

Pass or fail criteria will be set by the test engineers. They will prepare the pass / fail criteria on the basis of which input data are worked and which do not work well. Those data that are worked well will be considered as pass criteria. And rest of the input data will be considered as fail criteria.

Now we will give the pass / fail criteria below:

- System crash will not be considered as a pass case
- If any criteria pass 100% times, then it will be considered as pass criteria only
- If data can't be displayed to the application properly, then it is also to be considered as fail criteria.

5.5 Equivalent Class Partitioning

Original class partitioning is also known as original partitioning. In this fashion, input data is to be divided into groups. Those groups of data are anticipated to perform analogous geste. Each group works as same as other groups also.
The main advantage of following the approach of original class partitioning is to reduce the total number of test cases from horizonless to finite. Another advantage is that it can be applied to all testing situations also. For legal input value affair will produce a meaning data. But for an illegal input value, the affair won't produce meaningful data.

5.5.1 Black Box Testing

Black box testing is the process of test a software system without view the law. It just tests the operation system using input valid and invalid. Invalid testing if the system runs link works rightly the system is inaptly. Black box testing can be both functional andnon-functional. It ignores the internal medium of a system. We've decided to perform the original class partitioning and Boundary value analysis ways to apply

5.5.1 White Box Testing

White box testing is also a name of testing approach which is also known as clear box testing, glass box testing, open box testing, transparent box testing, law- grounded testing or structural testing. It's contrary to the black box testing. In black-box testing, the internal armature or algorithms isn't known to the testers whether the whole software armature is known to the testers while white box testing.
Testers can also prognosticate the affair of every test case for white box testing. White box testing can be classified into some situations. Similar as

• Unit Testing
• Integration Testing
• System Testing

The main advantage of white-box testing is that testing is more throughout and the testing can be started from the very morning stage.

5.6 Testing Environment (hardware/software requirements)

Testing environment means to prepare the environment with hardware and software so that test engineers can be able to execute test cases as required. Besides hardware and software usage, network configuration might be needed to execute test plans.

