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Executive Summary

1.1 Project Overview

The purpose of this software is divided into 2 main parts:

- 1) To solve problems the majority of Tirana citizens have by providing automated services from DPSHTRR.
- 2) To help the DPSHTRR staff in:
 - a) Processing services
 - b) Management Part
 - c) Communication between sectors.

DPSHTRR e-services is a software which aims to make it easier and less time consuming specific services that “Drejtoria e Përgjithshme e Shërbimit të Transportit Rugor” offers to Tirana citizens. Everybody that has an account in this web application will have the opportunity to choose among several services. After choosing the desired service, a list of required documents will be shown. The client has to scan these documents and submit them in our web application. However, for the application to be complete, the client has to pay a certain fee. This fee can be paid either by bank or by credit Card. Now, the client has to wait until the employees on the other side check their documents. If the documents are accurate, then the status of the application will appear as “READY” and the client may go at the “DPSHTRR” office to pick up his service. Otherwise, the client will be informed about the missing/not accurate documents.

Our software will offer a wide specter of services that are provided by DPSHTRR and will select among all services the ones that are appropriate and fulfill all the criteria that is required by DPSHTRR structure and Albanian law. This software will come in help also to the employees of DPSHTRR in the manner of processing, management, communication and organization between different sectors of DPSHTRR. The modules of this software will be divided between sectors, where each sector has its own employees including the manager of that sector and the services that are provided by that specific sector.

The Graphic User Interface will be very easy in terms of usability, for both the citizens and the employees. The software will come in the format of a web application in which technologies like PHP, JavaScript, jQuery, AJAX, MySQL will be used.

1.2 Purpose and Scope of this Specification

The purpose of this document is to give a detailed description of the requirements for the “DPSHTRR e-services” software. It will illustrate the purpose and declaration for the development of system in different phases. It will also explain system constraints, interface and interactions with other external applications.

The DPSHTRR e-services Requirements Specifications document will have 3 major releases:

1. Version 1.0 which will behave as a draft version consisting in the first level of designing the software in terms of Executive Summary, Service Description and Requirements

2. Version 2.0 which will consist in a high-level designing framework of our software
3. Version 3.0 which focuses on detailing a low-level view of each component of the software and how the components interact with each other.

2. Product/Service Description

There will be general factors that will affect the product and its requirements such as:

- 1) People and Action
 - Developers
 - Users
 - Top management
 - Project Team
- 2) Development Processes
 - Requirements Determination
 - Project Management
 - User Participation
 - User Training
 - Management of change
- 3) Project Content
 - Project characteristics
 - Project scope, goals & objectives
 - Resources
 - Technology

2.1 Product Context

This product is independent and self-contained. It can behave as a one single platform but it has the feasibility to merge with the existing platforms or modules of DPSHTRR.

2.2 User Characteristics

DPSHTRR e-services will have different types of users according to their role

- Users from Drejtoria e Regjistrimit, Licensimit, Certifikimit
- Users from Drejtoria e Drejtuesve te Mjeteve
- Users from Drejtoria Ekonomike
- Users from Drejtoria e Teknologjise dhe Informacionit(Admin)
- Clients

It is important to specify that:

- **Drejtoria e Regjistrimit, Licensimit, Çertifikimit** will be divided into 2 sectors so there will be 2 subcategories of users in this department as listed below:
 - i. Sektori i Regjistrimit te Mjeteve
 - ii. Sektori i Licensimit dhe CertifikimitUsers from the first sector can nor see neither process applications related to the other sector.
- **Drejtoria e Drejtuesve te Mjeteve** will be divided into 2 sectors so there will be 2 subcategories of users in this department as listed below:
 - i. Sektori i drejtuesve te mjeteve
 - ii. Sektori i kontrollit te autoshkollaveFirst type of users will take care of services related to Individual Persons. The other one will process applications related to ‘Autoshkolla Clients’
- **Users from Drejtoria Ekonomike** will have the duty to check if the client has paid the fee for the certain application. They will change the application’s status of payment to “Yes” only if the full fee is paid. Without the approve of the finance, an application will not be processed by the respective sector. They will also have access in all transactions and payrolls.
- **Users from Drejtoria e Teknologjise dhe Informacionit** will act as administrators. In other words, they will be in charge of creating users according to sectors. Every problem concerning the system will be their task.
- **Clients** will be classified as:
 - i. Person Fizik - Every citizen of Albania will have the opportunity to register in the portal and create applications. By Application we mean request for a service. Once an account is created, a certain ID number will be generated to identify the user. The user cannot change the basic information such as Surname, ID number etc.

2.3 Assumptions

- A reliable internet connection is assumed to be available from both parts, the normal users(citizens) and the users that work for DPSHTRR.
- Minimum computer specifications to ensure the ability to run the basic software for most end users:
 - Processor – dual core @ 2.4 GHz (i3, i5 or i7 Intel processor or equivalent AMD)
 - RAM – 4GB
 - Hard Drive – 320GB 5400 RPM hard drive
 - Wireless (for lap tops) – WPA2 support required
 - Operating System – Windows 7, Apple OS X 10.11 or Ubuntu 10.10 (or equivalent Linux OS)

- Backup Device – External hard drive or USB flash drive

- It is assumed that all actions through this platform are performed according to the law.
- It is assumed that “Programi I Transparencies” according to “neni 7 te ligjt nr.199/2014 per Te drejten e Informimit” is public to all citizens of Albania from DPSHTRR official page.

2.4 Constraints

- Time constrain might force team members to compromise quality of the DPSHTRR e-services software.
- Stakeholders lack of cooperation might lead to project failure
- Server Specifications might lead to compromise in efficiency
- Labor Laws of Albania might lead into updating a module or the entire product
- A very high flux of users might affect the software quality in terms of performance

2.5 Dependencies

- Module of Services will depend on module of Structures of DPSHTRR
- In order to start processing the service, the user has to make the payment which will be confirmed by financial sector.
- In order to get a service, the user should sign up for the first time and prove his identity by one of the several options offered by the software.

3. Requirements

3.1 Functional Requirements

Req#	Requirement	Comments	Priorit y	Date Rvwd	SME Reviewed / Approved
FR_01	DPSHTRR e-services website	DPSHTRR e-services must have a website which everyone can access without registering in it. Different Categories such as Services offered, Procedures, Contact, Log in have to be displayed in it.	1		

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Req#	Requirement	Comments	Priorit y	Date Rvwd	SME Reviewed / Approved
FR_02	User Registration	The user must be able to register in the portal by providing: Passport Number/Personal Number, Name, Surname, Birthdate, Birthplace, Gender, e-mail address and password.	1		
FR_03	Random Unique Number generated after registration	Once a user is registered in the portal, a random ID will be automatically generated. The user cannot change this unique number.	1		
FR_04	Basic information of the user cannot be changed after registration	After registering, user cannot change basic info such as Name/Surname, Birthdate and Birthplace. Other information like phone number, email, Zip code may be changed.	1		
FR_05	Friendly account after logging in	When logged in, a nice and friendly front end page will be displayed to the user.	2		
FR_06	Several Modules offered	When logged in, modules like: Basic Information, All Applications and Create a new Application will be offered to the user.	1		
FR_07	'Create new Application' features	When clicking on 'New Application' a dropdown box filled with all the services offered by the system will be shown. After choosing a service, the price of that service and a list of required documents will be shown below.	1		

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Req#	Requirement	Comments	Priorit y	Date Rvwd	SME Reviewed / Approved
FR_08	Uploading the documents	At the right of each document an Upload button resides. If the user uploads a certain doc, a green Tick will appear next to that doc. Format allowed: JPEG, pdf	1		
FR_09	Constraints on sending the application	If the user tries to send the application without submitting all the required doc, an error message will pop up and the application will not be sent.	1		
FR_10	Payment features	Without payment, the application will not be processed. The user must have the opportunity to pay electronically by credit card.	1		
FR_11	Check for the status of application	When submitting the application, the user can check for its status at the 'All Applications' module. He can check for the status of payment as well as for the status of application's process.	1		
FR_12	Financier approves the payment	All the applications done by users will be sent first to the finance office. When the financier changes the status of payment to 'Paid', the application is sent only to the specific sector of employees.	1		

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Req#	Requirement	Comments	Priorit y	Date Rvwd	SME Reviewed / Approved
FR_13	Updating the status of the application	The account page for an employee must have at least the section of 'Completed Applications' and 'Pending Applications'. If an employee changes the status of application to 'complete' the application will be moved to the table of 1 st section.	1		
FR_14	Coordination of employees' work	When an employee of a specific sector opens an application of a client, other employees will see a symbol beside it meaning that someone else is processing it and would not be able to open.	1		
FR_15	SMS and Email Notification	After the application has been processed, the user will get notified via SMS and Email for the status of his/her application.	2		
FR_16	Retrieve forgotten password through email	If the user forgot the password of his account, he can use a temporary password sent to him through email and change it later.	1		
FR_17	Registration restriction	The system shall not allow registration of a user with the same first name, father's name and last name of an existing user.	2		
FR_18	Admin Access	The admin shall have access in all information and perform CRUD operations of all sectors	1		

3.2 Non-Functional Requirements

3.2.1 User Interface Requirements

The domain of DPSHTRR will redirect the user to the front-end web page of DPSHTRR where they can information about services and operations that our software does. In this view, there will be different categories from the information side and also this page will include a section where the users will sign up for the first time and a section where they sign in. The Sign In interface will be responsible for the sign in from both parts, the citizens and the management. If the user inputs wrong credentials there will be an alert. The sign in interface will also have a Forgot Password function. After the user(citizen) logs in, it will be shown the dashboard interface with a menu from where the users will request their services and where they can get detailed information about the services and their account. From the management part of DPSHTRR different views and functionalities will come up depending on the sector that the employee works. Different sectors will deal with different services, they will have a dashboard interface where they can get all the general information, inside this view will be a menu that will offer the different operations that the employee can do. All interfaces have to be very simple for every kind of users that the system will have by giving detailed descriptions in every interaction that the system has with the users.

3.2.2 Usability

The software shall have a simple usability in terms of:

- 1) Accessibility
- 2) Efficiency
- 3) Learnability
- 4) Responsiveness (including different devices)
- 5) Performance

3.2.3 Performance

On behalf of performance we will make sure our program performs at its highest speed.

- The software should support unlimited users and data to be loaded, since we know the environment in which it will work so building a strong server is a must.
- The performance of the software is going to depend on the server used. JavaScript and Ajax will be used which means that it will be light weighted and the browser won't crash.
- Beside this we will specify minimum required system capabilities for each user using our software.
- Also, we will clarify the minimum upload to be used in order to avoid system crash.

3.2.3.1 Capacity

The software will operate in the whole region of Albania state where thousands of people can achieve online service without being in line or losing time. Multiuser will be supported and they can perform their tasks without any problem, performance will be on top of everything.

3.2.3.2 Availability

The Software will be available nonstop 24/7 for everyone than need service. Since our Software project is for general purposes, it will cover and operate in whole region of Albania state. People will realize at the end (after getting serviced) the amount of time that is saved but it will have a big impact in society for further problems raised. They even can check their status online, so when everything is ready they can go and pick their service.

3.2.3.3 Latency

The response time for the program to process some data will be very efficient and very fast, but as mentioned above it will be explained when completed about minimum system requirement for the software to be usable.

3.2.4 Manageability/Maintainability

3.2.4.1 Monitoring

The program as we have previously mentioned will be user friendly, and very easy to use. Also, a “?” button will be available on top corner of the program’s window so the user can check for solutions in case they have some problems with the program. Also we will provide a channel for users to directly contact with a person responsible with the way the system works.

3.2.4.2 Maintenance

We will provide simplicity of “coding structure” which will make easy to go back and improve the software.

3.2.4.3 Operations

Everybody that has an account in this web application will have the opportunity to choose among several services. After choosing the desired service, a list of required documents will be shown. The client has to scan these documents and submit them in our web application. However, for the application to be complete, the client has to pay a certain fee. This fee can be paid either by bank or by credit Card. Now, the client has to wait until the employees on the other side check their documents. If the documents are accurate, then the status of the application will appear as “READY” and the client may go at the “DPSHTRR” office to pick up his service. Otherwise, the client will be informed about the missing/not accurate documents.

3.2.5 Security

3.2.5.1 Protection

The factors that will protect the system from malicious or accidental access, modification, disclosure, destruction, or misuse. For example:

- Encryption
- activity logging, historical data sets
- data integrity checks

Security provided to the access of user private information.

Security provided to access of data.

Restriction provided to access of data.

3.2.6 Data Management

There will be variety types of data which will be places in our database:

1. Firstly we will have the data for the user such is name, surname, email address, telephone number etc. The user can be an employer of the company or a client.
2. There will be data for all the types of services that can be offered to the client.
3. There will be financial data for all the services that the client will need.
4. Certain data will be accessed by certain users respect to the tasks they must perform, so not all the data can be accessed by everyone.

For example, economist or finance office will take carry about the fees if they are paid correct or not.

5. The system will also require some different document format uploads, such as PDFs, words, jpg, etc.

3.2.7 Standards Compliance

The user in order to sign in to the web to make the request for the desired service, he must register firstly, with his personal data. Then he can proceed to request the service, after that he need to complete all the document that are required for that specific service and also the fee needed to be paid. The user has to wait until the employer approves the documents and after that all is done.

3.2.8 Portability

Our software can be running on different platform without an additional effort. Our web application which is developed mainly in PHP will be accessed by Safari, Chrome, Mozilla, etc. so the application will be portable even from smart phones. Other technologies that will be used in our web application is HTML, CSS, BOOTSTRAP, MYSQL, JAVASCRIPT, AJAX etc. The whole database will be saved in ‘DSHPTRR’ server.

3.2.9 Other Non-Functional Requirements

3.2.9.1 Environmental Requirement

- The software will be operating all the time nonstop. So, a client can make his request at what time he is able and comfort to do it. Its performance is measured when a subsystem fails, so the ability it has to restore in the previous or normal state is a manner that eliminates or at least minimizes down time.

3.2.9.1 Operational Requirement

- Reporting in the real time
- Backup and recovery information

3.2.9.2 External Requirement

- The system shall not disclose any personal information about customers
- The database should be encrypted

3.3 Domain Requirements

Domain requirement is about the environment that the system will operate. In our case, we have to deal with requesting and processing services.

Our system has to take into account:

- unclear documents submitted by the clients
- Poor desktop resolution
- Documents without appropriate seal

4. Software Design/Diagrams

4.1 User Scenarios

1. Scenario – Client Successful Registration

- a. Navigates to the DPSHTRR e-services front page
- b. Clicks Log In/Sign Up button
- c. Gets redirected to the log in page
- d. The log in page is displayed with a register button at the bottom
- e. Clicks the register button
- f. Gets redirected to the Sign-Up page
- g. The Sign-Up page is displayed with the appropriate fields to be filled by the client
- h. Fills the fields with the correct format
- i. Clicks the Register button
- j. A message that shows that the register is successfully done pops

2. Scenario – Client Unsuccessful Registration

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- a. Navigates to the DPSHTRR e-services front page
- b. Clicks Log In/Sign Up button
- c. Gets redirected to the log in page
- d. The log in page is displayed with a register button at the bottom
- e. Clicks the register button
- f. Gets redirected to the Sign-Up page
- g. The Sign-Up page is displayed with the appropriate fields to be filled by the client
- h. Fills the fields with an incorrect format
- i. Clicks the Register button
- j. A message that shows that the register is unsuccessful because of the x-incorrect format filled by the user

3. Scenario – Client Successful Log In

- a. Navigates to the DPSHTRR e-services front page
- b. Clicks Log In/Sign Up button
- c. Gets redirected to the log in page
- d. The Id and password field is displayed
- e. Client fills his ID correctly
- f. Client fills his password correctly
- g. Gets redirected to the Client profile

4. Scenario – Client Unsuccessful Log In

- a. Navigates to the DPSHTRR e-services front page
- b. Clicks Log In/Sign Up button
- c. Gets redirected to the log in page
- d. The Id and password field is displayed
- e. Client fills his ID or password incorrectly
- f. Credentials don't match, an alert is shown
- g. Gets redirected to the log in page again to enter his credentials

5. Scenario – Employee Successful Log In

- a. Navigates to the DPSHTRR e-services front page
- b. Clicks Employee Log In button
- c. Gets redirected to the log in page for employees
- d. The Id, sector dropdown and password field is displayed
- e. Employee enters his Id
- f. Employee chooses his sector

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- g. Employee enters his password
- h. If credentials match, employee is successfully logged in
- i. Gets redirected to his profile of the sector that he works

6. Scenario – Employee Unsuccessful Log In

- a. Navigates to the DPSHTRR e-services front page
- b. Clicks Employee Log In button
- c. Gets redirected to the log in page for employees
- d. The Id, sector dropdown and password field is displayed
- e. Employee enters his Id
- f. Employee chooses his sector
- g. Employee enters his password
- h. Credentials don't match, an alert is shown
- i. Gets redirected to the log in page again to enter his credentials

7. Scenario – Client Forgot Password

- a. Navigates to the DPSHTRR e-services front page
- b. Clicks Log In/Sign Up button
- c. Gets redirected to the log in page
- d. The log in page show a Forgot Password? option
- e. Client clicks Forgot Password link
- f. Gets redirected to the Forgot Password page
- g. Enters his email
- h. If email match, a new generated password will be sent to him via his email

9. Scenario – Admin Add Employee

- a. Administrator is logged in
- b. Clicks the Employees section
- c. An Add Employee button at the bottom of the employees' information table will be shown
- d. Administrator clicks the Add Employee Button
- e. Registration form is shown
- f. Complete the registration form with the appropriate format
- g. Clicks the Add Employee button at the bottom
- h. Gets redirected to the updated list of employees
- i. The registered employee will be shown at the top of the list

8. Scenario – Admin View Employee

- a. Administrator is logged in
- b. Clicks the Employees section
- c. A table with all employees' information will be displayed
- d. Clicks on a specific employee for more details

9. Scenario – Admin Edit Employee

- a. Administrator is logged in
- b. Clicks the Employees section
- c. An Edit button will be shown at the Actions Column for each employee
- d. Clicks the edit button for that specific employee
- e. A form will be shown with the existing values of that employee
- f. Administrator edits the desired employee fields
- g. Clicks the edit button
- h. An “Are you sure” alert will pop up
- i. Clicks the confirm button of the alert
- j. Gets redirected to the updated list of employees
- k. Email the employee for the changes or his new credentials

10. Scenario – Admin Delete Employee

- a. Administrator is logged in
- b. Clicks the Employees section
- c. A Delete button will be shown at the Actions Column for each employee
- d. Clicks the delete button for that specific employee
- e. An “Are you sure” alert will pop up
- f. Clicks the confirm button of the alert
- g. Gets redirected to the updated list of employees

11. Scenario – Admin Add Service

- a. Administrator is logged in
- b. Clicks the Services section
- c. An Add Service button at the bottom of the Services' information table will be shown
- d. Administrator clicks the Add Service Button

- e. Registration form is shown
- f. Complete the registration form with the appropriate format
- g. Clicks the Add Service button at the bottom
- h. Gets redirected to the updated list of services
- i. The added service will be shown at the top of the updated list

12. Scenario – Admin View Service

- a. Administrator is logged in
- b. Clicks the Services section
- c. A table with all services' information will be displayed
- d. Clicks on a specific service for more details

13. Scenario – Admin Edit Service

- a. Administrator is logged in
- b. Clicks the Services section
- c. An Edit button will be shown at the Actions Column for each service
- d. Clicks the edit button for that specific service
- e. A form will be shown with the existing values of that service
- f. Administrator edits the desired service fields
- g. Clicks the edit button
- h. An “Are you sure” alert will pop up
- i. Clicks the confirm button of the alert
- j. Gets redirected to the updated list of services

14. Scenario – Admin Delete Service

- a. Administrator is logged in
- b. Clicks the Service section
- c. A Delete button will be shown at the Actions Column for each service
- d. Clicks the delete button for that specific service
- e. An “Are you sure” alert will pop up
- f. Clicks the confirm button of the alert
- g. Gets redirected to the updated list of services

15. Scenario – Admin View Directories/Sectors

- a. Administrator is logged in
- b. Clicks the Directories section
- c. Gets redirected to the directories page showing different information for each directory
- d. Clicks a specific directory for a detailed information

16. Scenario – Admin Add Document Type

- a. Administrator is logged in
- b. Clicks the Documents section
- c. Gets redirected to the documents page showing the list of all documents
- d. An Add Document button at the bottom of the Document's information table will be shown
- e. Clicks the add button
- f. Add a document form is shown
- g. Clicks the Add Document button at the bottom
- h. Gets redirected to the updated list of documents

17. Scenario – Admin Edit Document Type

- a. Administrator is logged in
- b. Clicks the Documents section
- c. Gets redirected to the documents page showing the list of all documents
- d. An Edit button will be shown at the Actions Column for each document
- e. Clicks the edit button for that specific document
- f. A form will be shown with the existing values of that document
- g. Administrator edits the desired document fields
- h. Clicks the edit button
- i. An “Are you sure” alert will pop up
- j. Clicks the confirm button of the alert
- k. Gets redirected to the updated list of documents

18. Scenario – Admin Delete Document Type

- a. Administrator is logged in
- b. Clicks the Documents section
- c. Gets redirected to the documents page showing the list of all documents
- d. A Delete button will be shown at the Actions Column for each document
- e. Clicks the Delete button for that specific document
- f. An “Are you sure” alert will pop up
- g. Clicks the confirm button of the alert
- h. Gets redirected to the updated list of documents

19. Scenario – Admin View Client

- a. Administrator is logged in
- b. Clicks the Clients section
- c. Gets redirected to the clients' page showing the list of all clients and basic information
- d. Clicks a specific client for a detailed information

20. Scenario – Admin Edit Client

- a. Administrator is logged in
- b. Clicks the Clients section
- c. Gets redirected to the clients' page showing the list of all clients and basic information
- d. An Edit button will be shown at the Actions Column for each client
- e. Clicks the edit button for that specific client
- f. A form will be shown with the existing values of the client
- g. Administrator edits the desired client fields
- h. An “Are you sure” alert will pop up
- i. Clicks the confirm button of the alert
- j. Gets redirected to the updated list of clients

21. Scenario – Admin Ban Client

- a. Administrator is logged in
- b. Clicks the Clients section
- c. Gets redirected to the clients' page showing the list of all clients and basic information
- d. A Ban button will be shown at the Actions Column for each client
- e. Clicks the ban button for that specific client
- f. An “Are you sure” alert will pop up
- g. Clicks the confirm button of the alert
- h. Gets redirected to the updated list of clients

22. Scenario – Client Successful Service Request

- a. Client is logged in
- b. Clicks Request a Service(Application) section
- c. Choose the desired service that is requesting for
- d. Uploads the necessary documents for the chosen service in the correct format
- e. Clicks the submit button
- f. Gets redirected to the View all Applications section and sees the updated list of his applications with the recent submitted at the top and can see the status of the application.

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- g. There will be provided two options and the actions column specifically “Pay with Card” and a “Paid with Bank” for every unpaid application.

23. Scenario – Client Pay Service Requested with Card

- a. Client is logged in
- b. Client is at the View All Applications section
- c. A “Pay with Card” button will be shown at the Actions Column for unpaid Service Requests
- d. A Modal will pop up asking for Credit Card Number, Expiration Date and CVC
- e. If the client fills the correct information of the card, he will be redirected to a page that confirms his payment
- f. If the client fills incorrect information of the card, he will be redirected to a page that indicates that the payment was not done

24. Scenario – Client Paid Service Requested with Bank

- a. Client has done the payment through bank to the DPSHTRR account
- b. Client logs in
- c. Client clicks the View All Applications section
- d. A “Paid with Bank” button will be shown at the Actions Column for unpaid Service Requests
- e. Client will be redirected to a form to submit the transaction document that got from the bank
- f. Waits for the employee to approve the payment

25. Scenario – Client View All Paid Services

- a. Client is logged in
- b. Client clicks the Finance section
- c. A list of all paid services will be shown
- d. The user can see the total amount of all services that he has paid

26. Scenario – Client Submit Question/Complain

- a. Client is logged in

- b. Client is at the dashboard section
- c. A text area is displayed where he can write his question/complain
- d. Client clicks the Send button
- e. Client waits for employee to contact him through phone number or email

27. Scenario – Employee View All Applications

- a. Users from “Drejtoria e Regjistrimit, Liçensimit, Çertifikimit / Drejtoria e Drejtuesve te Mjeteve” is logged in
- b. All applications section will be shown
- c. A list of all applications that are related with that specific directory will be shown from the recent ones provided with additional information

28. Scenario – Employee View Application

- a. Users from “Drejtoria e Regjistrimit, Liçensimit, Çertifikimit / Drejtoria e Drejtuesve te Mjeteve” is logged in
- b. All applications section will be shown
- c. A list of all applications that are related with that specific directory will be shown from the recent ones provided with additional information
- d. Clicking into an application will open the application with all the information and documents submitted by the applicant
- e. Each document will have the “Download” and “Print” option
- f. Employee changes the status to the appropriate one

29. Scenario – Employee Change Payment Status

- a. Users from “Drejtoria Ekonomike” is logged in
- b. Clicks New Application Section to see the applications that have been submitted as paid by bank
- c. Downloads the document issued from bank that was submitted as a proof by applicant
- d. Verifies the proof of the payment
- e. Changes status to “Paid”

4.2 User Cases

Use Case NO.	1
User Case Name	Client Successful Registration
Overview	Every client that needs a service from DPSHTRR is required to register in the DPSHTRR system
Actor(s)	The system of “DPSHTRR”
Description	The system registers in the database every new client who completes the registration in the “DPSHTRR” web page
Pre-condition	The client has been not registered before in the system
Alternative	In case this new client is registered already before, it will not be added into the database
Post condition	The new client is added to the database list.

Use Case NO.	2
User Case Name	Client Successful Log In
Overview	Client after registration enters in the system by providing his/her personal data. After that he can proceed to the service he wants.
Actor(s)	The client
Description	Each new client get access to the system by providing his/her ID and password correctly
Pre-condition	The client should already have created his own account before logging in
Alternative	The can log in into the system as many times as he wants or needs to log in

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Post condition	The client access the system and can request the service
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Use Case NO.	3
User Case Name	Employee Successful Log In
Overview	The DSHPTRR employees get access to the system by providing his/her personal credentials.
Actor(s)	DPSHTRR employees
Description	To enter in the system the employee need to provide his/her own ID, sector and the password correctly
Pre-condition	Each of the employees should have been already provided with an account before logging in the system

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Alternative	The same employee can be logged in the system many times
Post condition	Than the employee access the system of the DPSHTRR

Use Case NO.	4
User Case Name	Admin Add Employee
Overview	If an employee needs to be added in the system, the admin will register and provide him/her with a personal profile in the system
Actor(s)	Administrator of the DPSHTRR
Description	For adding this employee in the system and creating the profile is responsible the administrator

DPSHTRR E-Service – Product Documentation

Pre-condition	The employee need a personal profile in the system in order to have access in the institution functionalities
Alternative	The system will warn the admin if any of the fields is not filled properly.
Post condition	Now the employee is part of the institution and can access the system

Use Case NO.	5
User Case Name	Admin delete employee
Overview	In case an employee have to be removed from the system, administrator is the person responsible
Actor(s)	Administrator
Description	When a specific employee is no longer working in that institution or service should be deleted by the administrator

DPSHTRR E-Service – Product Documentation

Pre-condition	The board of the institution decides that this employee will not be part of the service anymore
Alternative	The account of the employee can be deleted after he/she is logged out from the system
Post condition	The employee is removed from the database of the institution

Use Case NO.	6
User Case Name	Admin edit employee
Overview	In a case a profile or personal data of the employee needs to be modified, administrator is responsible

DPSHTRR E-Service – Product Documentation

Actor(s)	Administrator
Description	Administrator is responsible for all data updating of the employee
Pre-condition	In order the profile to be updated the employee firstly asks for this service that he/she needs
Alternative	The update can't be done if the fields are not filled properly
Post condition	Now the user profile is updated successfully

Use Case NO.	7
User Case Name	Client forgot password
Overview	If the client has forgotten the password after being registered in the system, he can reset the password by using his/her email.

DPSHTRR E-Service – Product Documentation

Actor(s)	Client, DPSHTRR system
Description	If a client has forgotten his/her password, in order to request a service, he/she needs to reset the password
Pre-condition	In case he/she wants to reset the password, the client needs to enter the email he/she has used when she was registered.
Alternative	There is no alternative way to reset password
Post condition	The client has received his/ her new password, now requesting a service is available

Use Case NO.	8
User Case Name	Admin add service

DPSHTRR E-Service – Product Documentation

Overview	In case a new service will be able to complete online from the clients, it has to be added in the system
Actor(s)	Administrator
Description	When a new service needs to be added into the system, administrator is the person responsible for this
Pre-condition	In order the client to make a request for this new service, firstly is needed to be added in the system
Alternative	The system will warn to the admin if there is anything wrong while filling the form
Post condition	Now the new service is added and every client can make a request for this new service

DPSHTRR E-Service – Product Documentation

Use Case NO.	9
User Case Name	Admin edit service
Overview	A service may need to be modified for a specific reason, for ex: to request an additional document from the client
Actor(s)	Administrator
Description	In case a service needs to be edited the administrator is responsible
Pre-condition	In order the service to be updated the administrator should be informed by the sector of that service and has to be logged in as Admin.
Alternative	There is no alternative solution
Post condition	Now the service is ready with all the documents needed to provide from the client

Use Case NO.	10
User Case Name	Admin Delete service
Overview	A service may not be offered for a specific reason, or because service needs to be fixed. At this point Service is deleted.
Actor(s)	Administrator
Description	In case a service needs to be Deleted the administrator is responsible.
Pre-condition	Administrator has gotten information that a service need to be deleted from the system, for a specific reason and should be logged in as Admin.
Alternative	No other Alternative.
Post condition	The user will no longer face anymore the service that was deleted.

Use Case NO.	11
User Case Name	Admin add Document Type
Overview	Document's change as time passes. So Admin should provide users with the appropriate documents in compliance with laws.
Actor(s)	Admin
Description	Admin is in charge to change the document type for a service (if no longer documents early given are enough)
Pre-condition	In order to update document type, the administrator should be informed by the sector of that service and has to be logged in as Admin.
Alternative	No alternative since documents are very important.
Post condition	Now the document type is ready, and can be used by users.

Use Case NO.	12
User Case Name	Admin view client
Overview	Admin chooses to have a look on client detailed information.
Actor(s)	Admin
Description	In case Admin wants to check client information
Pre-condition	Log in as Admin and click client section and chose among clients.
Alternative	When a client is not clicked, on mouse over basic information are shown.
Post condition	Now the Admin has viewed the personal information of a client.

Use Case NO.	13
User Case Name	Admin edit Client
Overview	When client is being registered some of its credentials may have been written wrong.
Actor(s)	Admin
Description	Admin has the ability to access system and edit some of clients personal information due to mistakes when was being registered.
Pre-condition	Admin should know the client, whose personal information is going to be edited and should be logged in as Admin.
Alternative	This is no other way.
Post condition	The client information is being updated when rechecked.

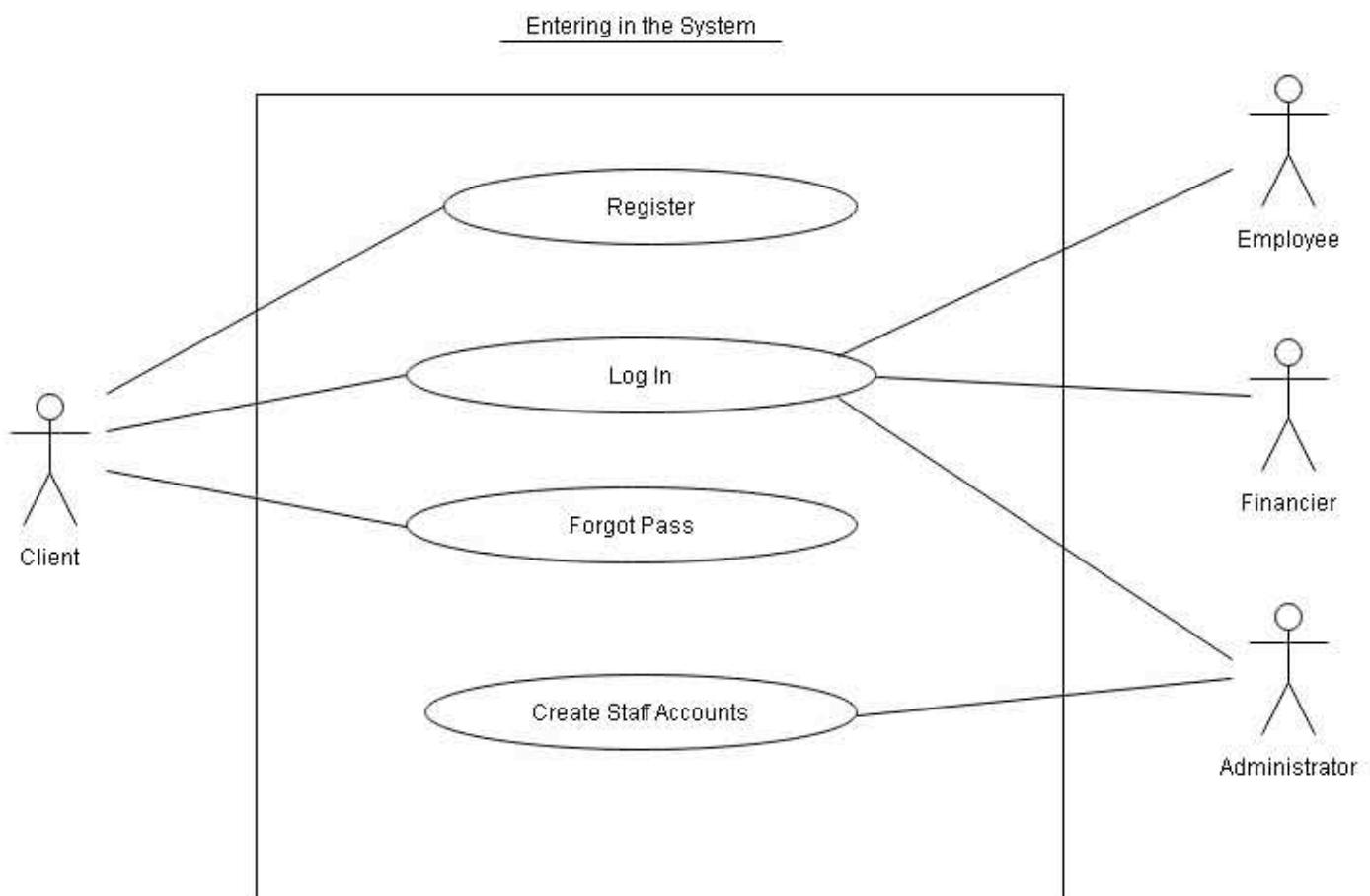
Use Case NO.	14
User Case Name	Client service request
Overview	A client after logging in, chooses a service, provides required documents and the service is listed among other chosen services.
Actor(s)	Client
Description	In case client want a service, he successfully logs in and provides documents for the service that he wants.
Pre-condition	Client should have an account and he should be logged in at the moment he requests services.
Alternative	There is no other Alternative
Post condition	The service that a client chose will be shown on a list among other services previous selected.

Use Case NO.	15
User Case Name	Client pay Service
Overview	After a client chooses the service, at the end he should provide a fee, which is different for different services.
Actor(s)	Client
Description	When a client successfully finishes all the steps of selecting service and provides appropriate documents required, He/She will face a payment service.
Pre-condition	Client should be logged in, and should have requested a service.
Alternative	The service will appear unpaid.
Post condition	Client will get a confirmation message for the payment made and his service is successfully requested.

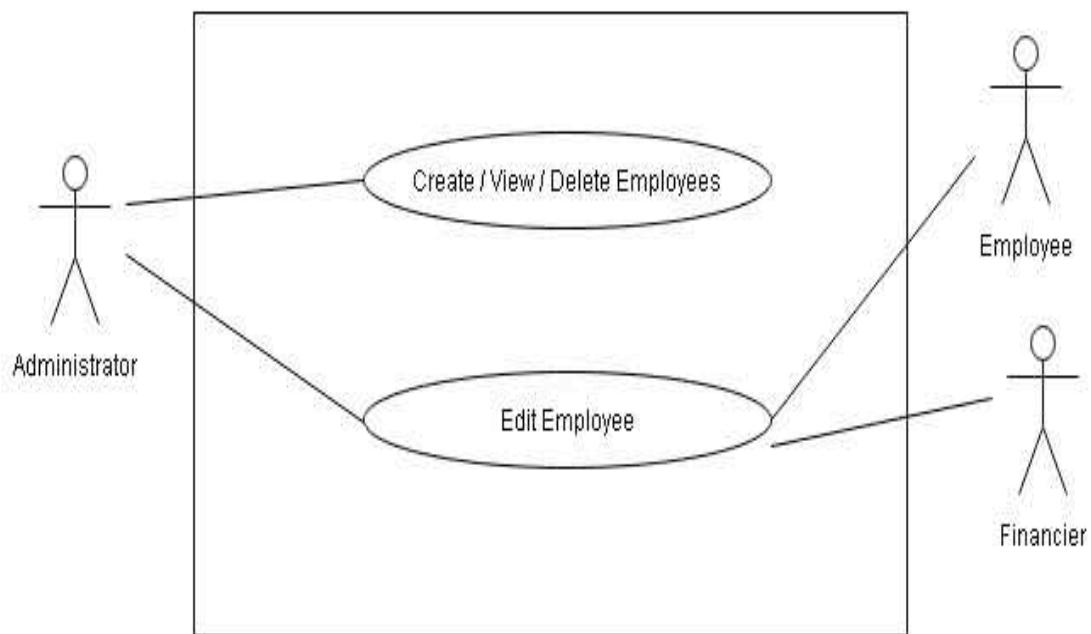
	16
User Case Name	Client view
Overview	A client may want to check his information, his payment, his requested services.
Actor(s)	Client
Description	In case a Client wants to check his system (payment, services requested, personal information).
Pre-condition	Client should be logged in to check his System.
Alternative	Client should log in on his account.
Post condition	Now the Client can have a clearer idea on his account

Use Case NO.	17
User Case Name	Client Submit Question/Complain
Overview	A client will be provided with an area where he/she can make question and provide complains.
Actor(s)	Client
Description	In case a client has questions/complains he will write in detail and will send through a send button to the staff.
Pre-condition	In Order to make a question/complain the Client should be logged in.
Alternative	Can write on the email.
Post condition	The client's question/complain is successfully sent to the staff which will take in consideration clients question/compliance and will provide him/her with an answer.