1. Browser: -Google Chrome, Firefox.
2. CoreI5, Ram# 8GB, SSD-120GB, HDD-1TB.

CHAPTER - 06

User Interface

5.1 Registration

5.2 Login

5.3 Admin Dashboard

5.4 Add Category

5.5 Show all category
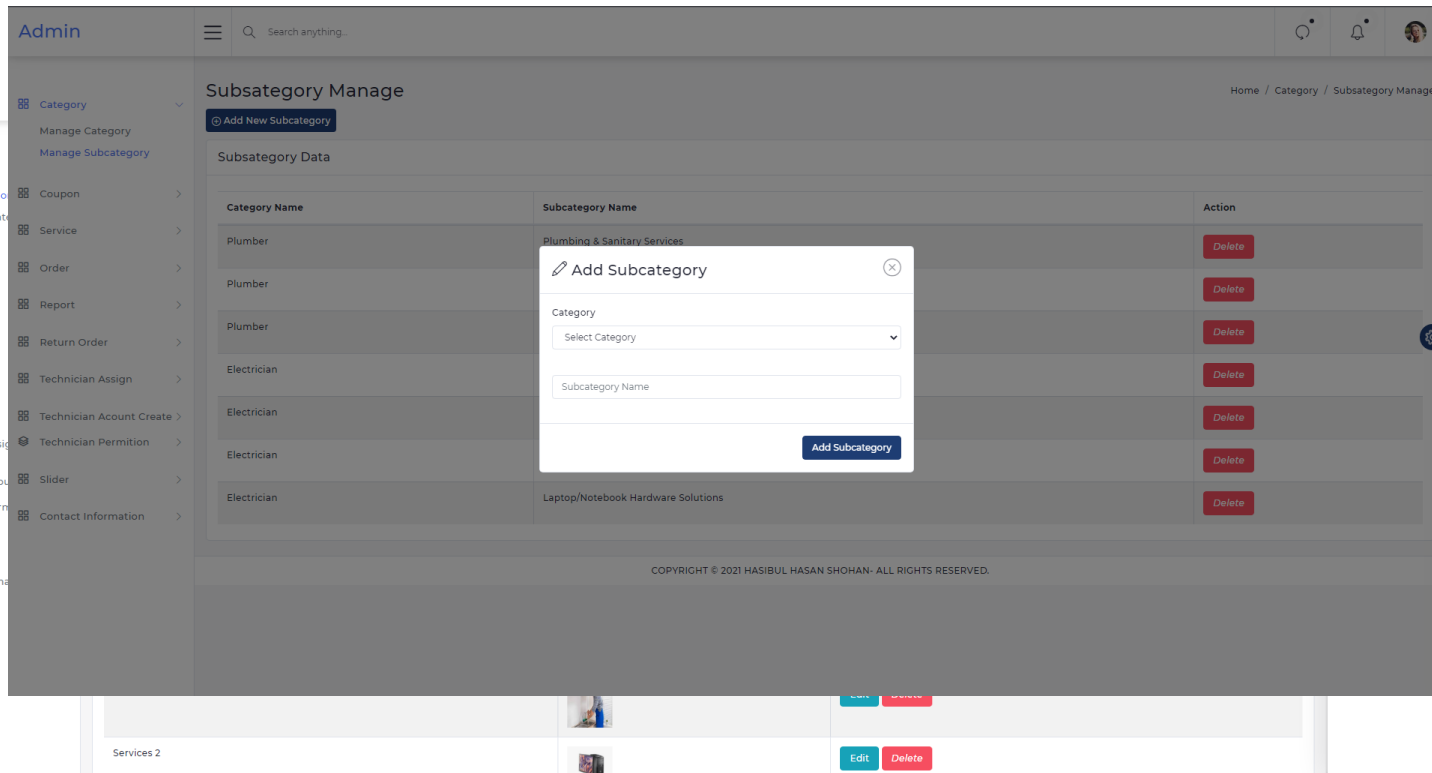
5.6 Edit Category

5.7 All Subcategory

5.8 Add Service

5.9 All Service

5.10 Technician Account Create

5.11 Technician Account Show

5.12 Add Technician Assign

5.13 Add Technician Assign
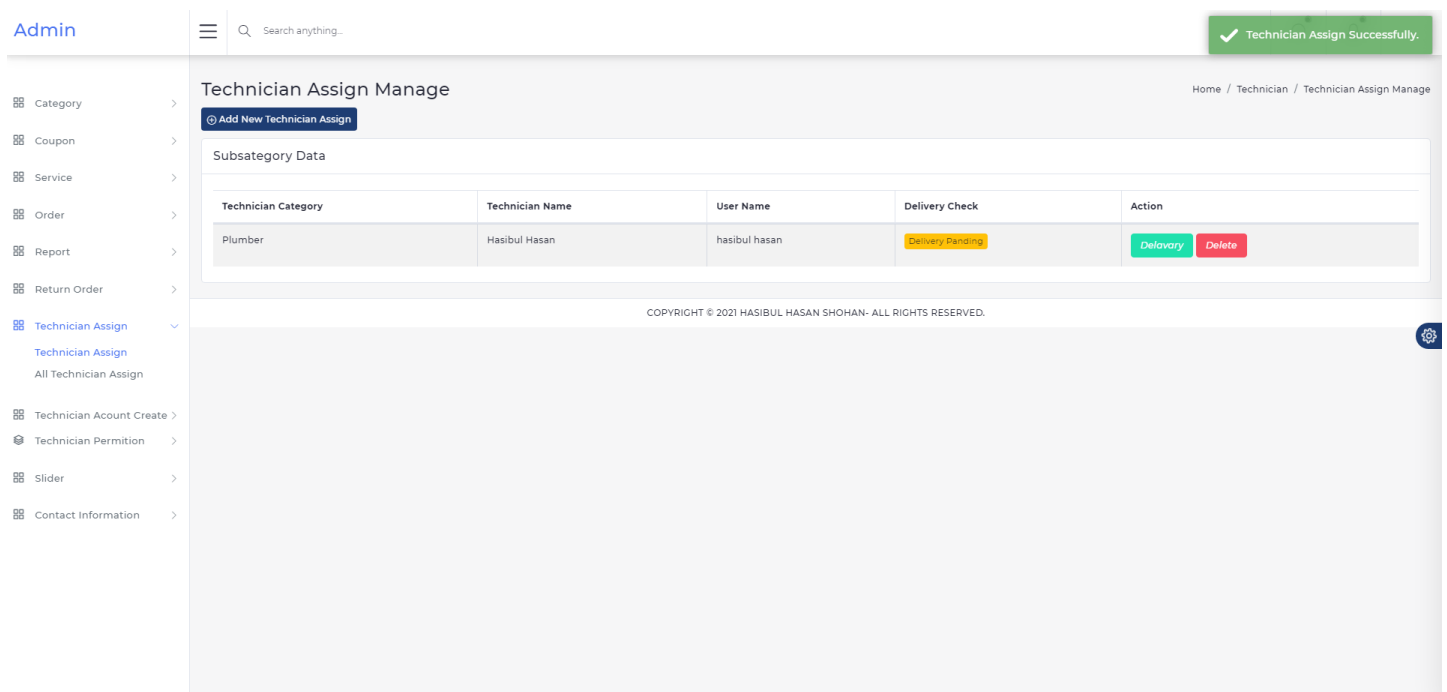
5.12 Placement Technician

Technician Assign Manage

Home / Technician / Technician Assign Manage

⊕ Add New Technician Assign

Subsategory Data

Technician Category	Technician Name	User Name	Delivery Check	Action
Plumber	Hasibul Hasan	hasibul hasan	Delivery Compleated	Delete