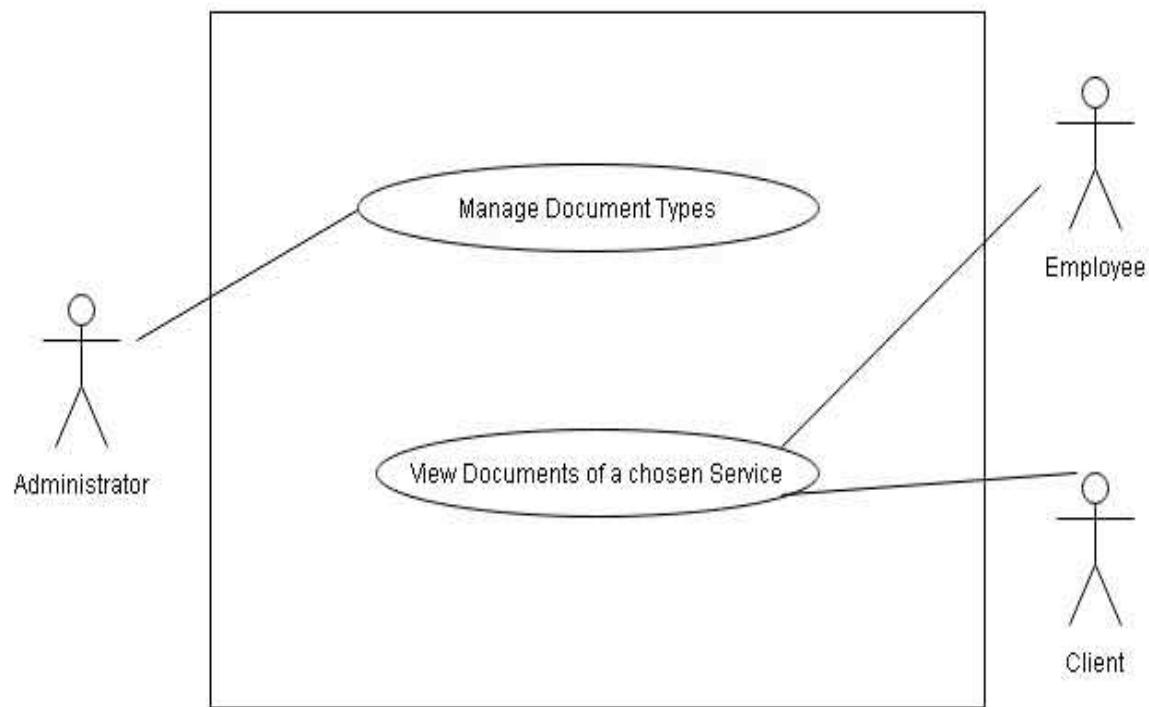
4.3 Use Case Diagrams

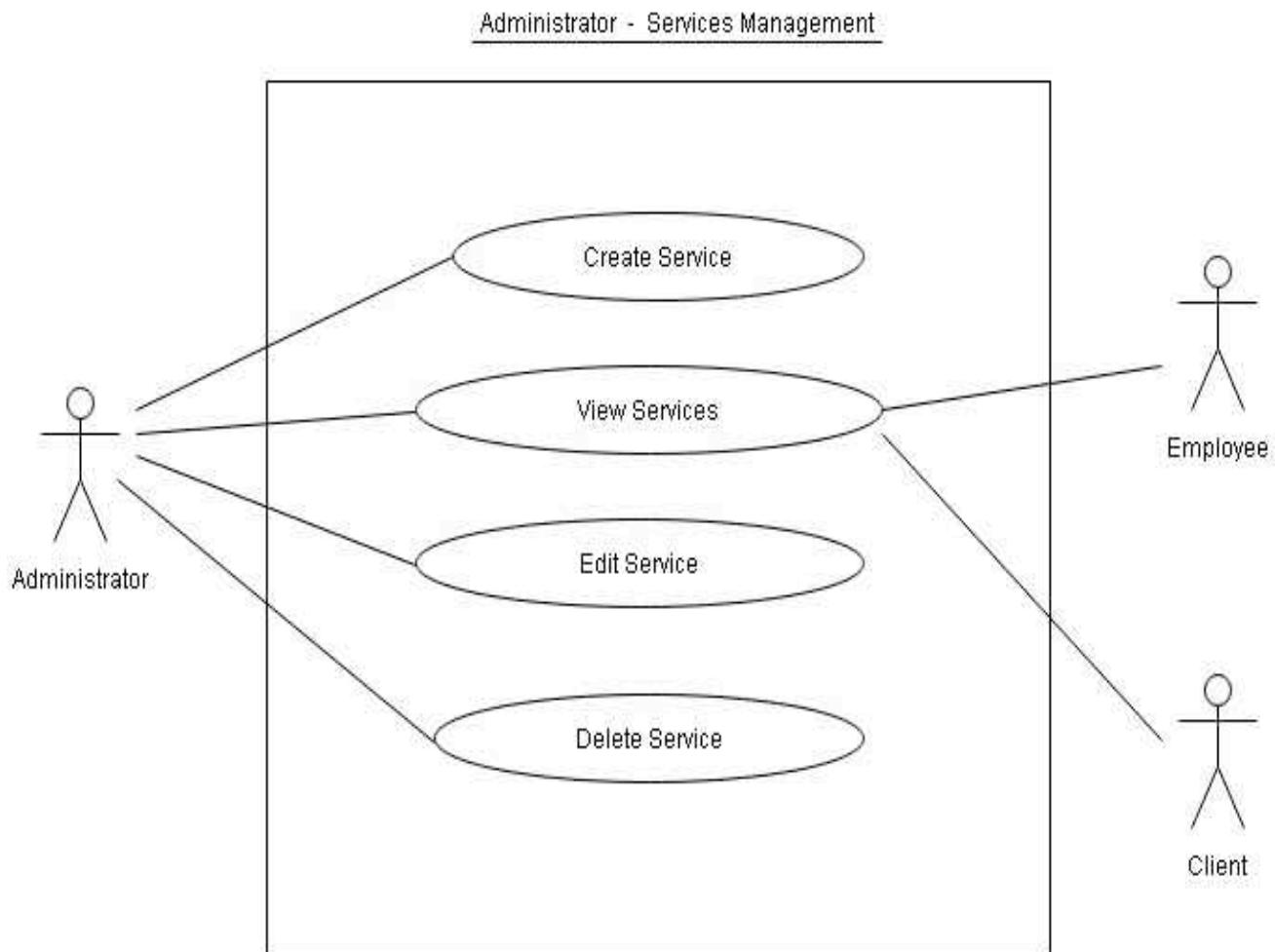


Administrator - Employee Management

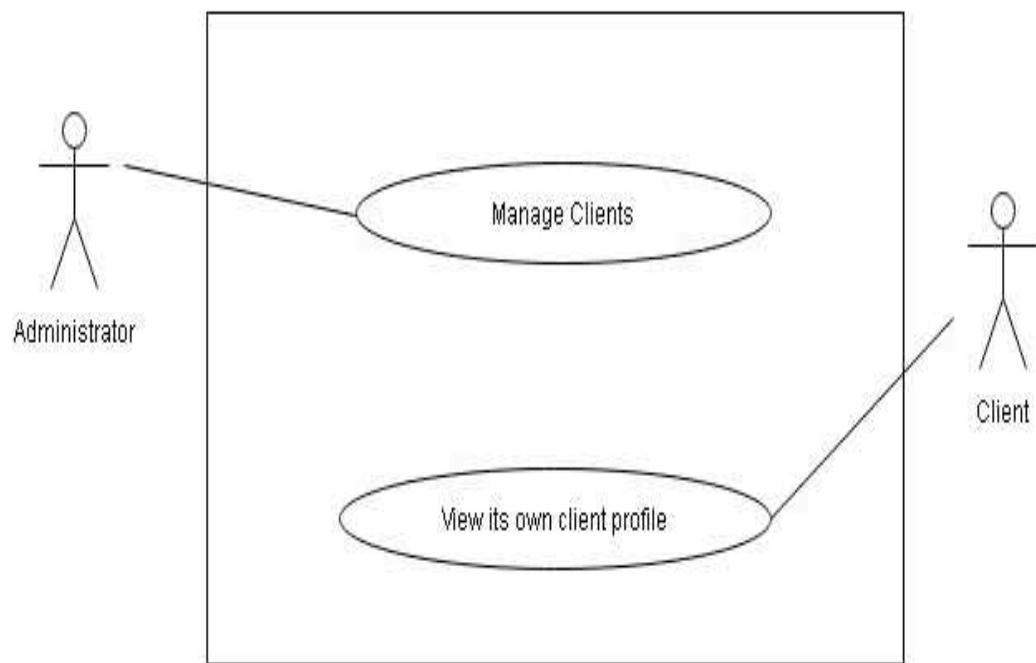


Administrator - Documents Management

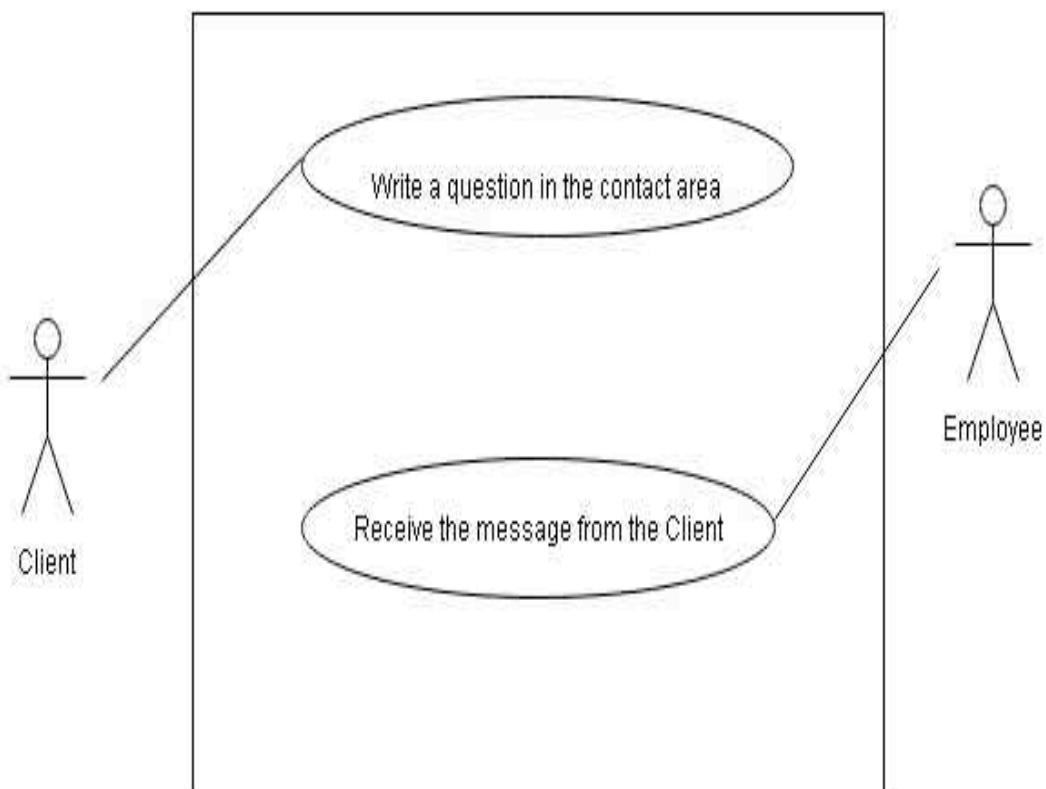


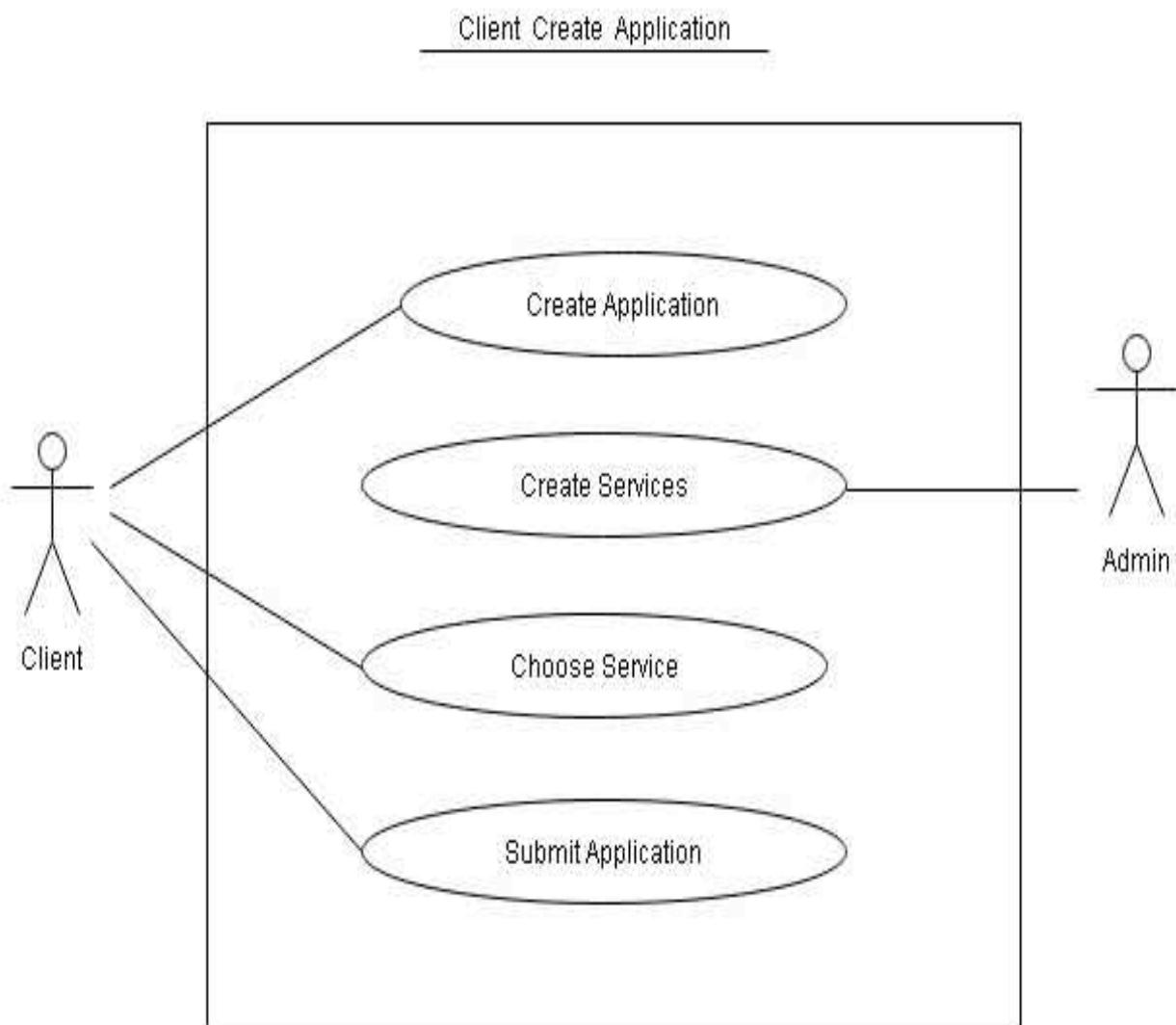


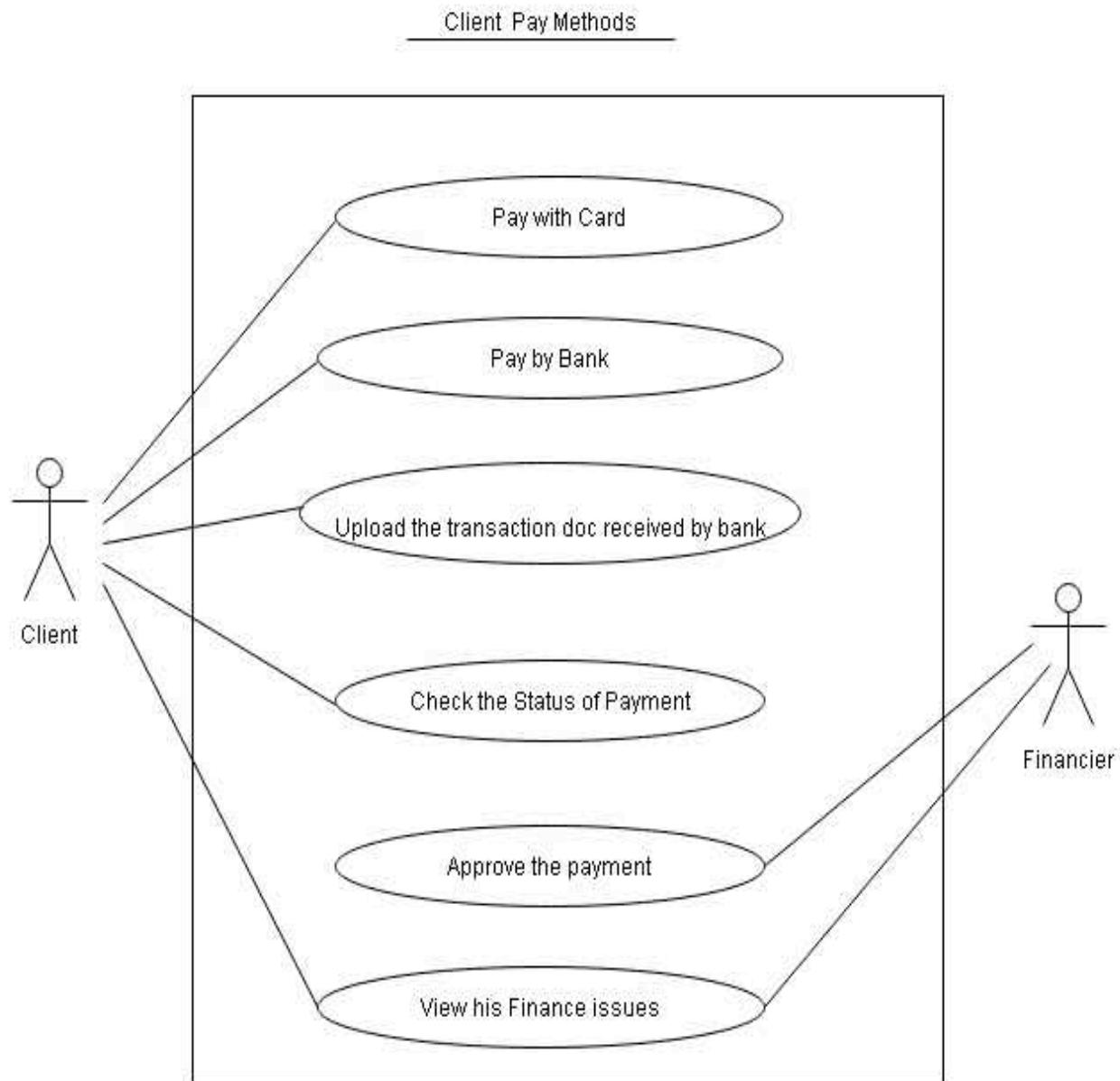
Administrator - Clients Management

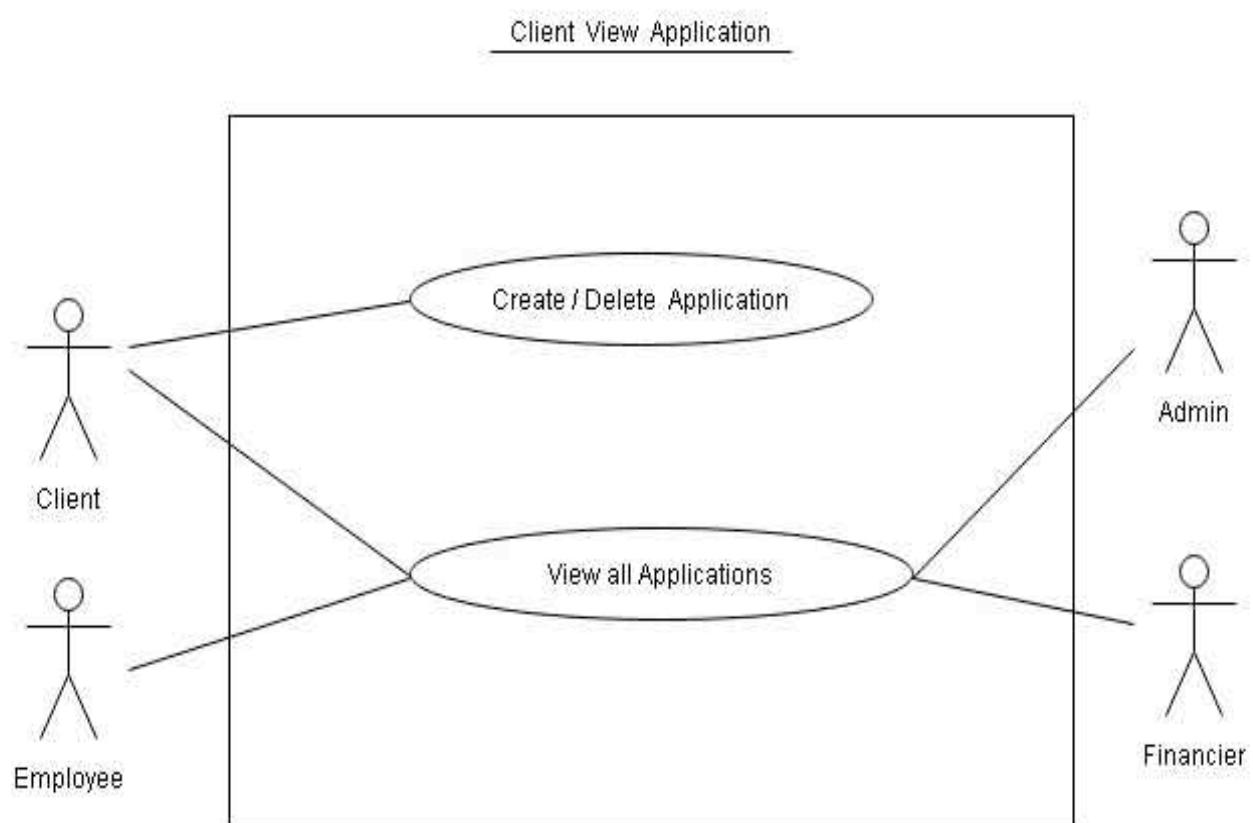


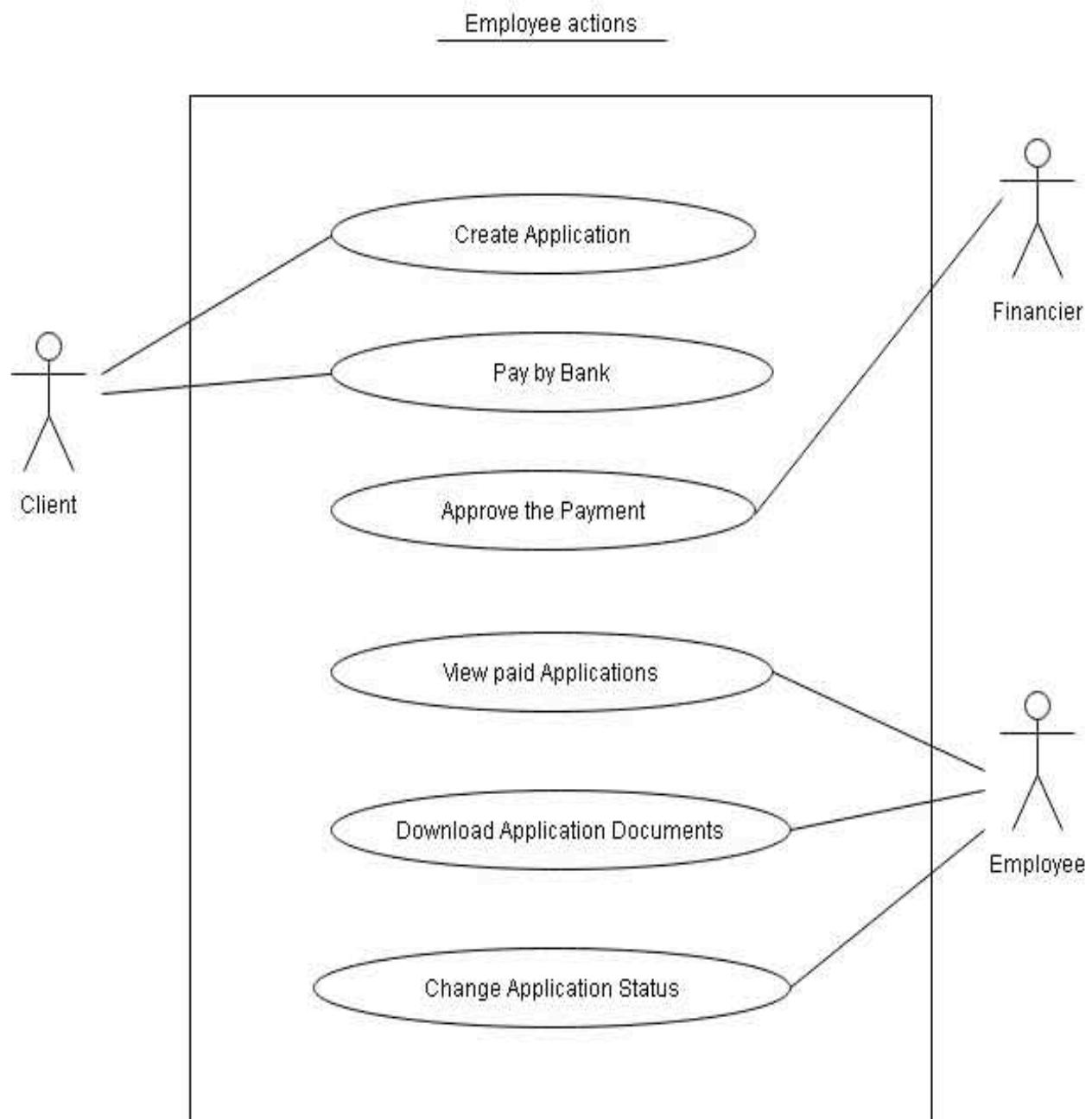
Client Question / Complain





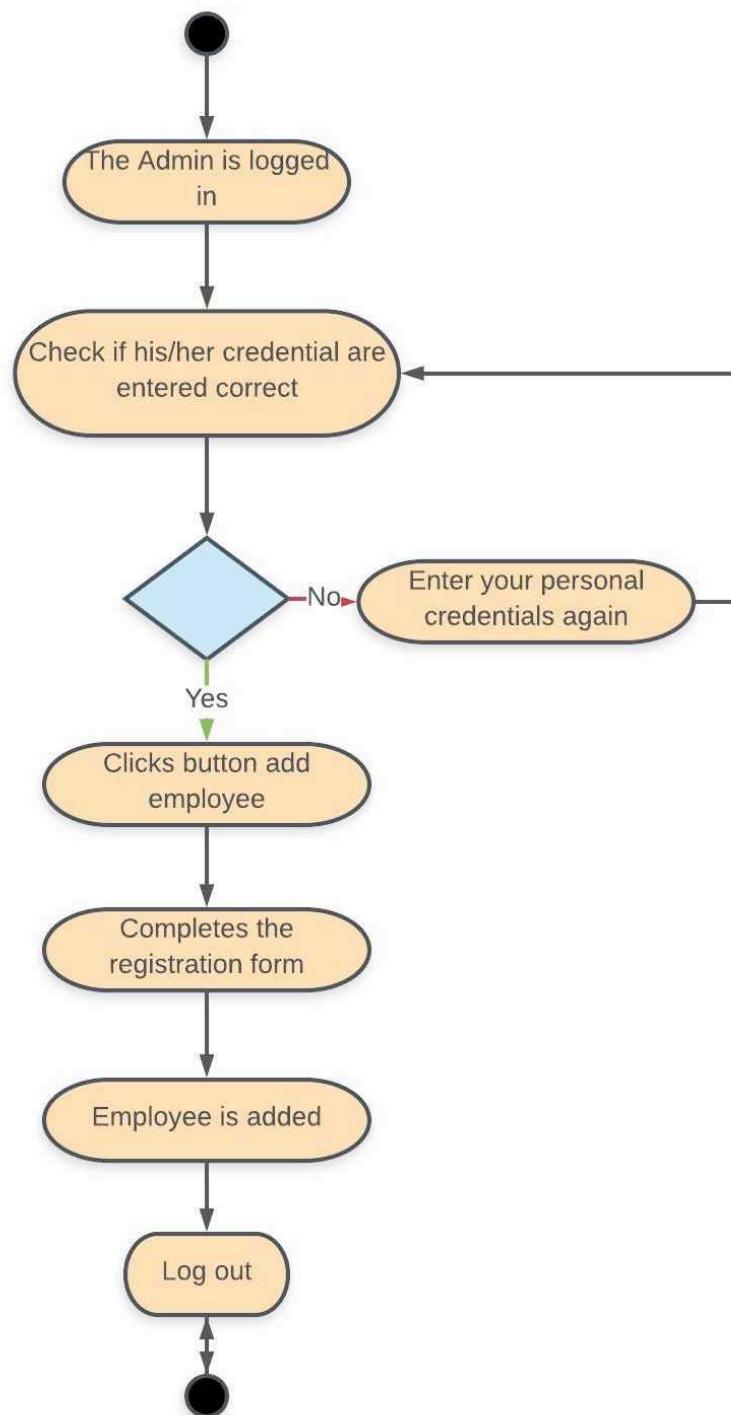




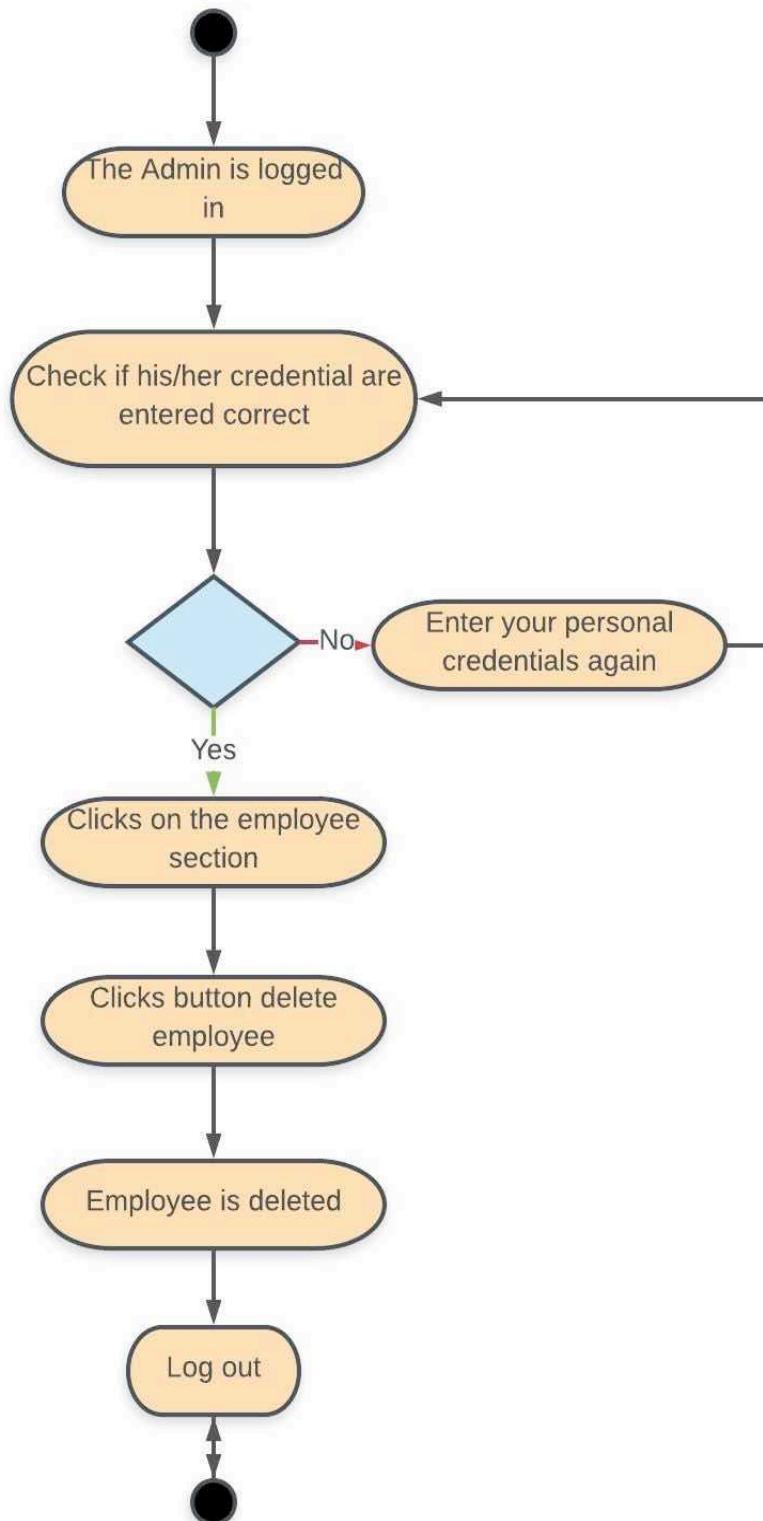


4.4 Activity/SwimLane Diagram

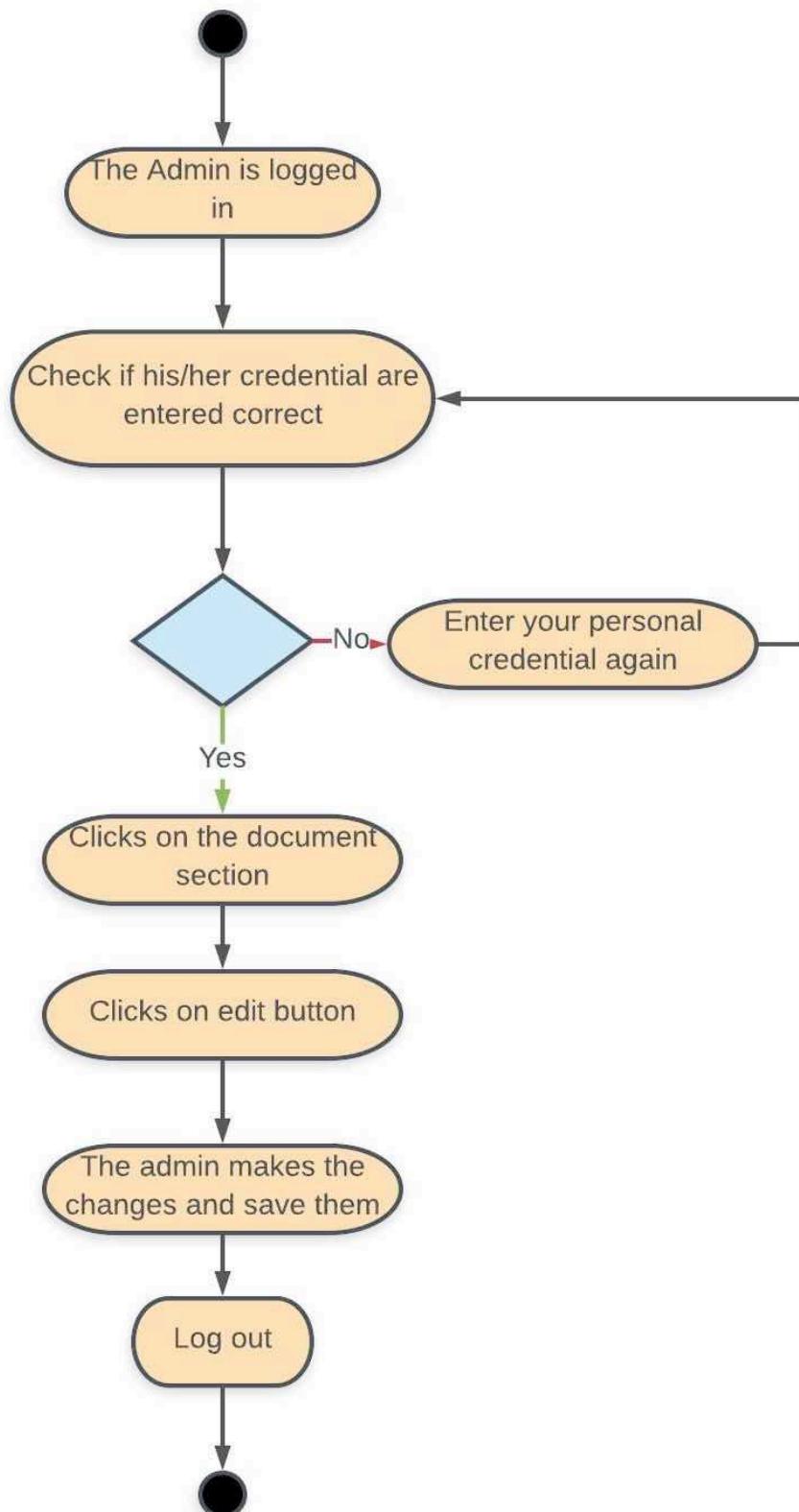
Admin add employee



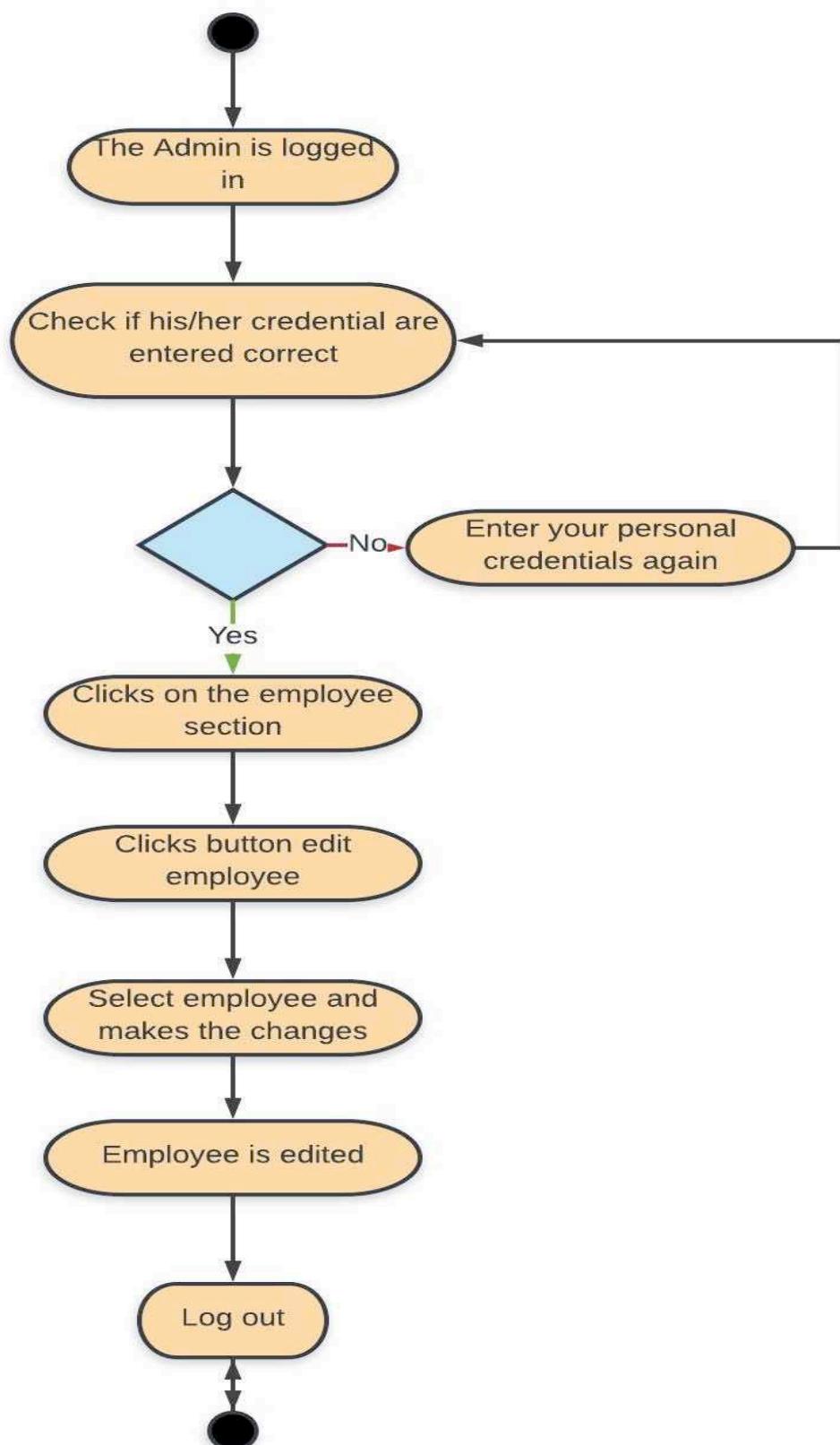
Admin delete employee



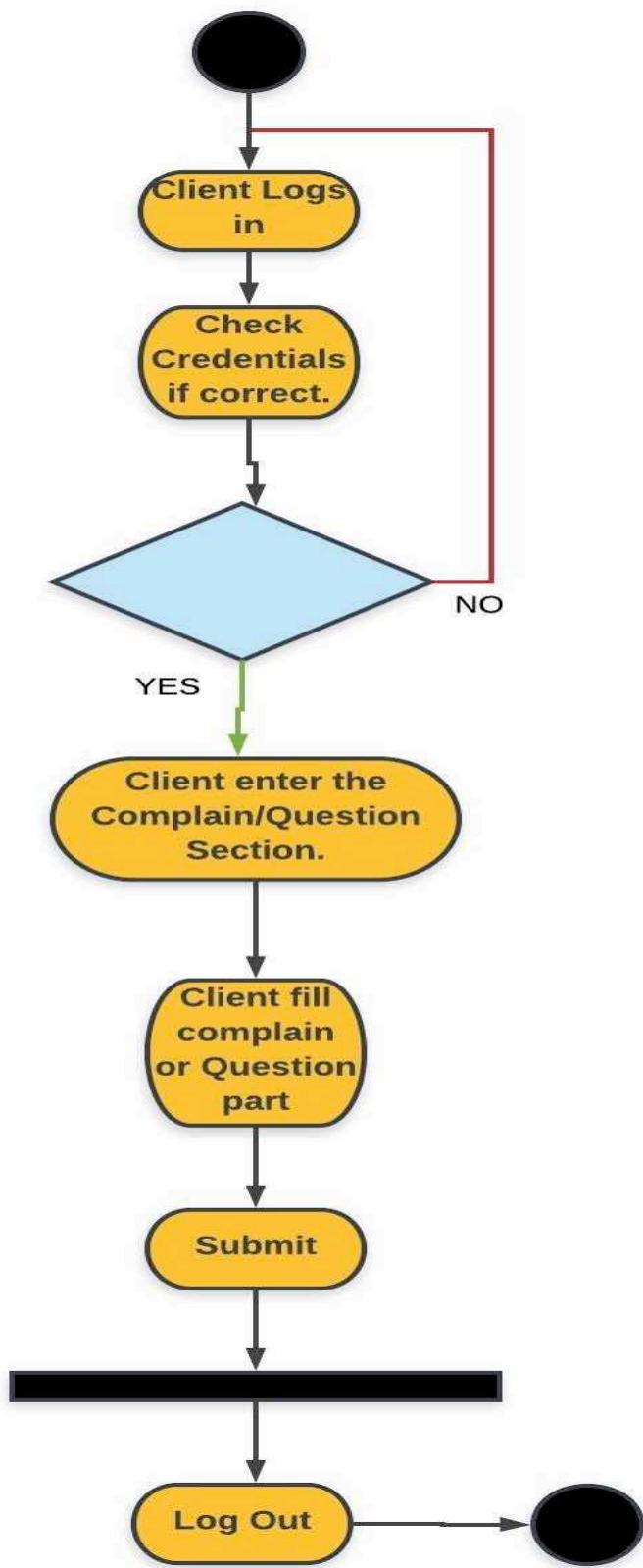
Admin edit document



Admin edit employee

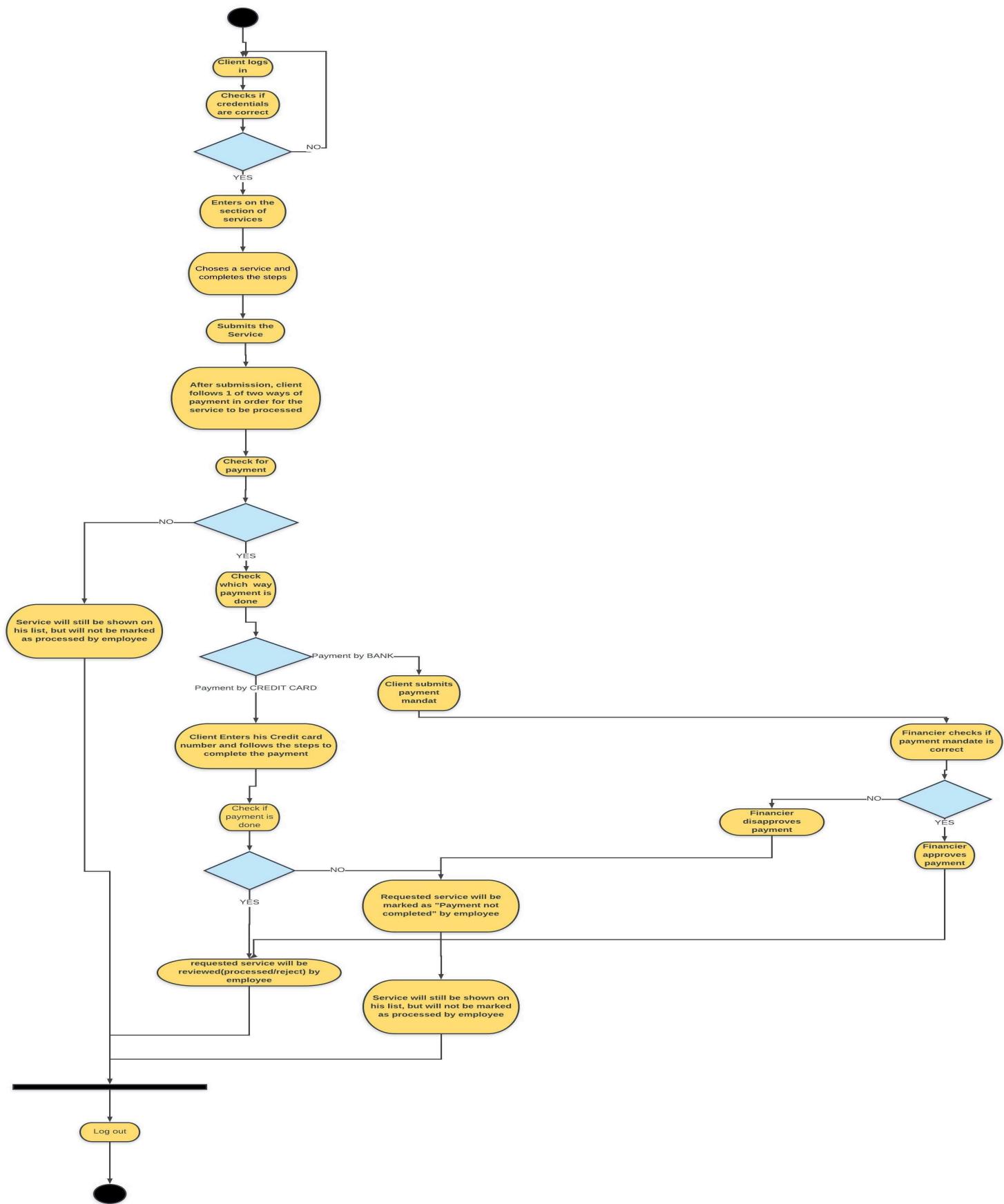


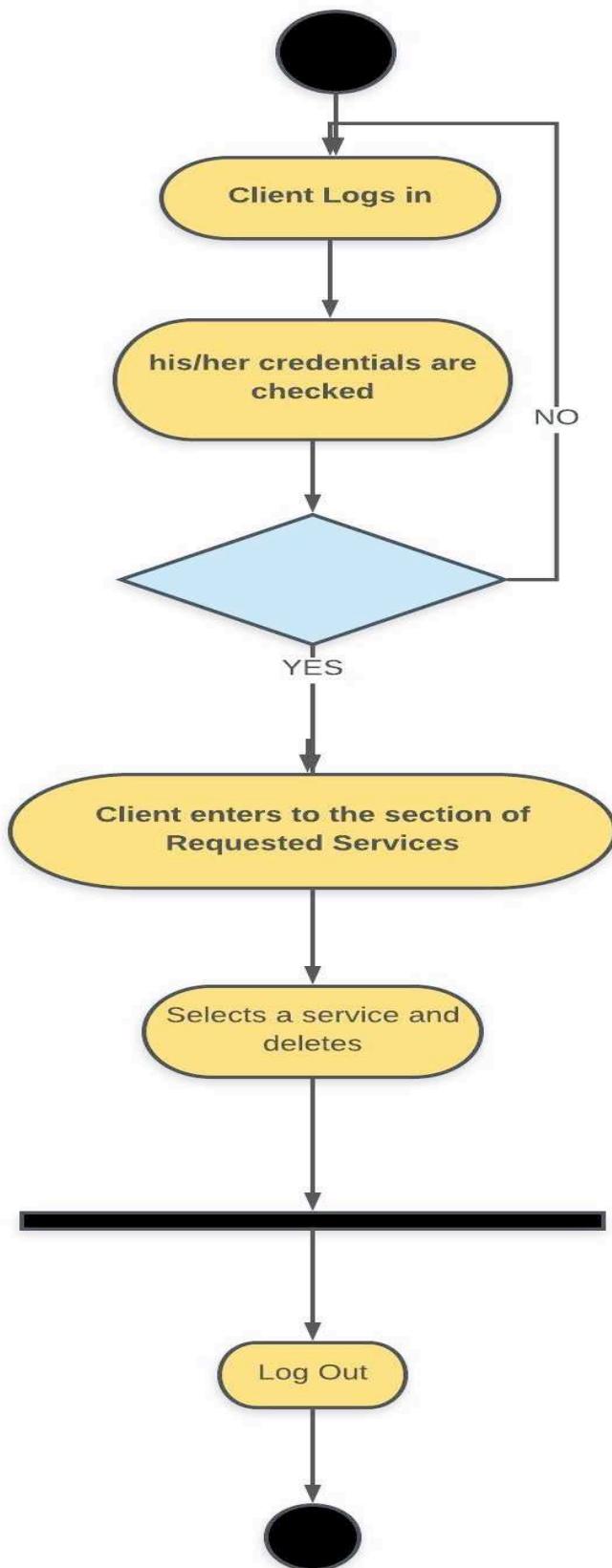
Client Complain / Question



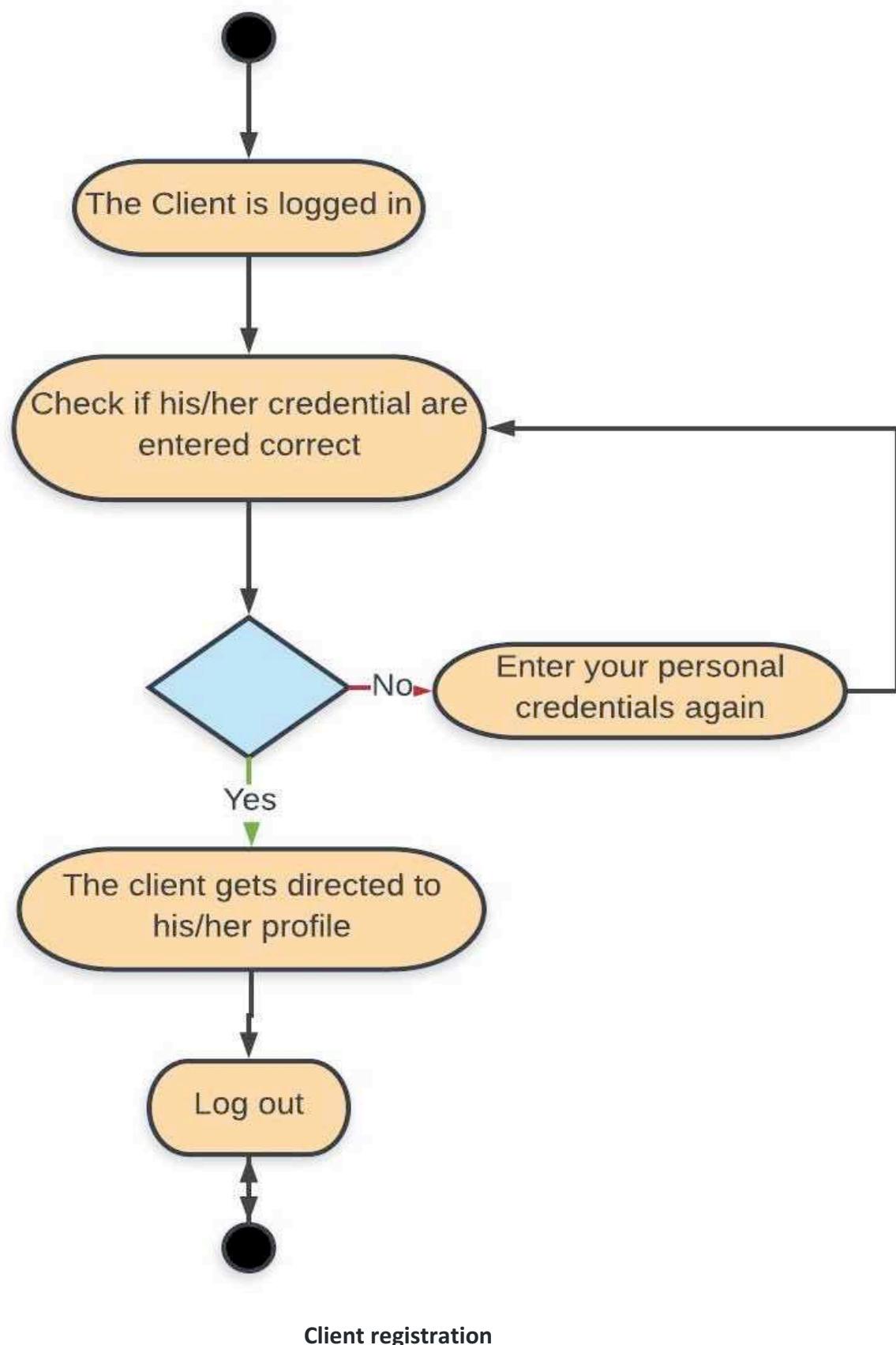
Client choose service

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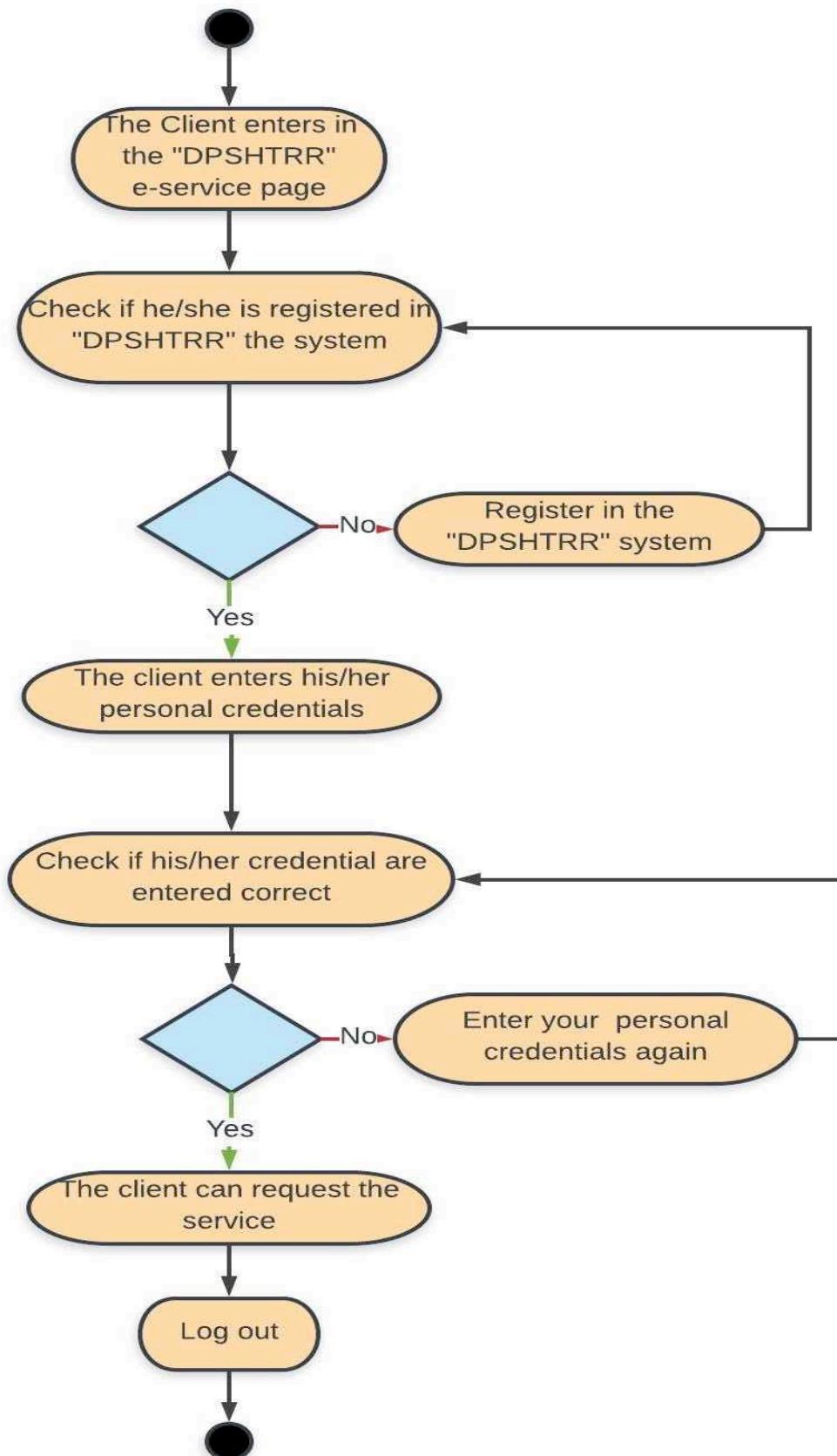