5.13 Show Assign Technician

Admin

subscribe Manage

Home / Category / Create Category

Category Data

Technician Category	Name	Email	Phone	Access	Action
Plumber	Hasibul Hasan	hasibul145@gmail.com	01785449161	Auto Active Account	Delete
Electrician	abc	abc@gmail.com	01785449161	Auto Active Account	Delete

Category
Coupon
Service
Order
Report
Return Order
Technician Assign
  Technician Assign
  All Technician Assign
Technician Acount Create ⌄
  Create Technician
  All Technician
Technician Permition
Slider
Contact Information

5.13 Technician Account

5.14 Update Slider

5.15 Update Setting

5.16 Pending Order

5.16 View Pending Order

5.17 Accept Order

5.17 User Order Status Show

5.17 Accept Order

5.17 User Order Status Change
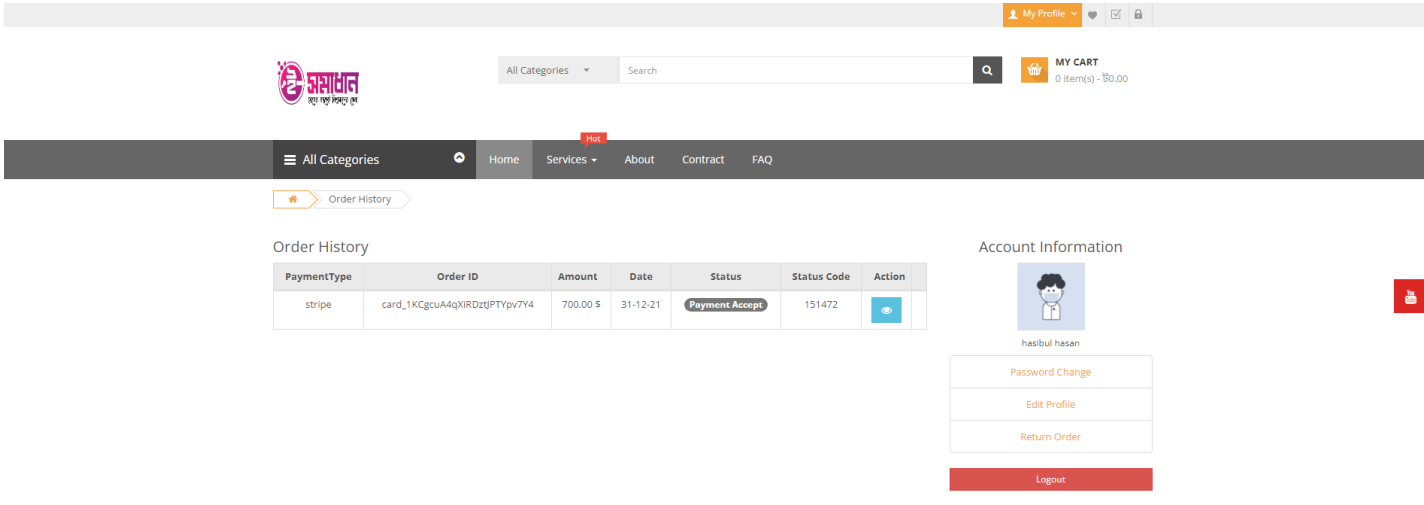
5.17 User Order Tracked

5.17 User Order Tracked Show

5.17 Show Report

5.17 Search Report

5.17 User slider show

5.17 User Service and category Show

5.17 All Service show

5.17 Category wise Service show

5.17 Select Service show

5.17 Select Service and apply Capone

5.17 Confirm service

5.17 Payment

5.17 Already Add Service for Favorite list show (Wishlist)

5.17 Service Details

5.17 Service Pop Up Details

5.17 Service Pop up Details

CHAPTER - 07

Project Summary

7.1 Limitations

1. The main limitation is system cannot handle million data and signals at time.

7.2 Obstacles and Achievement

Obstacles

- Learning new technology and new environment is a big issue.
- It's very difficult to complete a work within limited time.
- To collect requirements is a very tough.

Achievement

- Successfully built a project.
- Learnt a new technology.
- Deploy a project is a new experience.
- Learned the real-life experience by uploading project on the live server.
- Know about document and the development process.

7.3 Future Work

Though the system was developed as much as needed and its work properly. But I have to add something new features to make the systems fulfillment. The future work will include some major changes, such as-
- Live Chatting System

REFRENCES

How To: Write a Project proposal (Online) URL:

1. https://www.w3schools.com/ (Accessed on: 01-09-2021)

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< 1% match (student papers from 28-Jan-2021)
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Account