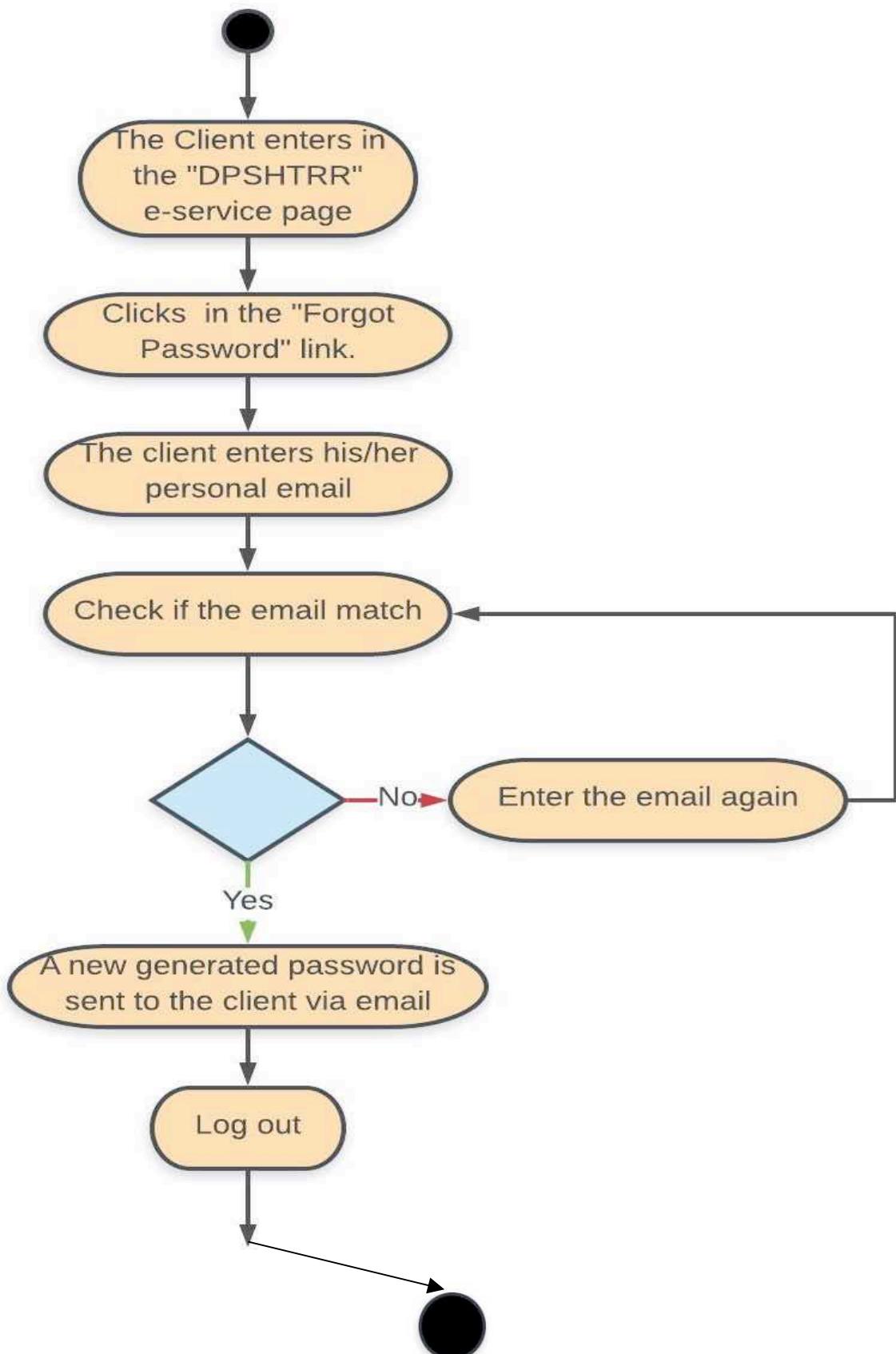
Client log in



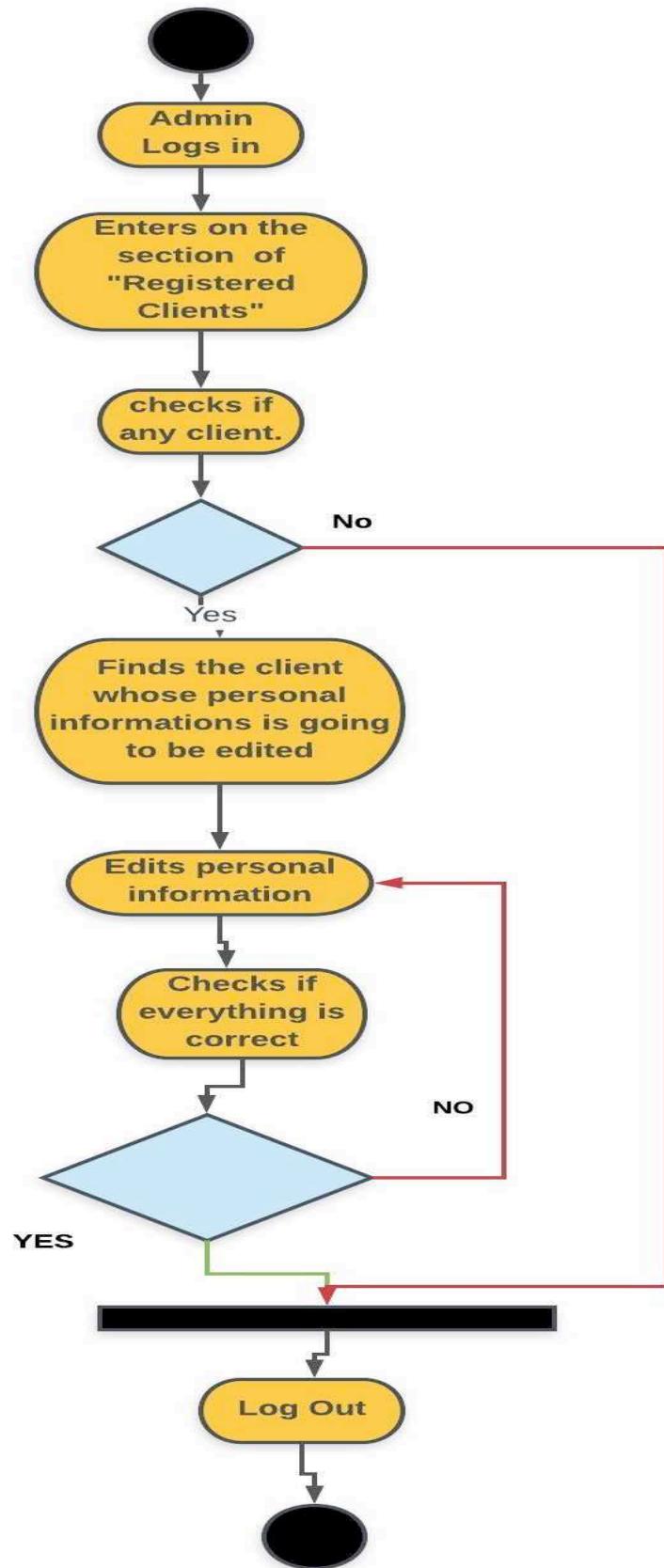
Client registration

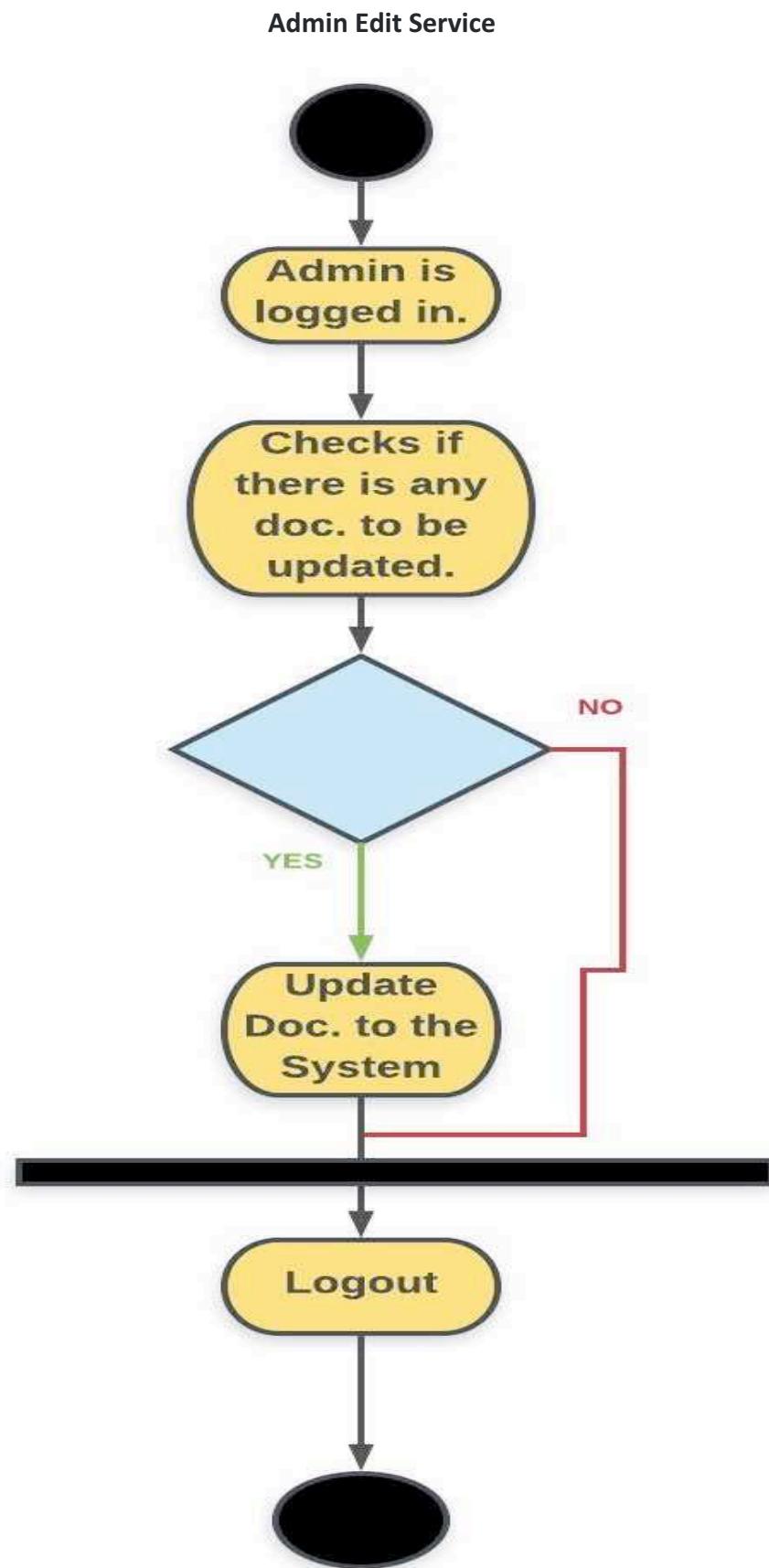


Client reset password

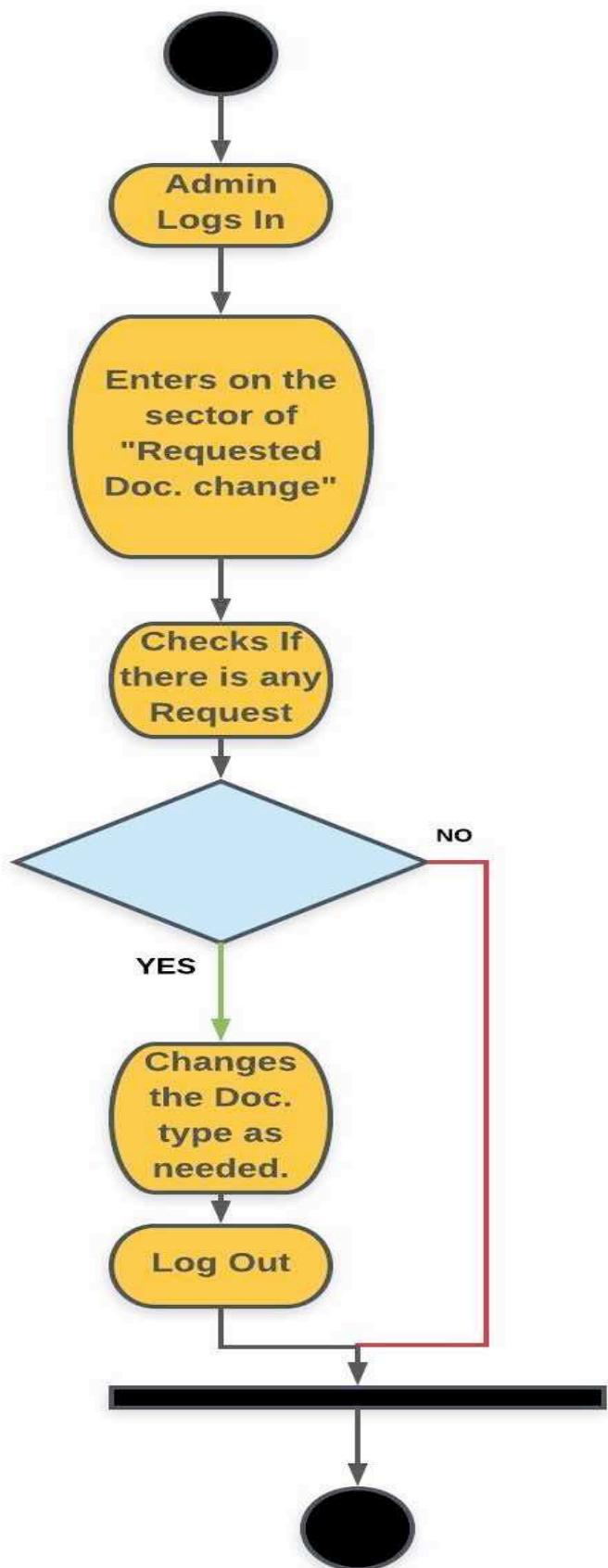


Admin Edit Client

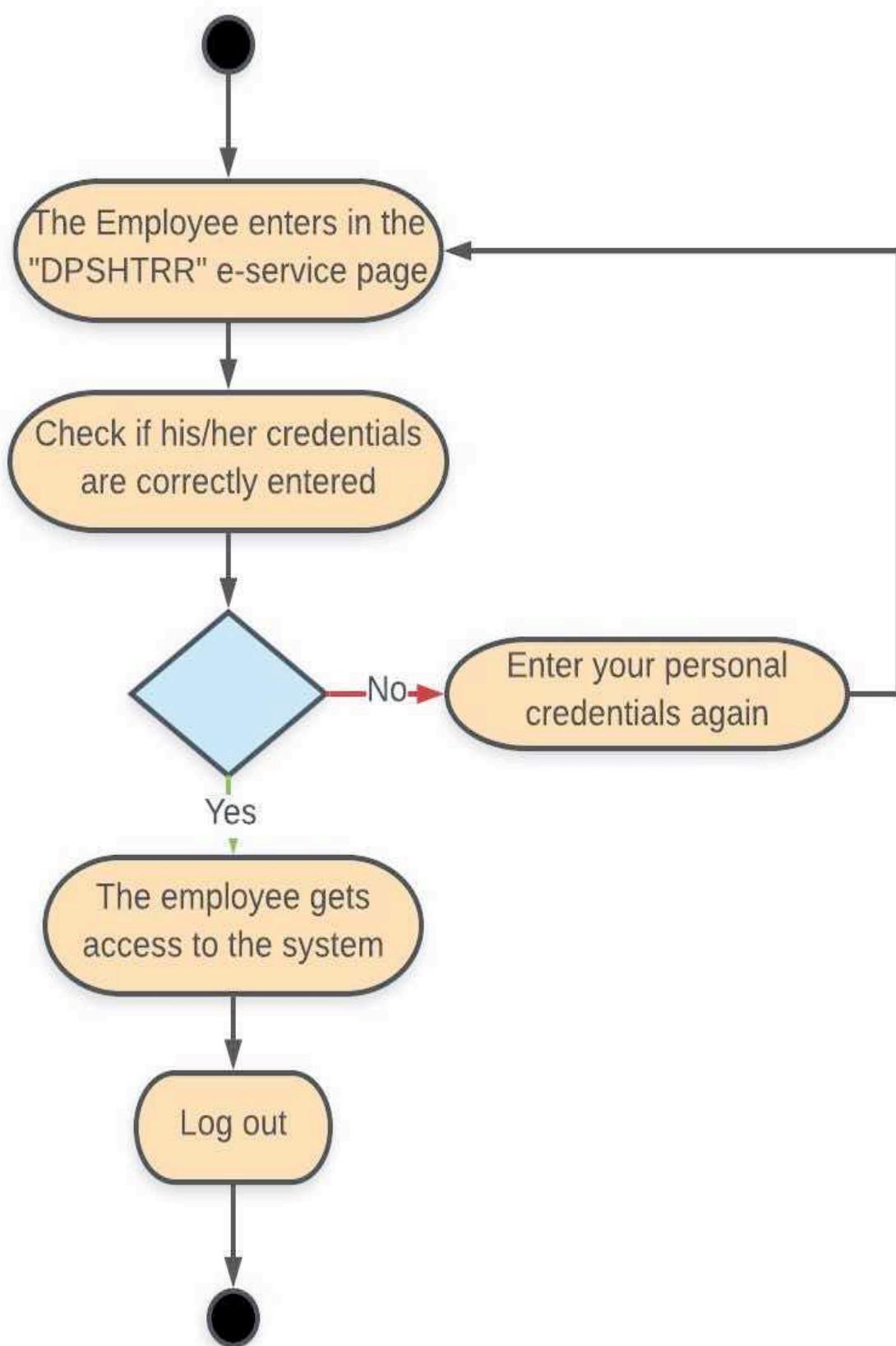


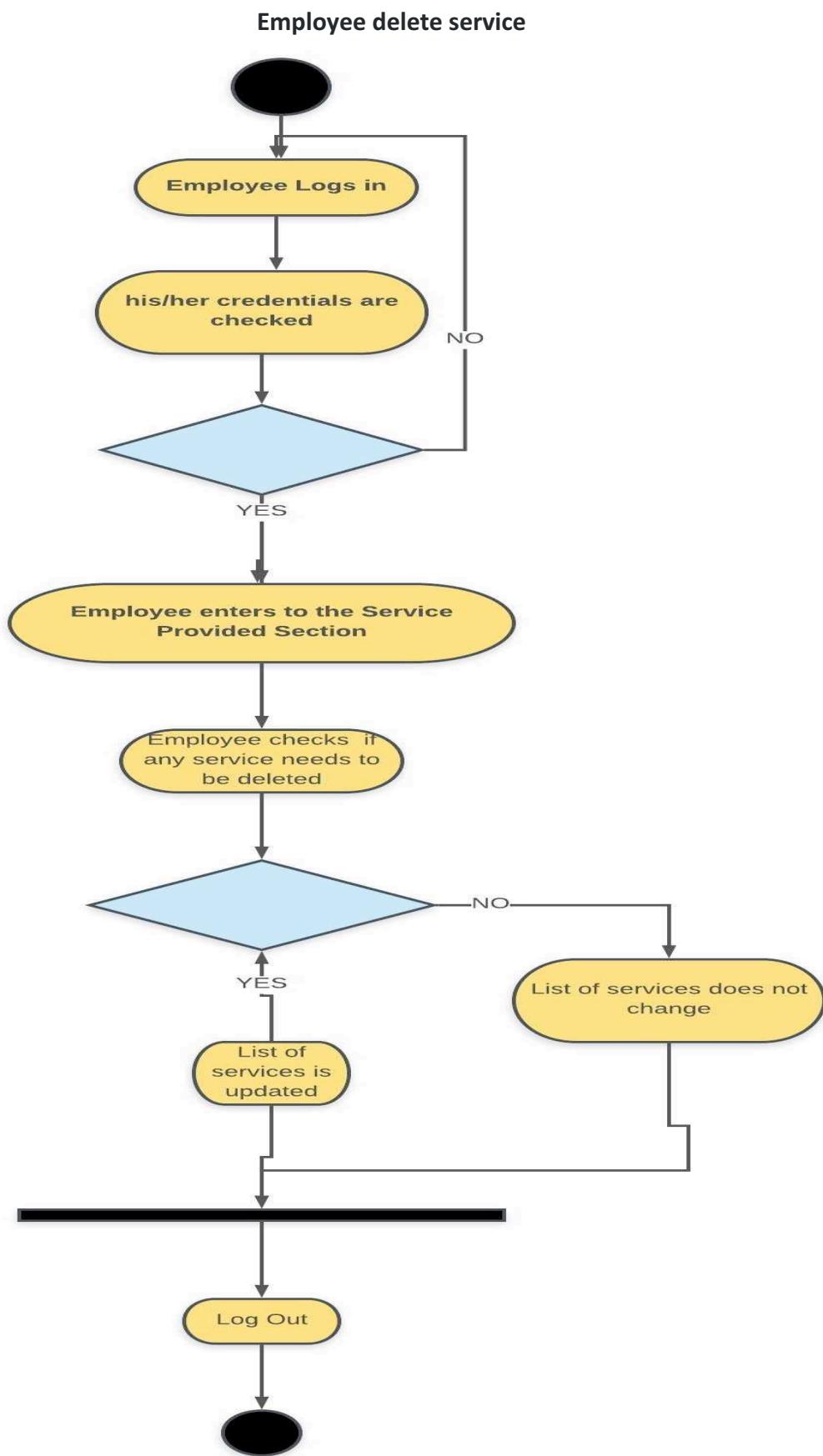


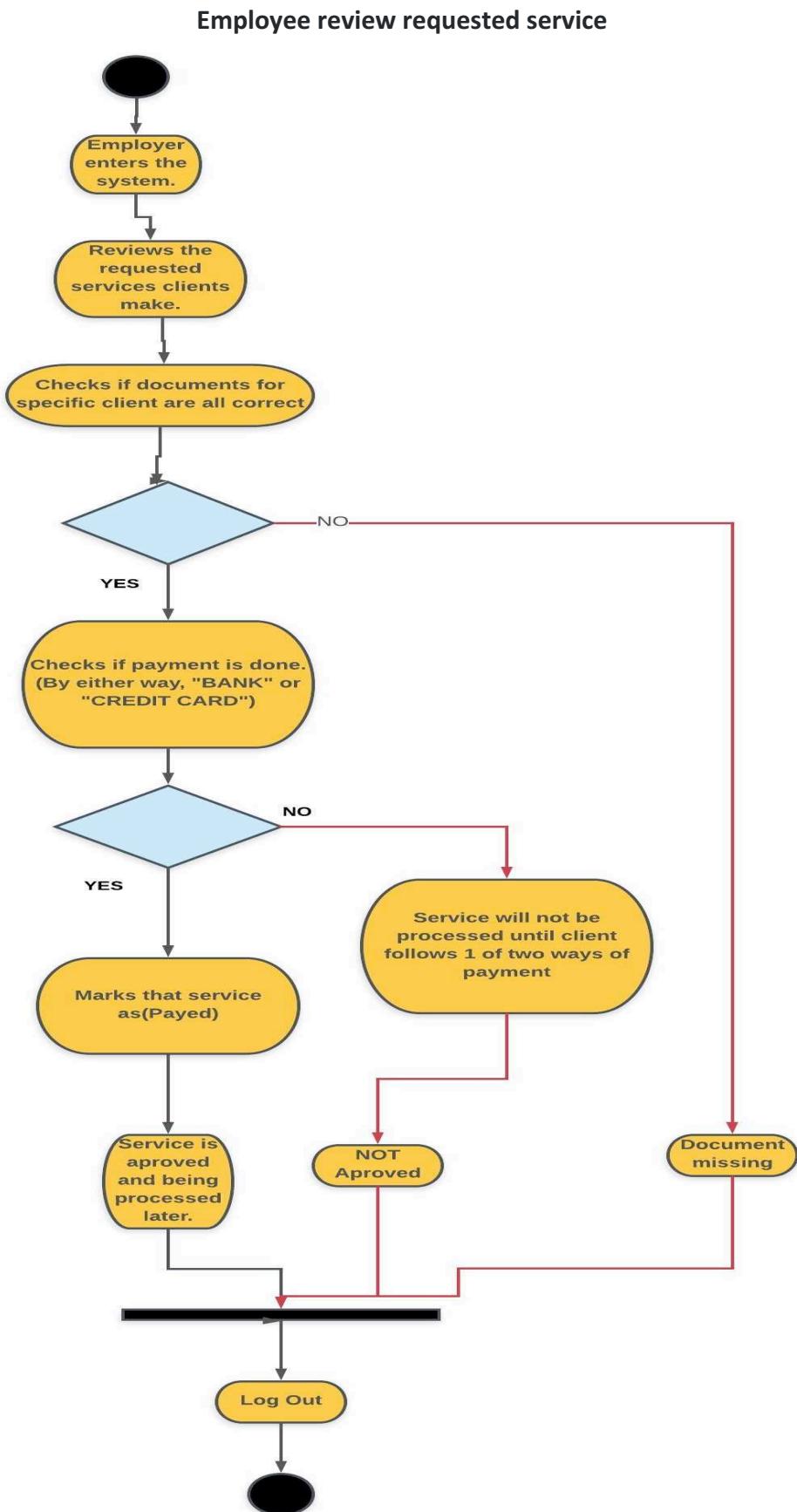
Admin Edit document type



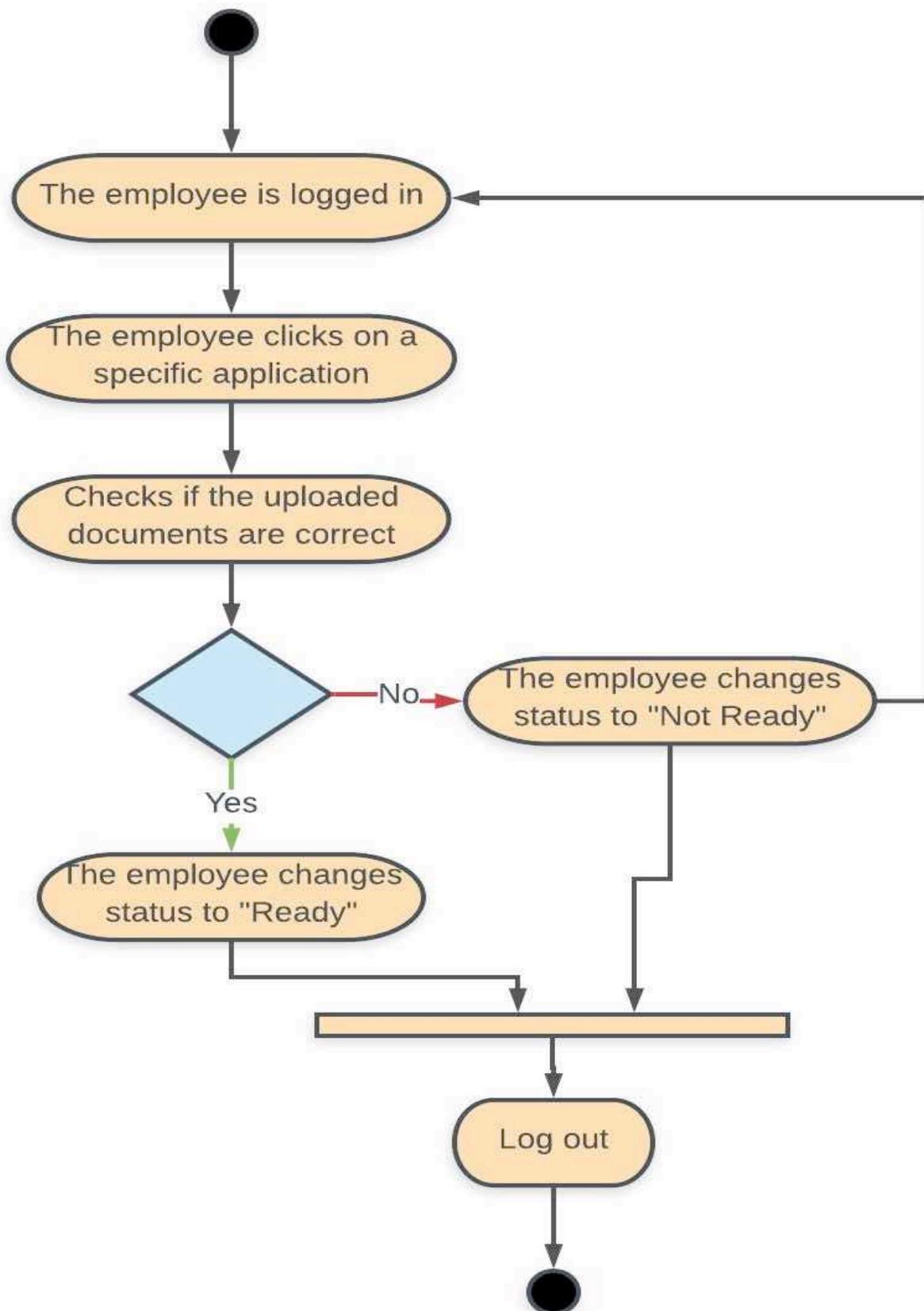
Employee Log in



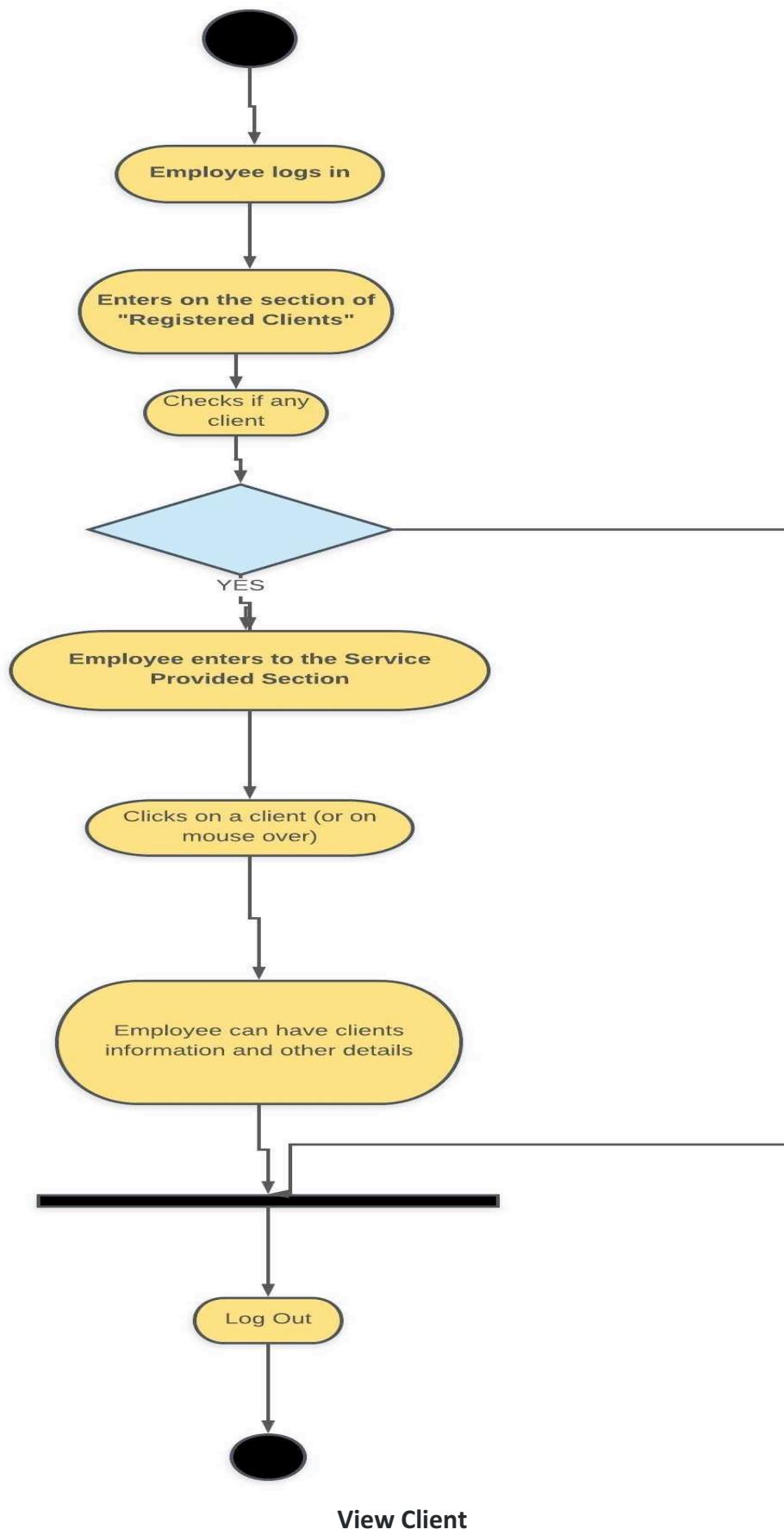


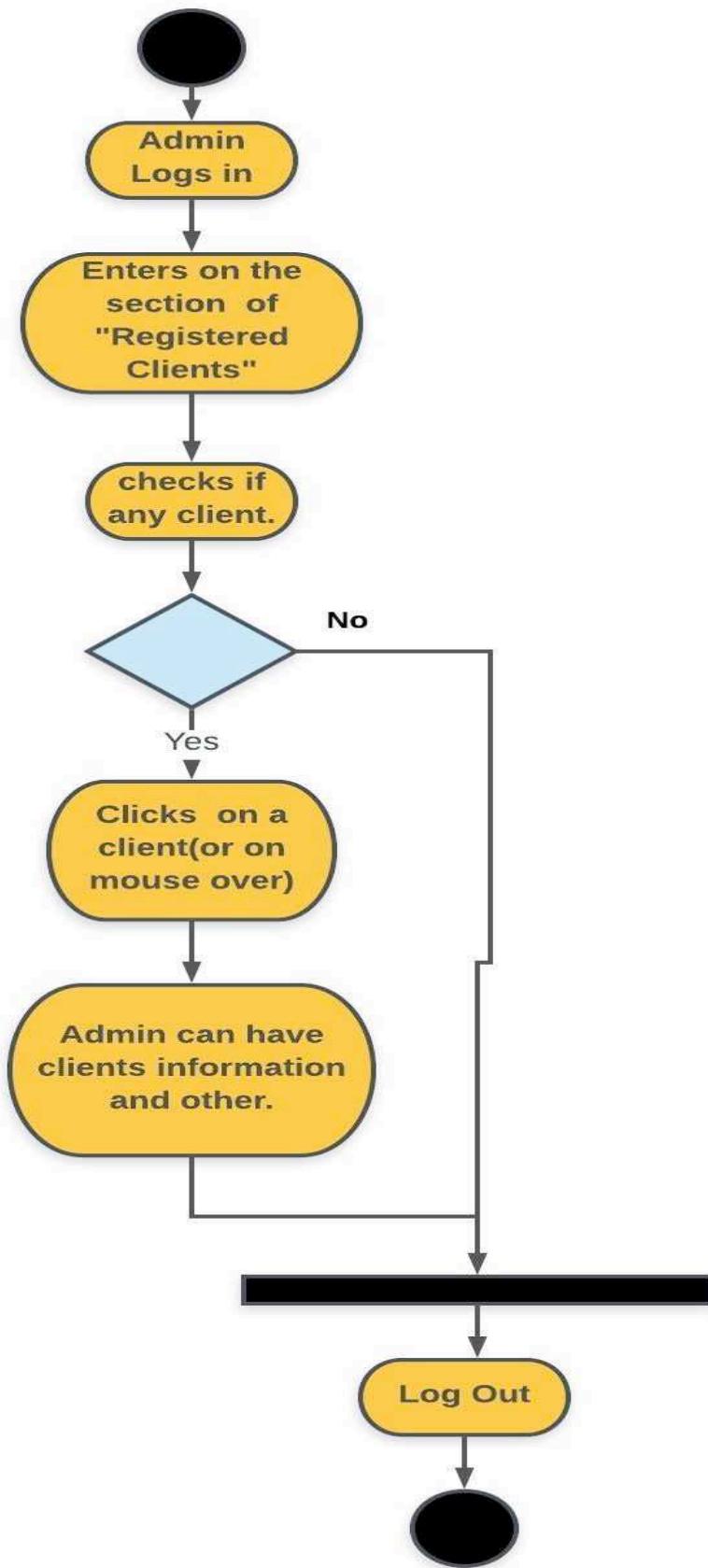


Employee view application



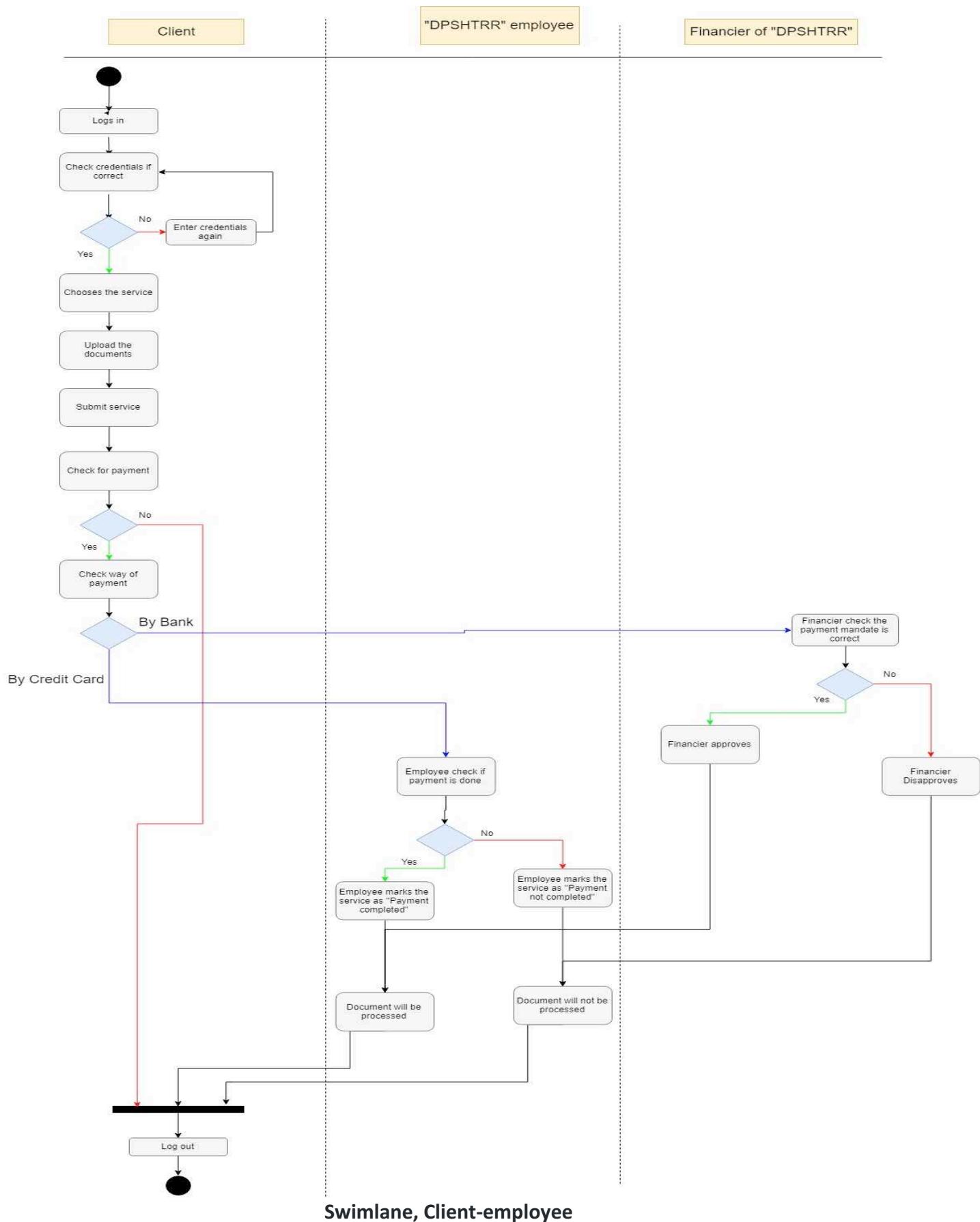
Employee view client



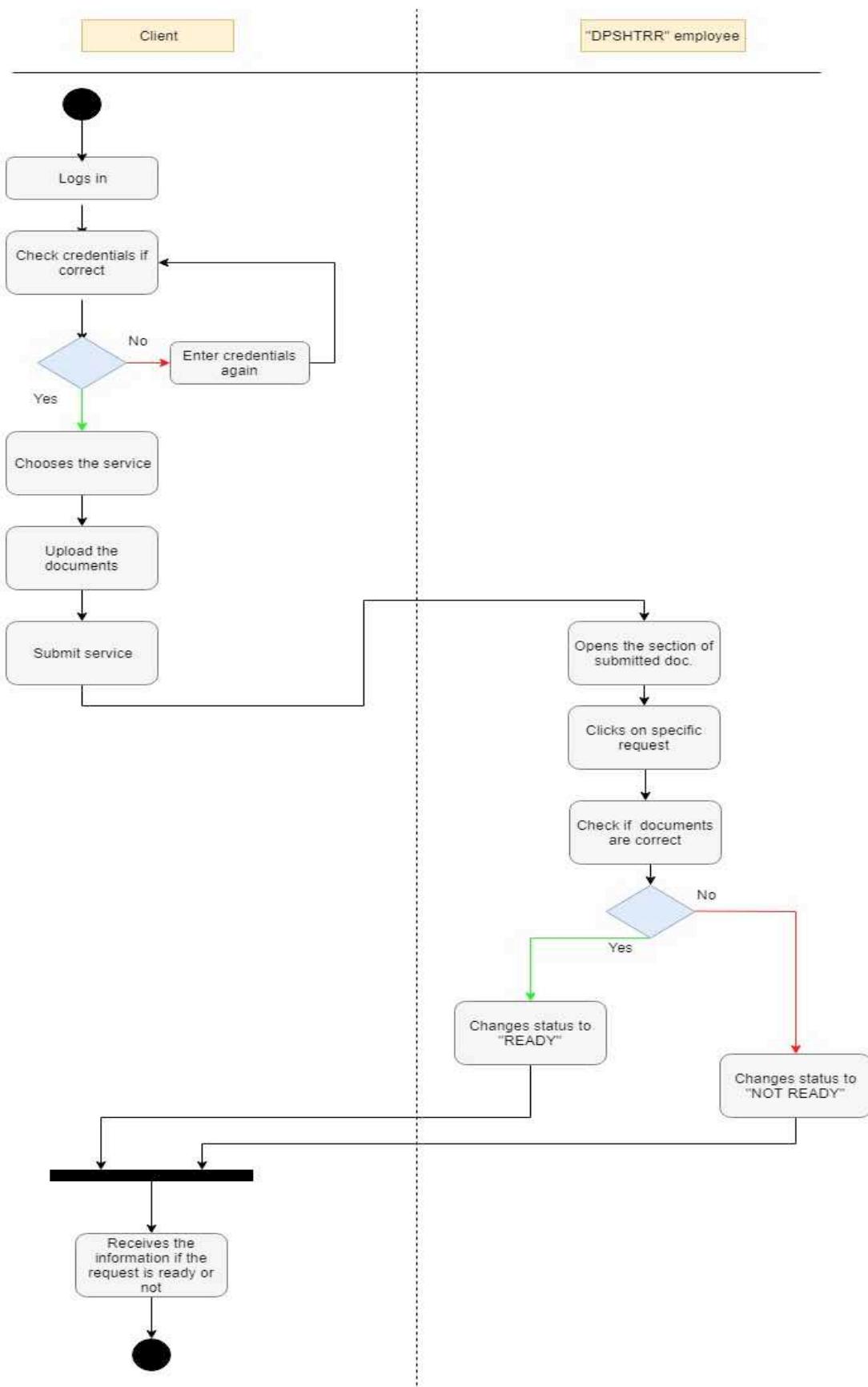


Swimlane, Client-employee-Financier

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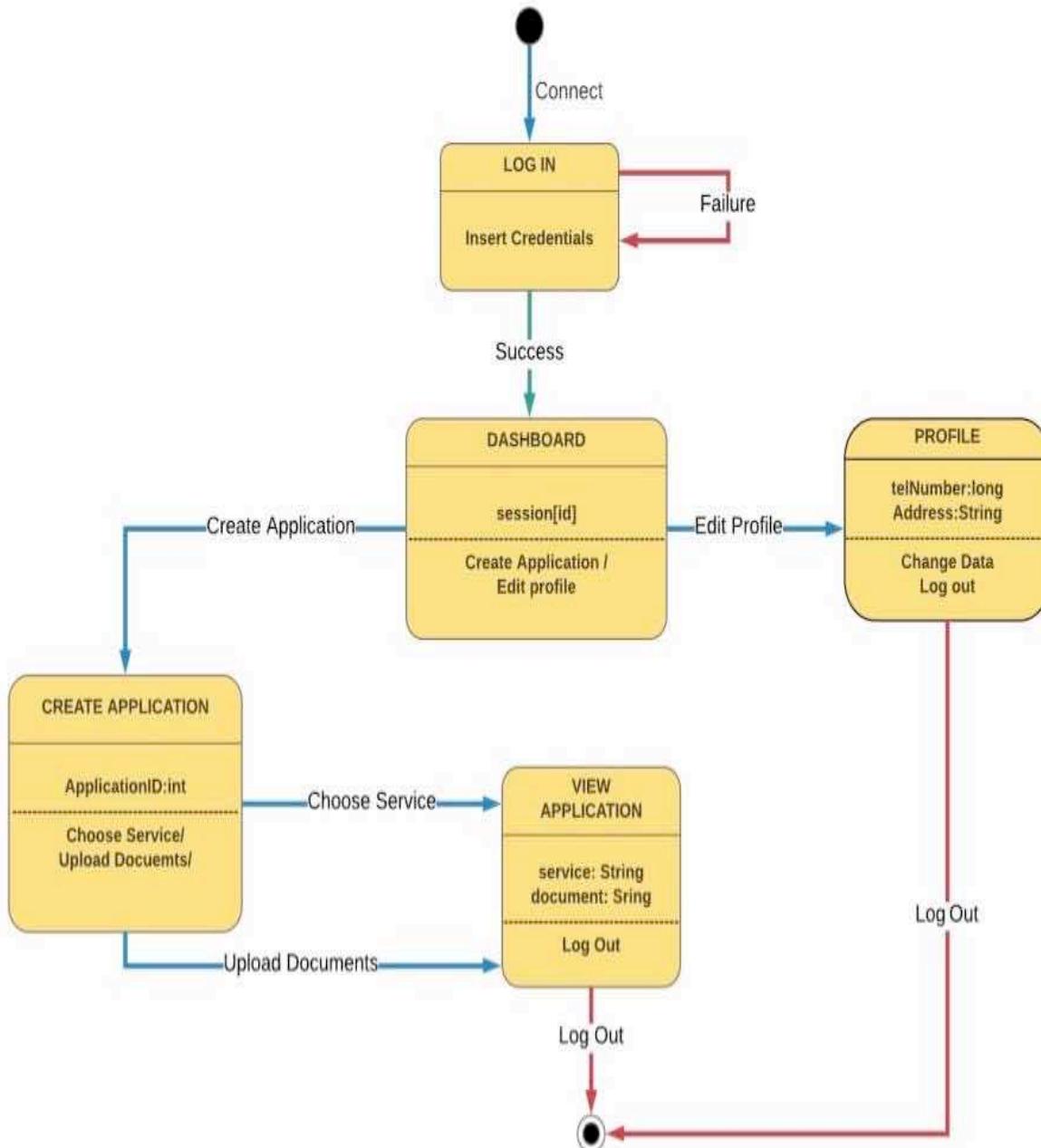


DPSHTRR E-Service – Product Documentation

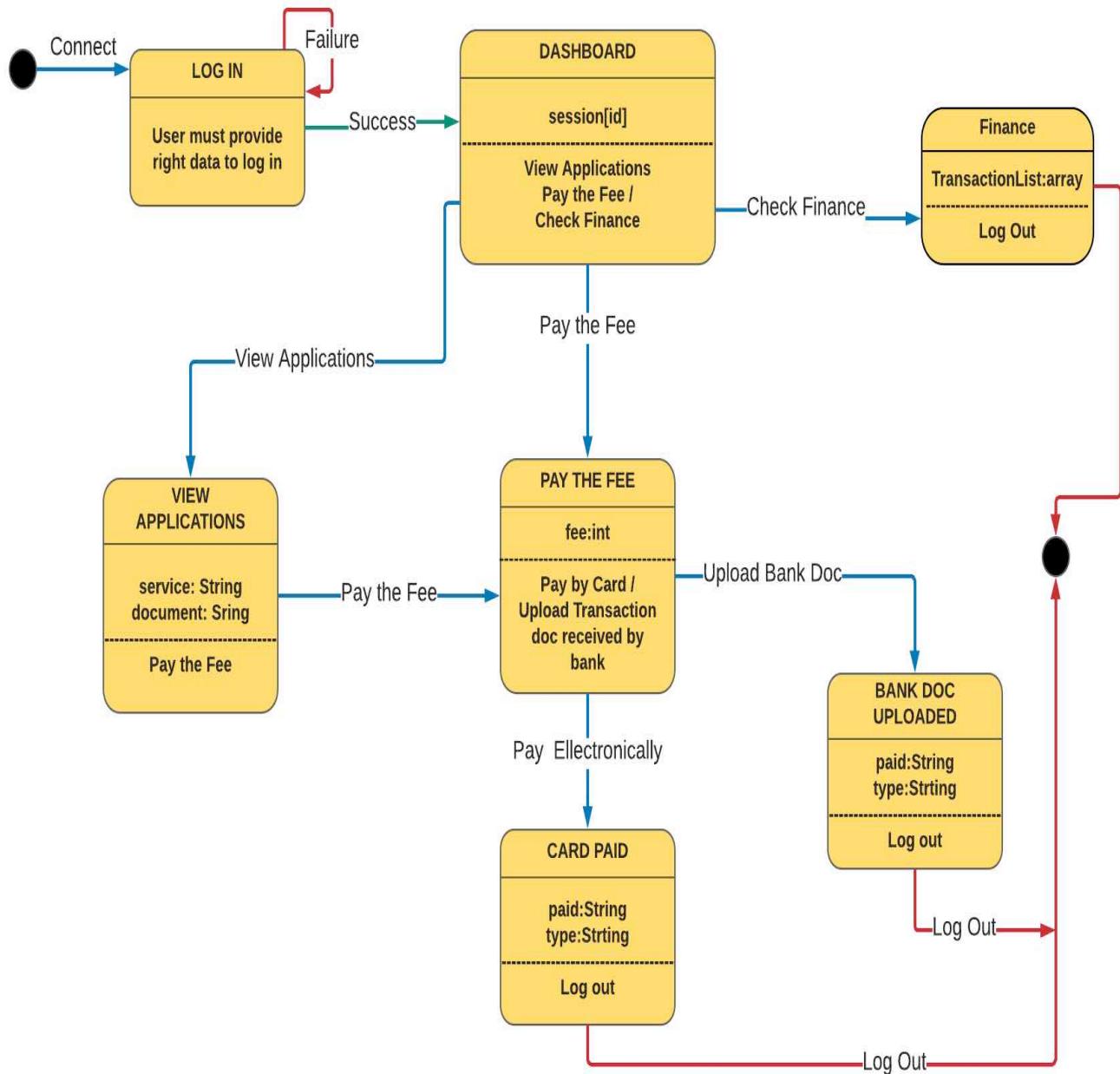


4.5 State Chart Diagram

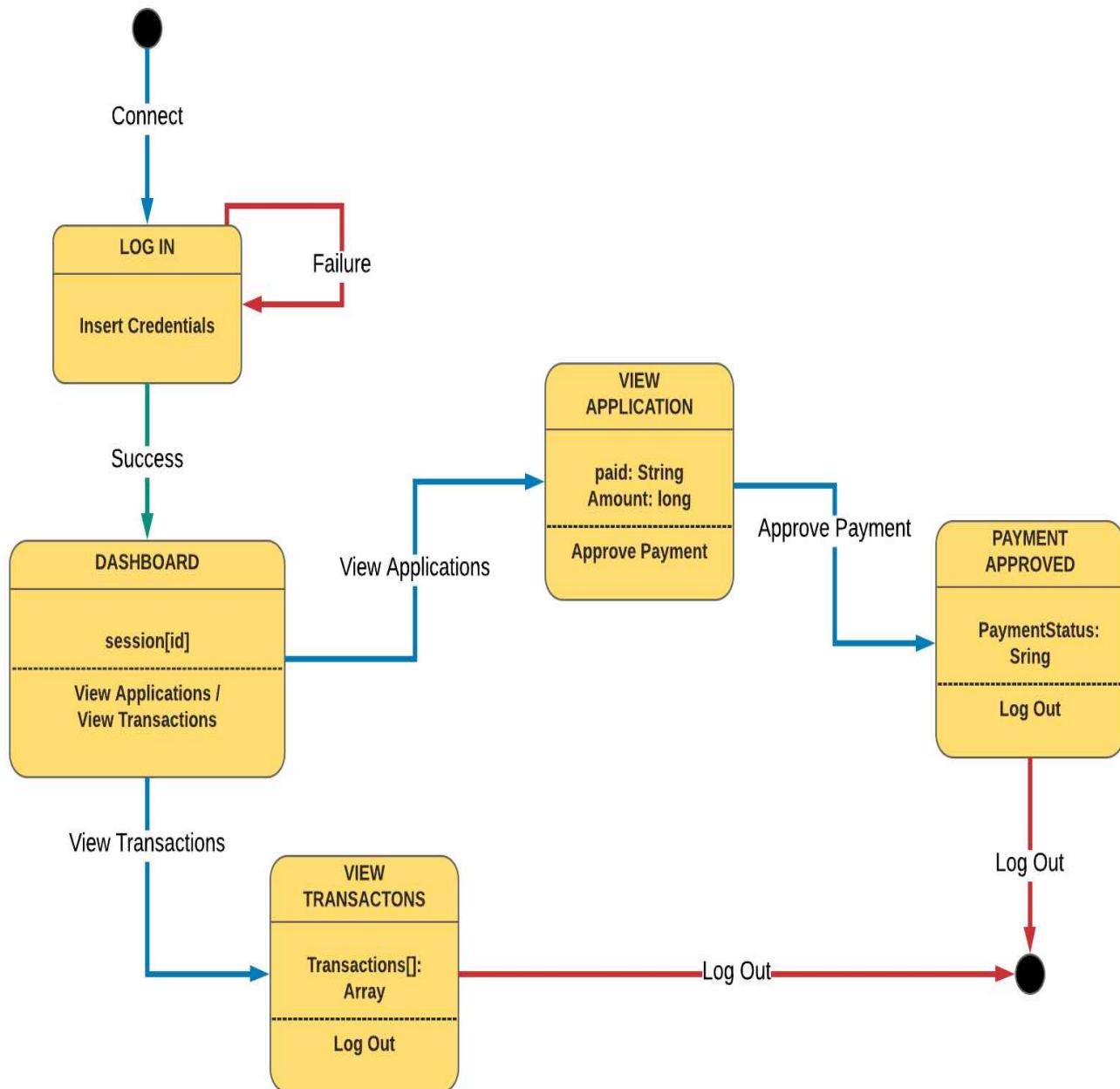
CLIENT CREATE APPLICATION



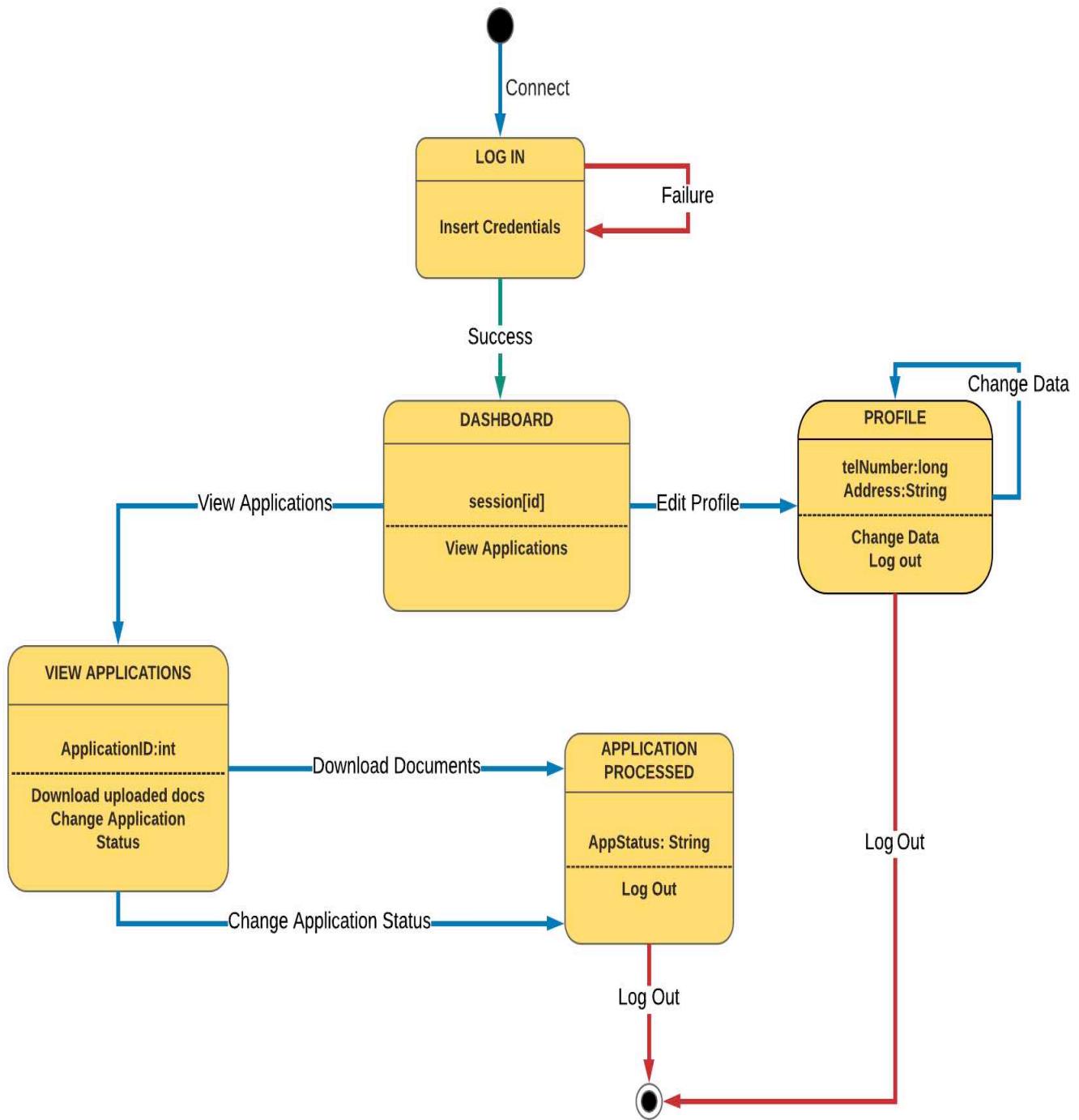
CLIENT PAY APPLICATION



FINANCIER APPROVE PAYMENT

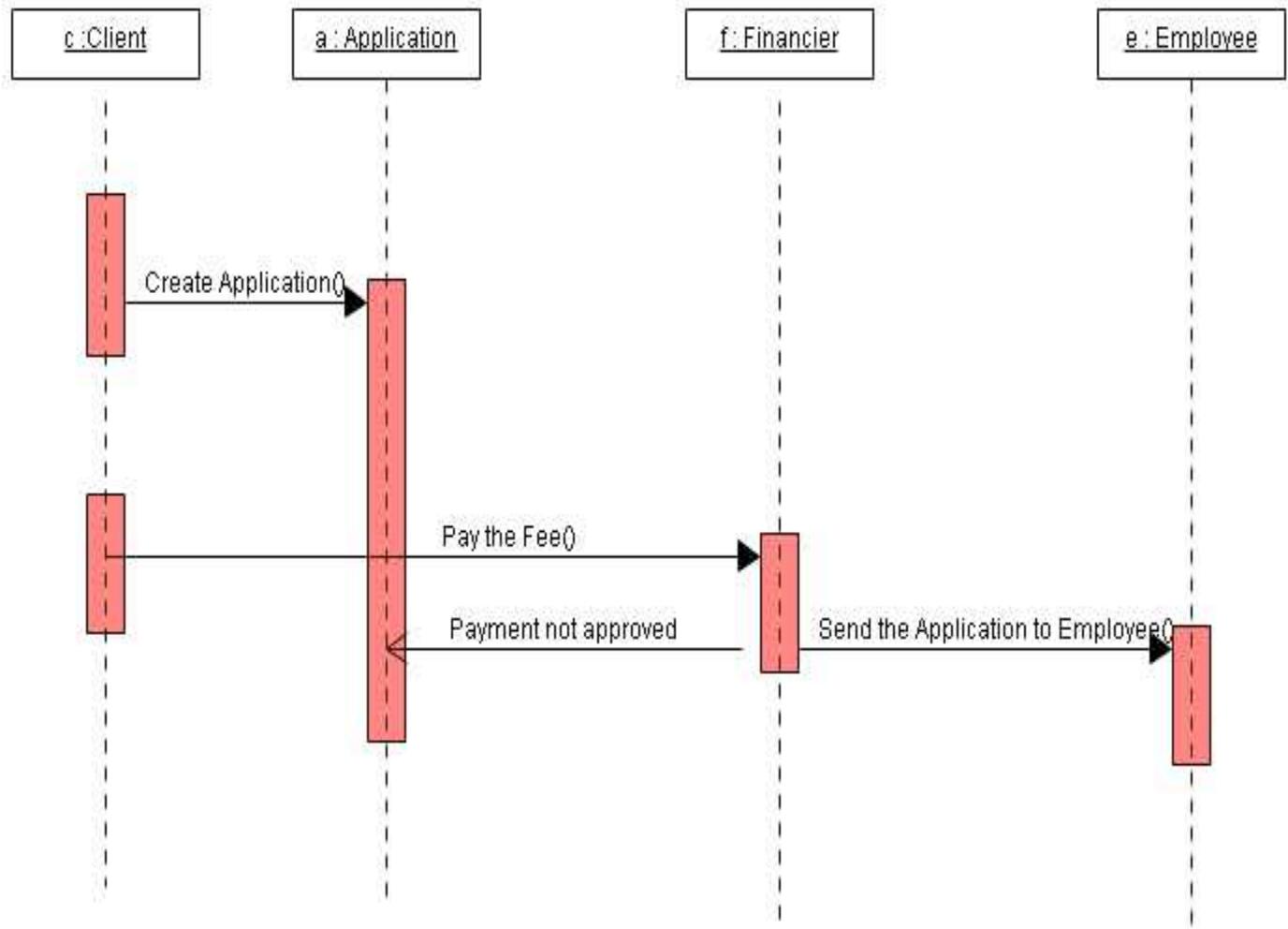


EMPLOYEE PROCESS APPLICATION

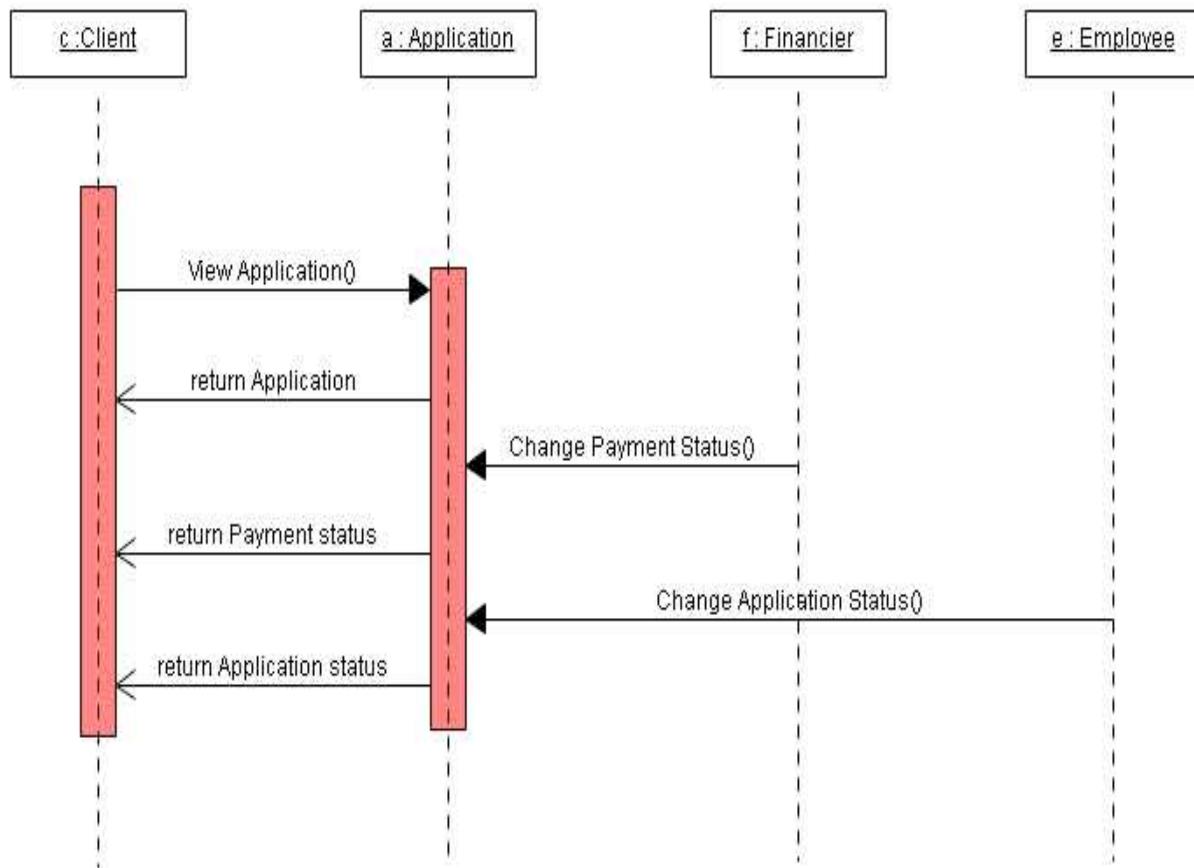


4.6 Sequence Diagram

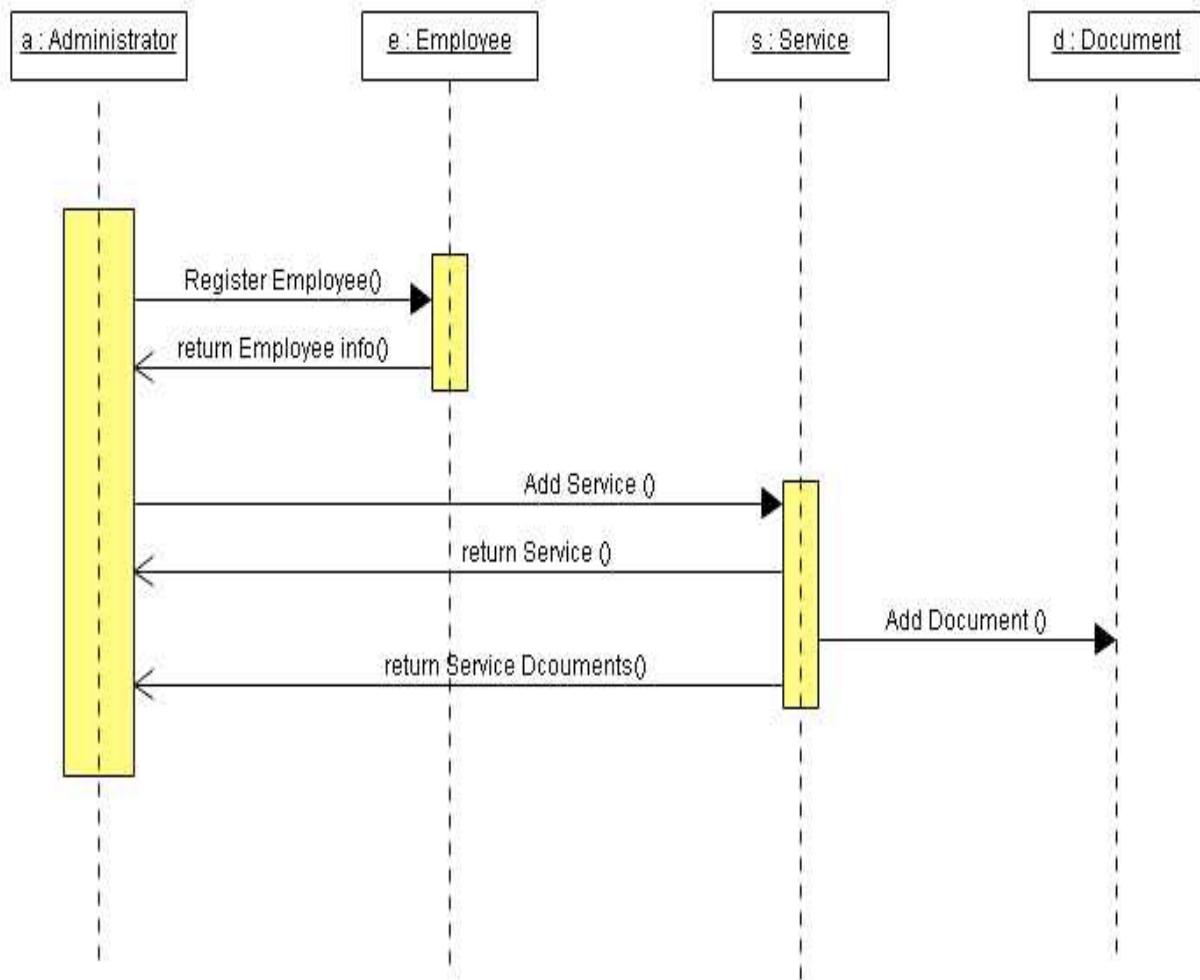
Client - Application



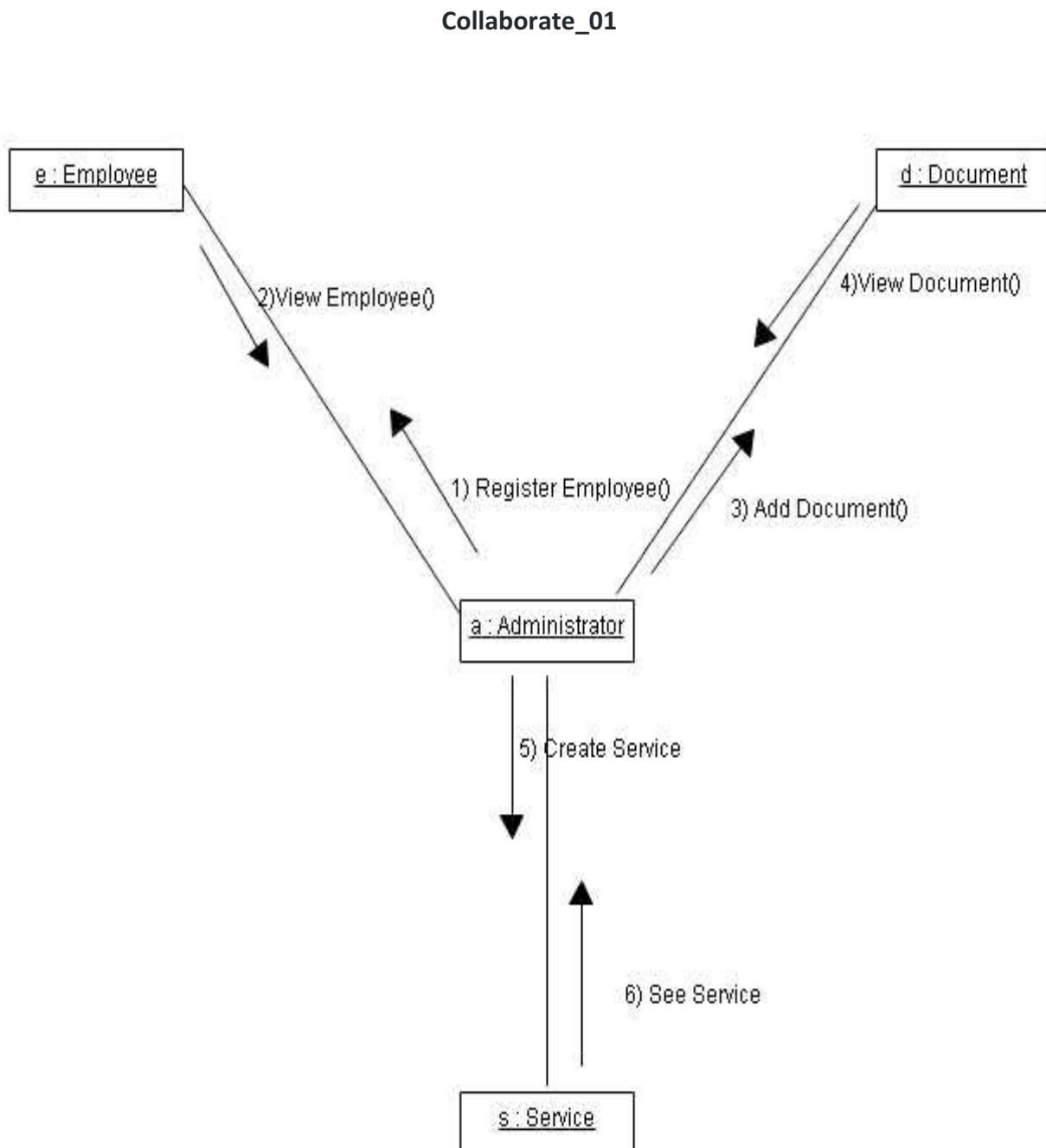
Process - Application



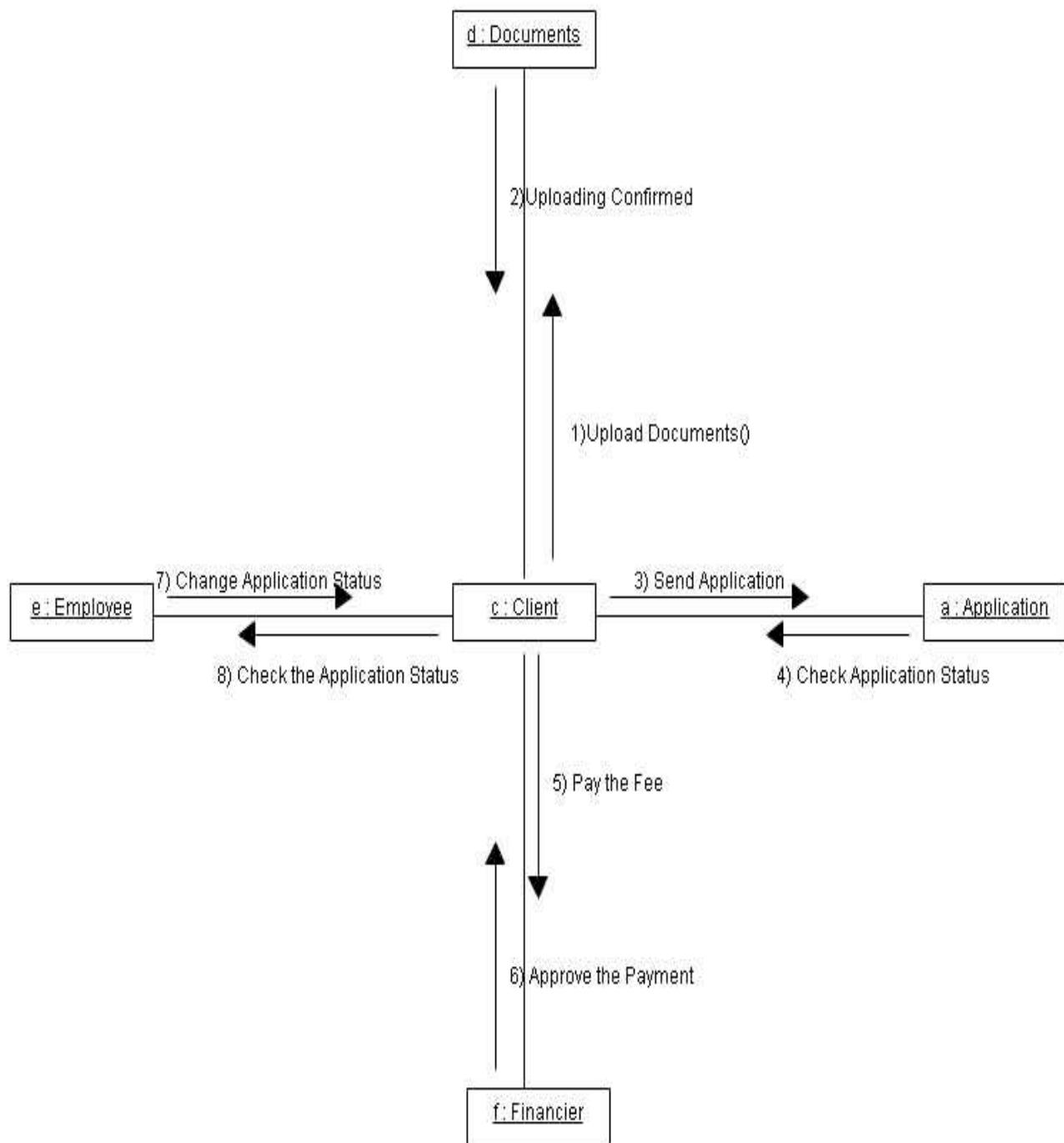
Admin – Service



4.7 Collaboration Diagram

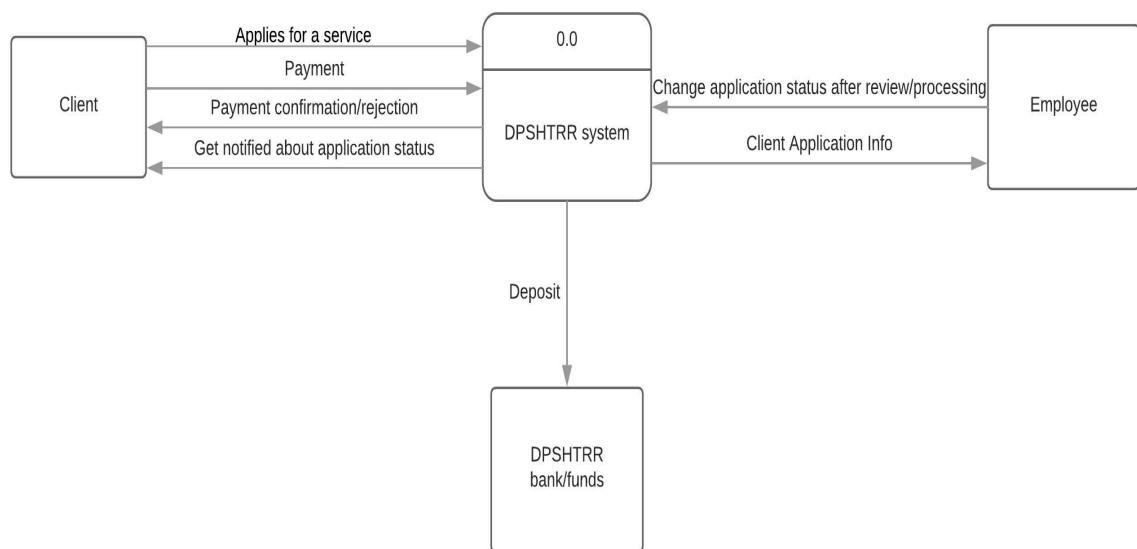


Collaborate_02

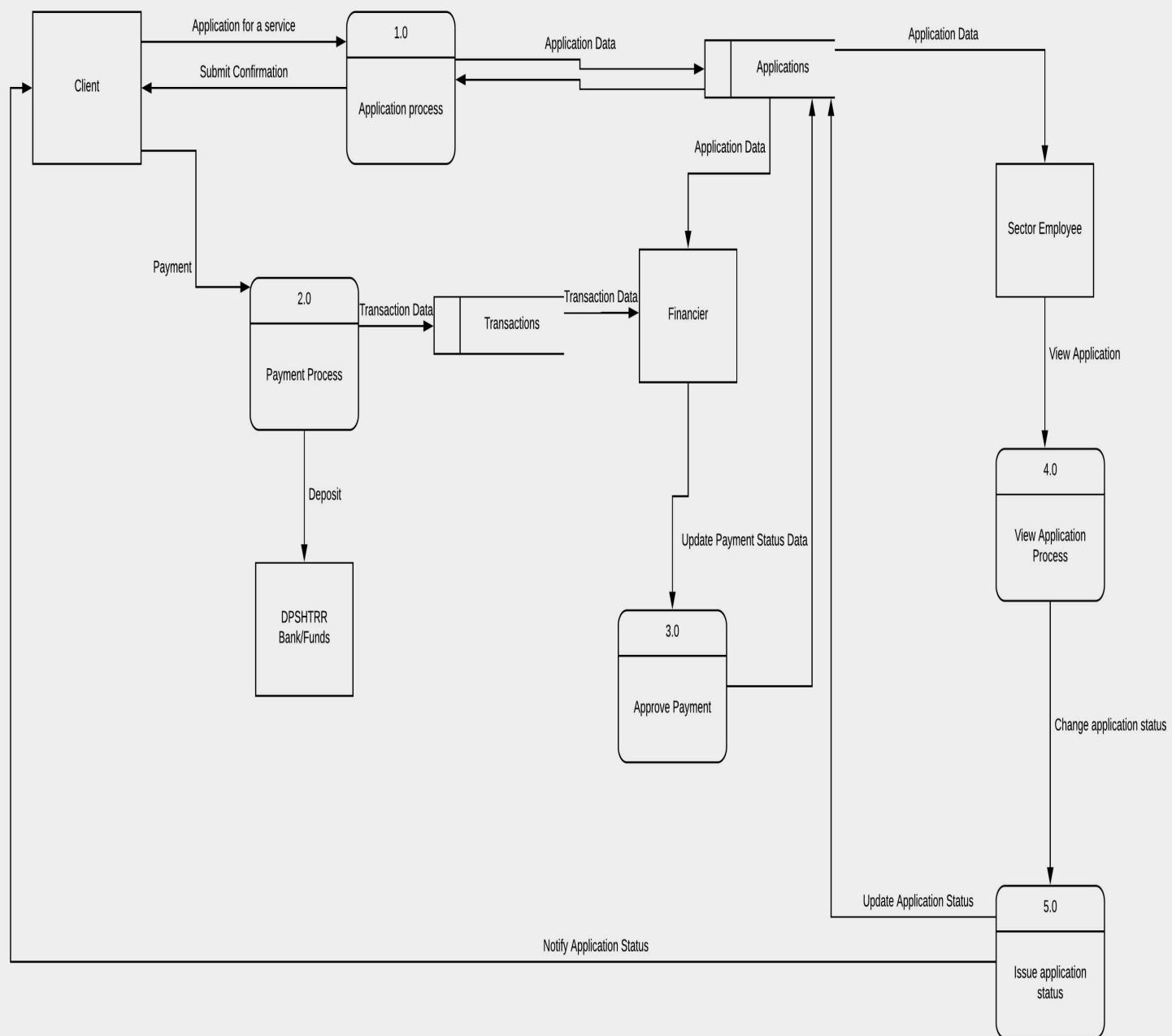


4.8 DataFlow Diagram

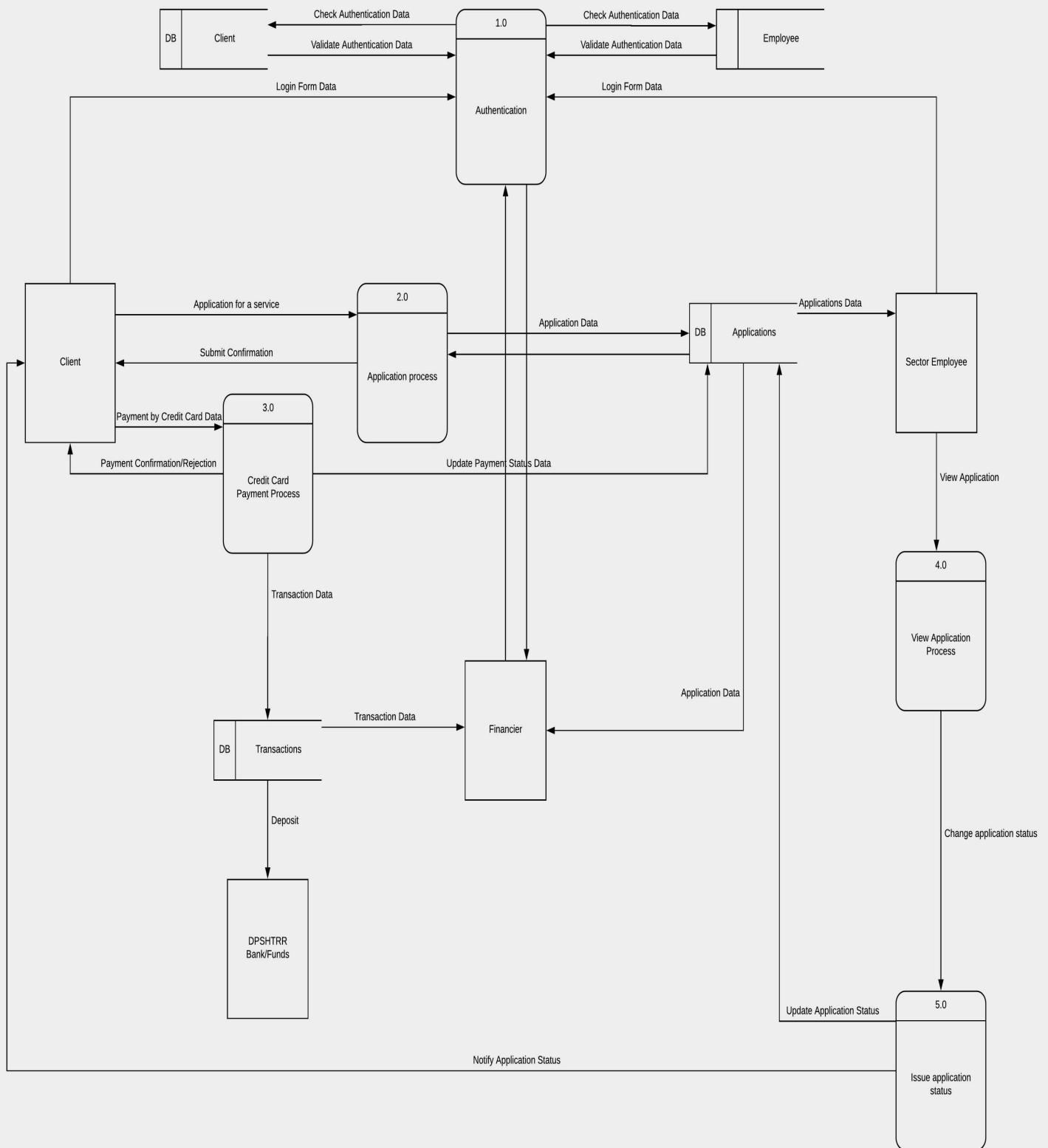
DFD LEVEL 0 (CONTEXT DIAGRAM)



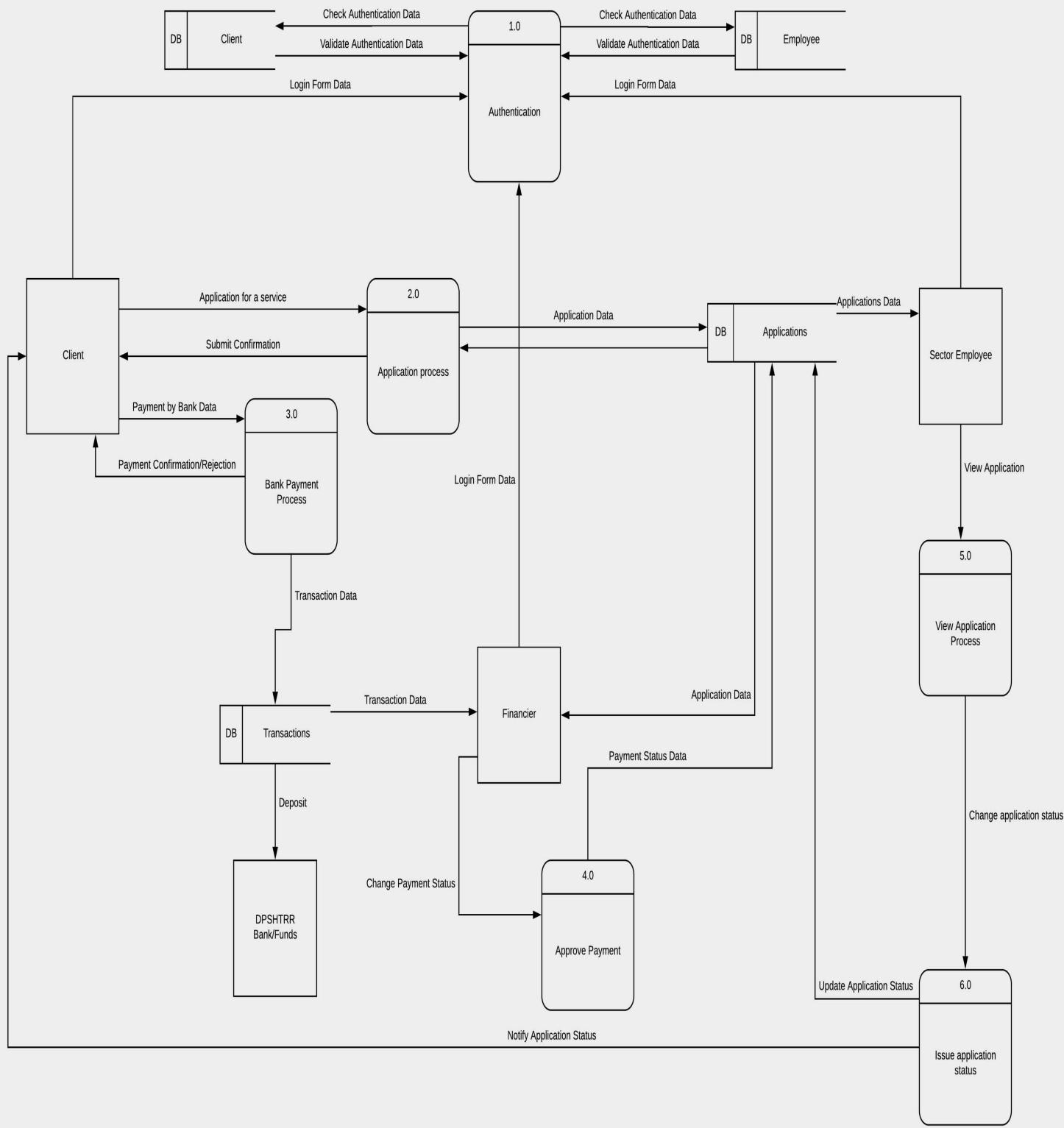
DFD LEVEL 1



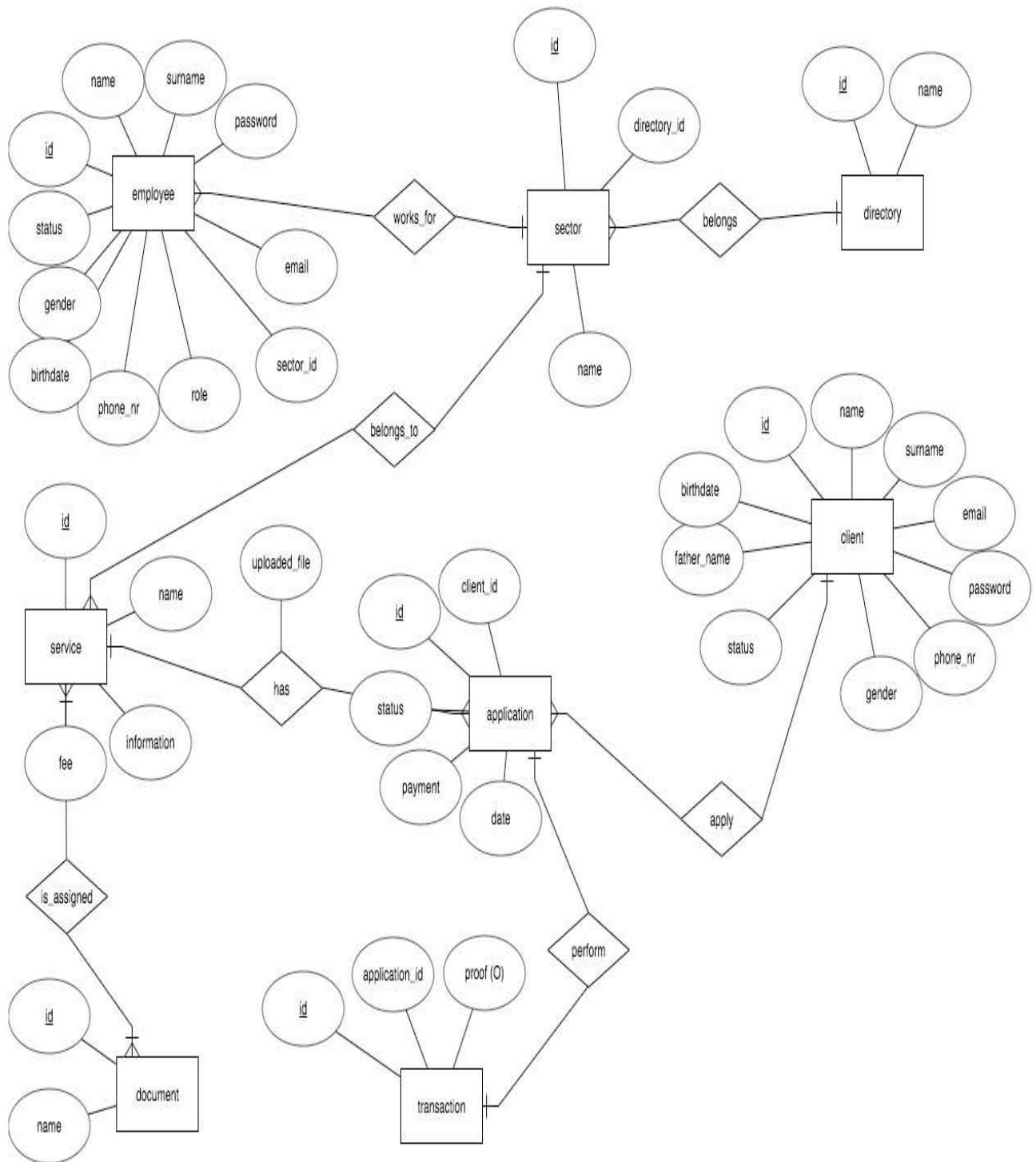
DFD LEVEL 2



DFD LEVEL 3

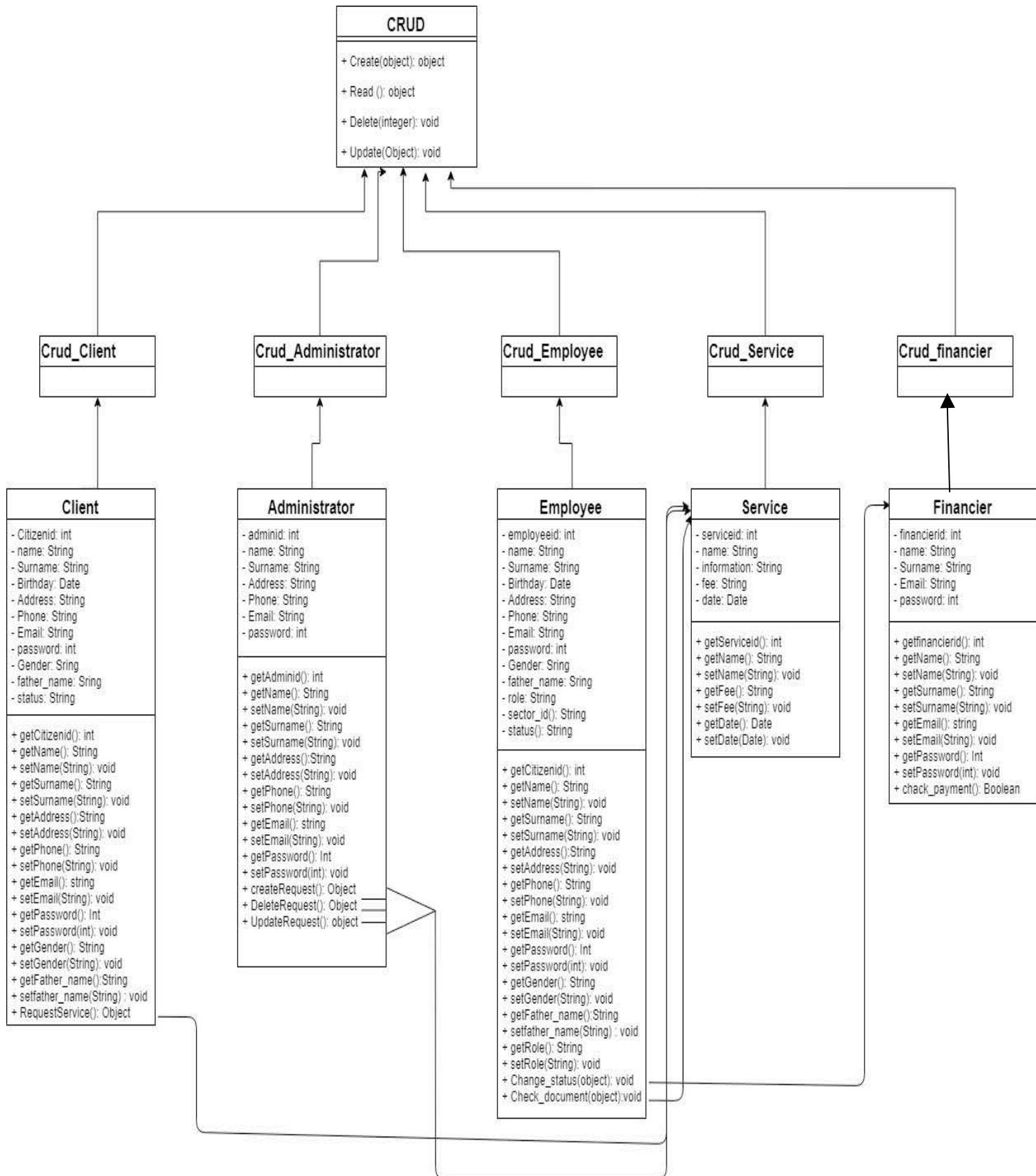


4.9 ER Diagram

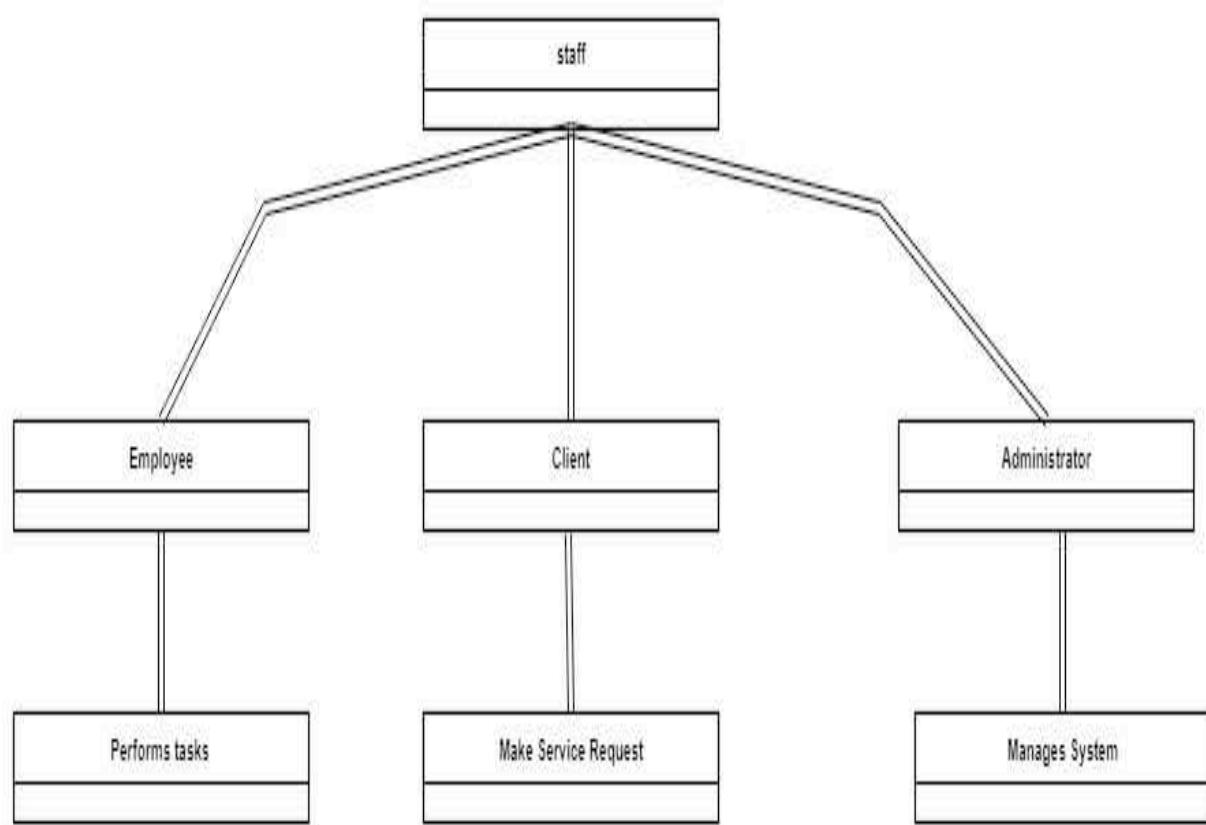


4.10 Class Diagram

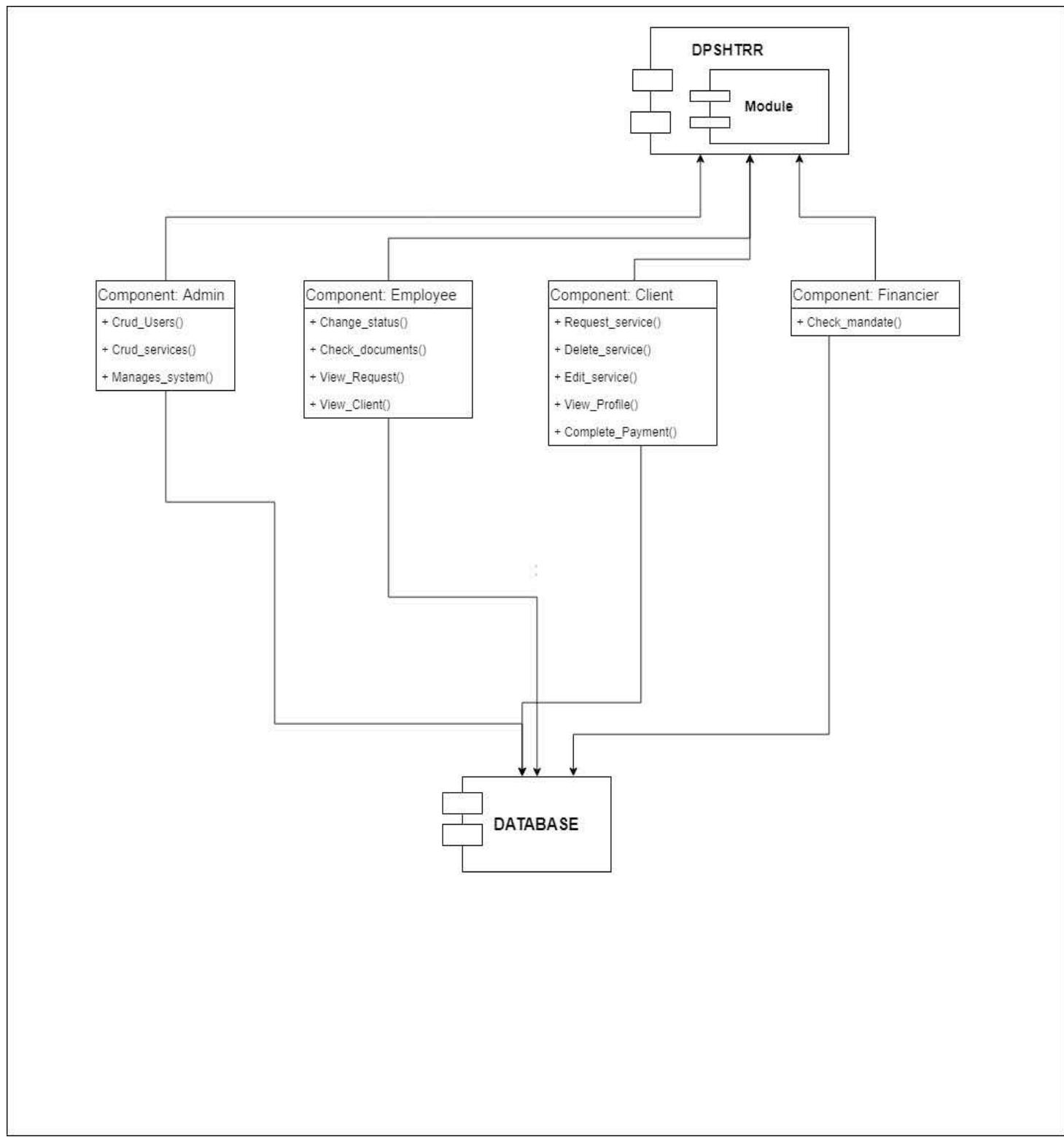
DPSHTRR E-Service – Product Documentation



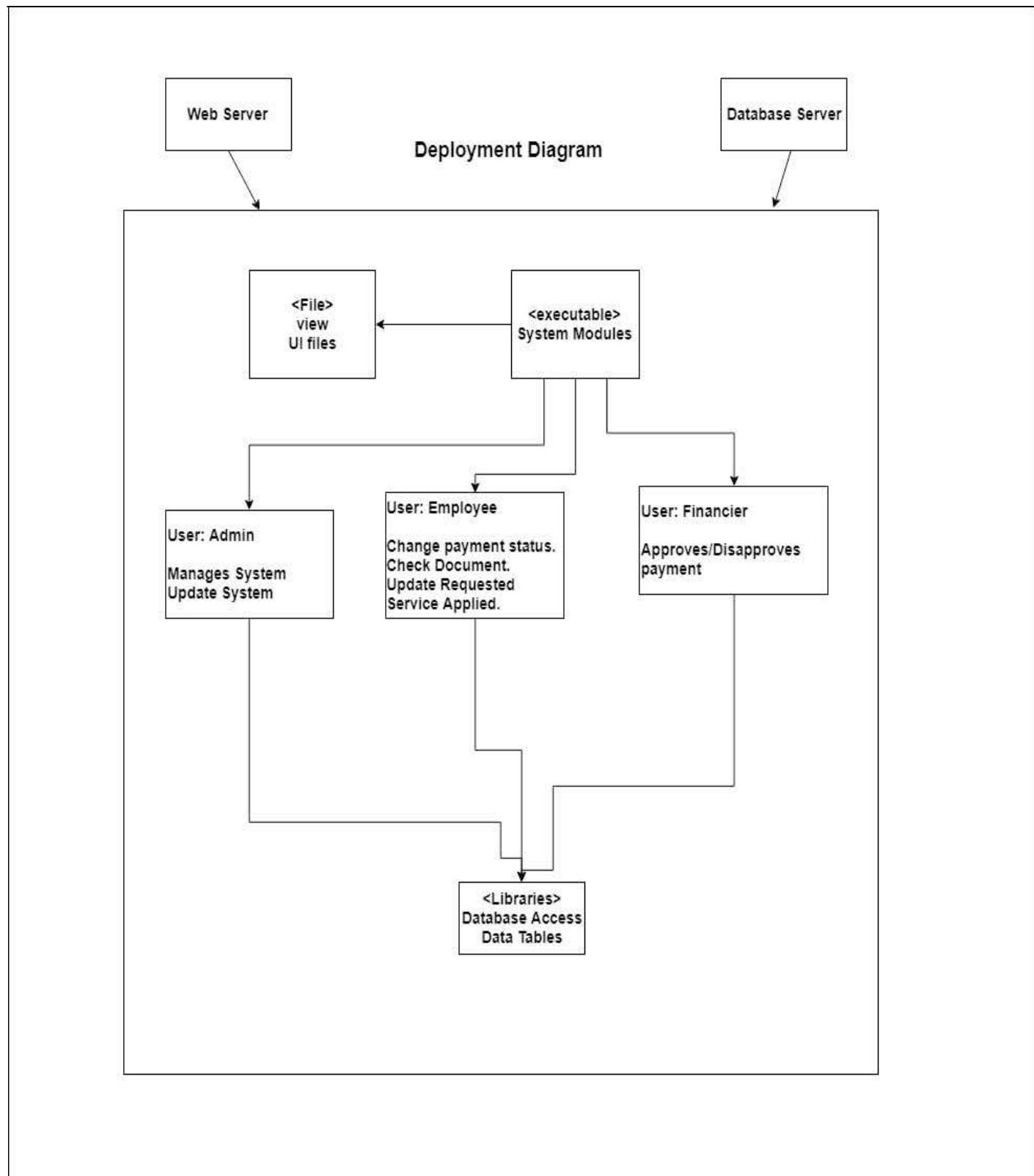
4.11 Object Diagram



4.12 Component Diagram



4.13 Deployment Diagram



5. Implementation

5.1 Technology

Several technological tools were used in this project; each is summarized in the sections that follow.

5.1.1 HTML

HTML stands for Hyper Text Markup Language. A markup language is a language that annotates text in a way that is syntactically distinguishable so that the computer can manipulate it. It is a set of markup tags used to describe web pages. The tags are what separate normal text from HTML code. They are the words between the <angle-brackets>. Different tags will perform different functions, like rendering images or tables. It is a combination of words and symbols which give instructions on how the document will be presented. The tags themselves don't appear when you view your page through a browser, but their effects do. Markup is what HTML tags do to the text inside them. They mark it as a certain type of text (italicized text, for example) [20]. HTML documents contain HTML tags and plain text. The content on a HTML page will be static. In order to change the content, the editor needs to have some knowledge about HTML and change the content accordingly.

5.1.2 CSS

CSS stands for Cascading Style Sheets. It is used to control the style and layout of multiple web pages all at once. Styles define how to display HTML elements. CSS overrides the browser's default settings for interpreting how tags should be displayed, letting you use any HTML element indicated by an opening and closing tag to apply style attributes defined either locally or in a stylesheet. External Style Sheets can save a lot of work. They are stored in CSS files. Stylesheets contain rules, composed of selectors and declarations that define how styles will be applied. The selector (a redefined HTML element, class name, or ID name) is the link between the HTML document and the style. There are two different kinds of selectors: types (HTML element tags) and attributes (such as class and ID names)

5.1.3 JavaScript

JavaScript is a client side scripting language designed to add interactivity to HTML pages. A scripting language is a lightweight programming language. It is usually embedded directly into HTML pages. It is an interpreted language which allows the scripts to execute without preliminary compilation. JavaScript can react to events. A JavaScript can be set to execute when something happens, like when a page has finished loading or when a user clicks on an HTML element. JavaScript can read and write HTML elements and can also change its content and properties. A JavaScript can be used to validate form data before it is submitted to a server. This saves the server from extra processing. A JavaScript can be used to detect the visitor's browser, and depending on the browser, load another page specifically designed for that

browser. Finally, JavaScript can be used to create cookies and to store and retrieve information on the visitor's computer.

5.1.4 jQuery

jQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. jQuery is designed to change the way JavaScript is written. Therefore, jQuery greatly simplifies JavaScript programming [25]. This project specifically uses jQuery for form validation and to implement tabbed menu. It is free, open source software. Dual-licensed under the MIT License or the GNU General Public License, jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. This enables developers to create abstractions for low-level interaction and animation, advanced effects and high-level, theme-able widgets. The modular approach to the jQuery library allows the creation of powerful dynamic web pages and web applications. jQuery includes the following features:

- DOM traversal and modification
- DOM manipulation based on CSS selectors that uses node elements name and node elements attributes (id and class) as criteria to build selectors
- Events
- Effects and animations
- Ajax • Extensibility through plug-ins
- Utilities - such as user agent information, feature detection
- Compatibility methods that are natively available in modern browsers but need fallbacks for older ones (for example, the inArray() and each() functions)
- Cross-browser support.

5.1.5 MySQL

MySQL is a database server is ideal for both small and large applications. It supports standard SQL and compiles on a number of platforms. It is free to download and use.

5.1.6 PHP

PHP (Hypertext Preprocessor) is a widely-used open source server-side scripting language for web development and can be embedded into HTML. PHP pages contain HTML with embedded code [23]. PHP offers several advantages: • PHP runs on different platforms (Windows, Linux, Unix, etc.). • PHP is compatible with almost all servers used today (Apache, IIS, etc.). • PHP is free to download from the official PHP resource: www.php.net. • PHP is easy to learn and runs efficiently on the server side [24]. What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML, which is then sent to the client. The client receives the results of running that script, but does not know what the underlying code was

5.2 Web Application Screenshots

Official DPSHTRR Website with e-service integration

The screenshot shows the official DPSHTRR website. At the top, there is a logo of a stylized road or path leading to a destination, with the text "Drejtoria e Përgjithshme e Shërbimeve të Transportit Rugor". To the right of the logo is the Albanian national flag. Below the header, a large blue banner with the word "e-service" in white and blue letters spans most of the page. The banner has navigation links at the bottom: "Faqja Kryesore", "Rreth DPSHTRR", "Prokurimet", "Informacione të detajuara", "Programi i Transparencës", "Kontakt", and "Drejtori Rajonale". To the right of the banner are small thumbnail images labeled "01", "02", "03", "04", and "Play". The main content area is divided into three columns: "njoftime" (News), "lajme" (News), and "shërbimet" (Services). The "njoftime" section contains an article about training programs. The "lajme" section contains an article about the analysis of 2017. The "shërbimet" section contains three sub-sections: "DPSHTRR ju mundeson te pajisni me Leje Drejtini", "DPSHTRR ju mundeson te pajisni me Tare", and "Gjirakactar 112-10 shërbime të".

Client Login

Login

Wrong ID Personal Number

ID PERSONAL NUMBER

ID Personal Number

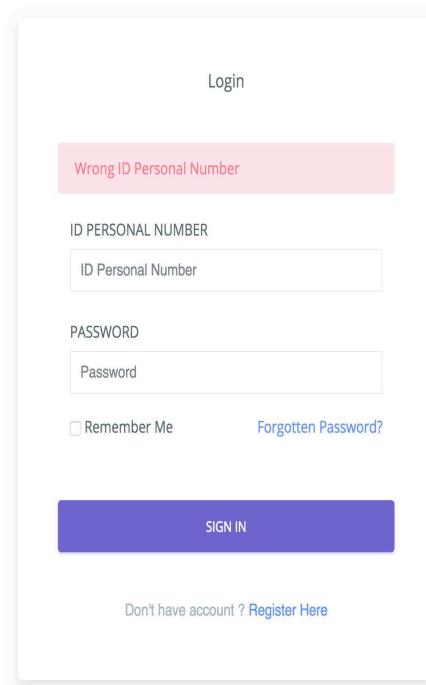
PASSWORD

Password

Remember Me [Forgotten Password?](#)

[SIGN IN](#)

Don't have account? [Register Here](#)



Client Register

Register

ID PERSONAL NUMBER *

Test Validation

ID Personal Number is not valid

NAME *

Name

Please enter your name

SURNAME *

T

Your surname must consist of at least 2 characters

EMAIL *

Enter Your Valid Email

PASSWORD *

Password

CONFIRM PASSWORD *

Confirm Password

PHONE NUMBER*

06xxxxxxxx

BIRTHDAY*

DPSHTRR E-Service – Product Documentation

Client Dashboard

The screenshot shows the DPSHTRR Client Dashboard. On the left is a sidebar with a logo at the top, followed by links: HOME, Dashboard, Applications, Create Application, Profile, Finance, and Complaints. The main area has a header "Dashboard" and a breadcrumb "Home > Dashboard". Below the header are five colored cards: a blue "Applications" card with "See all applications", a green "Create Application" card with "Apply for application", a red "Finance" card with "Applications financial stats", a blue "Profile" card with "See my profile", and a purple "Complaints" card with "Send a complain or question". At the bottom left is a URL bar showing "localhost/DPSHTRRe-services/dpshttr_e-service/client/profile.php".

Client Create Application Part 1

HOME

Dashboard

Applications

Create Application

Profile

Finance

Complaints

Create Application

Choose a Service

Pajisje me leje qarkullimi nderkombetare, 500 leke
Pajisja me leje drejtimi te perkohshme, 600 leke
Rimarja e lejedrejtimit e pezulluar per humbje te pikeve, 1000 leke

Zgjidh

Client Create Application Part 2

HOME

Dashboard

Applications

+ Create Application

Profile

Finance

? Complaints

Create Application

Home > Create Application

Chosen Service: Pajisja me leje drejtimi te perkohshme
Fee: 600 lekë
Information related to service: Mundeson drejtimin e mjetit me afat kohor 30 ditor per individet që kane pasur një leje drejtimi

Document Name: Denoncim i humbjes se lejes originale
Information Related To Document: Perpara se te merret denoncimi duhet ne shkohet prane sporteve te Drejtorese Rajonale per te marrë vErteitim si posedues i lejes se drejtimit i cili paraqitet prane Komisariatit Perkates

Choose Document: No file chosen

Document Name: Dokument identifikimi
Information Related To Document: karta e identitetit ose pasaporta

Choose Document: No file chosen

Client Applications View

The screenshot shows the DPSHTRR E-Service Client Applications View. The top navigation bar includes the DPSHTRR logo, a search bar, and user profile icons. The left sidebar contains links for HOME, Dashboard, Applications, Create Application, Profile, Finance, and Complaints. The main content area is titled "Applications" and shows a notice: "Notice: In order for your application to be checked, you should make the **payment** first! Go to finance to make payments!" Below this is a table titled "All Applications" with the following data:

#	Name	Status	Payment	Date	Action
1	Pajisja me leje drejtimi te perkohshme	READY	NOT PAID	2018-06-02	Go to finance Delete
2	Rinovimi i Deshmise Taksi	READY	PAID	2018-06-02	Delete
3	Rimarja e lejedrejtimit e pezulluar për humbje të pikëve	READY	NOT PAID	2018-06-02	Go to finance Delete
4	Pajisje me leje qarkullimi nderkombetare	READY	NOT PAID	2018-06-03	Go to finance Delete

DPSHTRR E-Service – Product Documentation

Client Finance View

HOME

Dashboard

Applications

Create Application

Profile

Finance

Complaints

Finance

All Applications

#	Name	Status	Payment	Fee	Date	Actions
1	Pajisja me leje drejtimi te perkohshme	READY	NOT PAID	600 ALL	2018-06-02	Pay By Bank Pay By Card
2	Pajisja me leje drejtimi te perkohshme	READY	NOT PAID	600 ALL	2018-06-02	Pay By Bank Pay By Card
3	Pajisje me leje qarkullimi nderkombetare	READY	NOT PAID	500 ALL	2018-06-03	Pay By Bank Pay By Card

DPSHTRR E-Service – Product Documentation

Client Upload Bank Proof

The screenshot shows the DPSHTRR E-Service interface. On the left, there's a sidebar with a logo and links: HOME, Dashboard, Applications, Create Application, Profile, Finance, and Complaints. The main area has a header 'Finance' and a breadcrumb 'Home > Finance'. A central modal window titled 'Bank Proof Upload' contains a note: 'Choose your bank proof for application of service: Pajisja me leje drejtimi te perkohshme'. It has a 'Choose File' button with the message 'No file chosen', an 'Upload Proof' button, and a 'Cancel' button. Below this, a table titled 'All Applications' lists three entries:

#	Name	Status	Payment	Fee	Date	Actions
1	Pajisja me leje drejtimi te perkohshme	READY	NOT PAID	600 ALL	2018-06-02	Pay By Bank Pay By Card
2	Pajisja me leje drejtimi te perkohshme	READY	NOT PAID	600 ALL	2018-06-02	Pay By Bank Pay By Card
3	Pajisje me leje qarkullimi nderkombetare	READY	NOT PAID	500 ALL	2018-06-03	Pay By Bank Pay By Card

Client View/Edit Profile

The screenshot shows the DPSHTRR E-Service Client View/Edit Profile interface. At the top left is a logo with a red triangle and the text 'DPSHTRR'. To its right are three horizontal bars and a user icon. The top right corner shows 'Home > Profile'. On the left is a sidebar with links: HOME, Dashboard, Applications, Create Application, Profile (which is selected and highlighted in blue), Finance, and Complaints. The main content area has a title 'Profile' and a sub-section 'Personal info'. It contains fields for ID Personal Number (aa12321218), Name (Andis), Surname (Xhaferaj), Email (andi_xhaferaj@hotmail.com) with an 'Update' button, Phone Number (0684565452) with an 'Update' button, Birthday (05/15/2018), and Gender (male).

DPSHTRR E-Service – Product Documentation

Client Create Complain

The screenshot shows the 'Create Complain' page of the DPSHTRR E-Service. At the top left is a logo with a red triangle and a blue gear. To its right are three horizontal lines indicating a menu. On the far right is a user icon. The top navigation bar includes links for 'HOME', 'Dashboard', 'Applications', 'Create Application', 'Profile', 'Finance', 'Complaints', 'Home > Complaints', and a search bar.

The main content area has a title 'Questions/Complain Form'. It contains two input fields: 'Subject' (empty) and 'Message' (empty). A large purple 'Submit' button is at the bottom of the form.

DPSHTRR E-Service – Product Documentation

Financier Dashboard

The screenshot shows the Financier Dashboard interface. On the left is a sidebar with a logo, navigation links for HOME, Dashboard, Applications, Unpaid Applications, Paid Applications, and Profile, and a menu icon. The main area has a header with the title "Dashboard" and a back-link "Home > Dashboard". Below the header are three cards: "Applications" (blue background, white text) with a document icon, "Pending Applications" (green background, white text) with a circular icon, and "Finished Applications" (red background, white text) with a checkmark icon. Each card has a "See all applications" link below its title.

DPSHTRR E-Service – Product Documentation

Financier Pending Applications

The screenshot shows the DPSHTRR E-Service interface for managing pending applications. The left sidebar includes links for HOME, Dashboard, Applications, Unpaid Applications (highlighted), Paid Applications, and Profile. The main content area is titled "Pending Applications" and displays a table of three entries:

#	Application Id	Client Name	Client Surname	Service Name	Payment	Date	Change Payment Status	Action
1	19	Andis	Xhaferraj	Pajisja me leje drejtimi te perkohshme	NOT PAID	2018-06-02	<button>Paid</button>	<button>View Bank Proof</button>
2	20	Andis	Xhaferraj	Pajisje me leje qarkullimi nderkombetare	NOT PAID	2018-06-03	<button>Paid</button>	<button>View Bank Proof</button>
3	21	Olka	Qirjaqi	Pajisja me leje drejtimi te perkohshme	NOT PAID	2018-06-03	<button>Paid</button>	<button>View Bank Proof</button>

DPSHTRR E-Service – Product Documentation

Financier Paid Applications

The screenshot shows the DPSHTRR E-Service interface. At the top, there is a logo and a navigation bar with links for HOME, Dashboard, Applications, Unpaid Applications, Paid Applications (which is currently selected), and Profile. On the right side of the header is a user profile icon. The main content area has a title "Paid Applications". Below it is a table titled "Paid Applications" with the following data:

#	Application Id	Client Name	Client Surname	Service Name	Payment	Date	Change Payment Status	Action
1	18	Olimbia	Qirjaq	TEST	PAID	2018-06-02	Not Paid	View Bank Proof

DPSHTRR E-Service – Product Documentation

Employee View/Edit Profile

The screenshot shows the DPSHTRR E-Service interface for employee profile management. The top navigation bar includes links for HOME, Dashboard, Applications, Unpaid Applications, Paid Applications, and Profile. The current page is 'Edit Profile' under the 'Dashboard' section. The profile information displayed is:

Personal info	
ID Personal Number	AA123123AC
Name	Olimbia
Surname	Qirjaqi
Email	oqirjaqi15@epoka.edu.al
Phone Number	0694756111
Birthday	05/08/2018
Gender	female

Each input field has an 'Update' button to its right.

DPSHTRR E-Service – Product Documentation

Employee Dashboard

The screenshot displays the DPSHTRR Employee Dashboard. At the top left is the DPSHTRR logo. To its right are three small icons: a person, a gear, and a list. The top center features the word "Dashboard". On the far right, there is a breadcrumb navigation: "Home > Dashboard". The left sidebar contains a "HOME" section with links: "Dashboard" (highlighted in blue), "Applications", "Pending Applications", "Finished Applications", "Profile", and "Complaints". The main content area has five colored boxes: a blue "Applications" box with a document icon, a green "Pending Applications" box with a circular arrow icon, a red "Finished Applications" box with a checkmark icon, a blue "Profile" box with a person icon, and a purple "Complaints" box with a list icon. Each box has a "See all [category]" link below it.

DPSHTRR E-Service – Product Documentation

Employee View Applications

The screenshot displays the DPSHTRR E-Service application interface for employees. On the left, there's a sidebar with navigation links: HOME, Dashboard, Applications (which is selected), Pending Applications, Finished Applications, Profile, and Complaints. The main content area is titled "Applications" and shows a table titled "All Applications". The table has columns for #, Application Id, Client Name, Client Surname, Service Name, Status, Date, and Action. There are four rows of data:

#	Application Id	Client Name	Client Surname	Service Name	Status	Date	Action
1	16	Andis	Xhaferraj	Pajisja me leje drejtimi te perkohshme	READY	2018-06-02	View Application
2	19	Olimbia	Qirjaqi	Pajisja me leje drejtimi te perkohshme	PENDING	2018-06-02	View Application
3	20	Klajdi	Baliliu	Pajisje me leje qarkullimi nderkombetare	PENDING	2018-06-03	View Application
4	21	Mirilan	Cakallii	Pajisja me leje drejtimi te perkohshme	PENDING	2018-06-03	View Application

DPSHTRR E-Service – Product Documentation

Employee Review & Change Status Application

The screenshot displays the DPSHTRR E-Service application interface. On the left, there is a sidebar with a logo at the top, followed by a navigation menu with the following items:

- HOME
- Dashboard
- Applications
- Pending Applications
- Finished Applications
- Profile
- Complaints

The main content area shows details for an application with Application Id: 19, which is currently PENDING. The service requested is "Pajisja me leje drejtimi te perkohshme". The applicant's name is Andis and their surname is Xhaferraj. Below this, two documents are listed:

- Document Name: Denoncim i humbjes se lejes originale (with a "View Document" button)
- Document Name: Dokument identifikimi (with a "View Document" button)

At the bottom of the main content area, there is a "Select Application Status" dropdown set to "Pending" and a "Change" button.

DPSHTRR E-Service – Product Documentation

Employee Pending Applications

The screenshot shows a web-based application interface for DPSHTRR E-Service. At the top, there is a logo and a navigation bar with links for HOME, Dashboard, Applications, Pending Applications (which is the active tab), Finished Applications, Profile, and Complaints. The main content area is titled "Applications" and displays a table of "All Applications". The table has columns for #, Application Id, Client Name, Client Surname, Service Name, Status, Date, and Action. There are three entries in the table:

#	Application Id	Client Name	Client Surname	Service Name	Status	Date	Action
1	19	Olimbia	Qirjaqi	Pajisja me leje drejtimi te perkohshme	PENDING	2018-06-02	View Application
2	20	Andis	Xhaferraj	Pajisje me leje qarkullimi nderkombetare	PENDING	2018-06-03	View Application
3	21	Klajdi	Balliu	Pajisja me leje drejtimi te perkohshme	PENDING	2018-06-03	View Application

Employee Finished Applications

The screenshot shows the DPSHTRR E-Service application interface. At the top, there is a logo and a navigation bar with links for HOME, Dashboard, Applications, Pending Applications, Finished Applications (which is selected and highlighted in blue), Profile, and Complaints. The main content area is titled "Applications" and displays a table titled "All Applications". The table has columns for #, Application Id, Client Name, Client Surname, Service Name, Status, Date, and Action. There are three rows of data:

#	Application Id	Client Name	Client Surname	Service Name	Status	Date	Action
1	16	Olimbia	Qirjaqi	Pajisja me leje drejtimi te perkohshme	READY	2018-06-02	View Application
2	19	Andis	Xhaferraj	Pajisja me leje drejtimi te perkohshme	READY	2018-06-02	View Application
3	20	Mirlan	Cakalli	Pajisje me leje qarkullimi nderkombetare	READY	2018-06-03	View Application

DPSHTRR E-Service – Product Documentation

Admin Dashboard

The screenshot displays the Admin Dashboard interface. On the left, a sidebar lists navigation items: HOME, Dashboard (selected), Employees, Services, Documents, Clients, and Profile. The main content area is titled "Dashboard" and contains six colored cards arranged in two rows of three:

- Employees** (Blue card): Shows a user icon and the text "See all employees".
- Services** (Green card): Shows a grid icon and the text "See all services offered".
- Documents** (Purple card): Shows a document icon and the text "See all documents".
- Clients** (Red card): Shows a user icon and the text "See all clients".
- Profile** (Blue card): Shows a user icon and the text "See my profile".

DPSHTRR E-Service – Product Documentation

Admin View Employees

The screenshot shows the DPSHTRR E-Service Admin View Employees interface. At the top, there's a logo with a red triangle and the text "DPSHTRR". To the right are three icons: a person, a gear, and a search/magnifying glass. The main navigation bar has "HOME" and "Dashboard" on the left, and "Logout" on the right. A sidebar on the left contains links: "Dashboard", "Employees" (selected, showing "View All Employees"), "Create Employee", "Services", "Documents", "Clients", and "Profile". The main content area is titled "Dashboard" and "All Employees". It displays a table with four rows of employee data:

#	ID Personal Number	Name	Surname	Email	Sector	Action
1	AA123123AA	Andis	Xhaferaj	andixhaferaj1995@gmail.com	Sektori i Regjistrimit te Mjeteve	View Employee
2	AA123123AC	Olimbia	Qirjaq	oqirjaq15@epoka.edu.al	Sektori i Finances	View Employee
3	AA123123AE	Mirlan	Cakalli	mcakalli15@epoka.edu.al	Sektori i Licensimit dhe Certifikimit	View Employee
4	AA123123AF	Klajdi	Balliu	kballiu15@epoka.edu.al	Sektori i Licensimit dhe Certifikimit	View Employee

DPSHTRR E-Service – Product Documentation

Admin View/Edit Selected Employee Profile

The screenshot shows the 'Employee Profile' section of the DPSHTRR E-Service. On the left, there's a sidebar with a logo and links for HOME, Dashboard, Employees, Services, Documents, Clients, and Profile. The main area has a title 'Employee Profile' and a sub-section 'Employee info'. It contains fields for ID Personal Number (AA123123AA), Name (Andis), Surname (Xhaferaj), Email (axhaferaj15@epoka.edu.al), Phone Number (0694756111), Birthday (10/06/1996), Sector (Sektori i Regjistrimit te Mjeteve), and Password (partially visible). Each field has an 'Update' button to its right.

Employee Profile

Employee info

ID Personal Number
AA123123AA

Name
Andis

Surname
Xhaferaj

Email
axhaferaj15@epoka.edu.al

Phone Number
0694756111

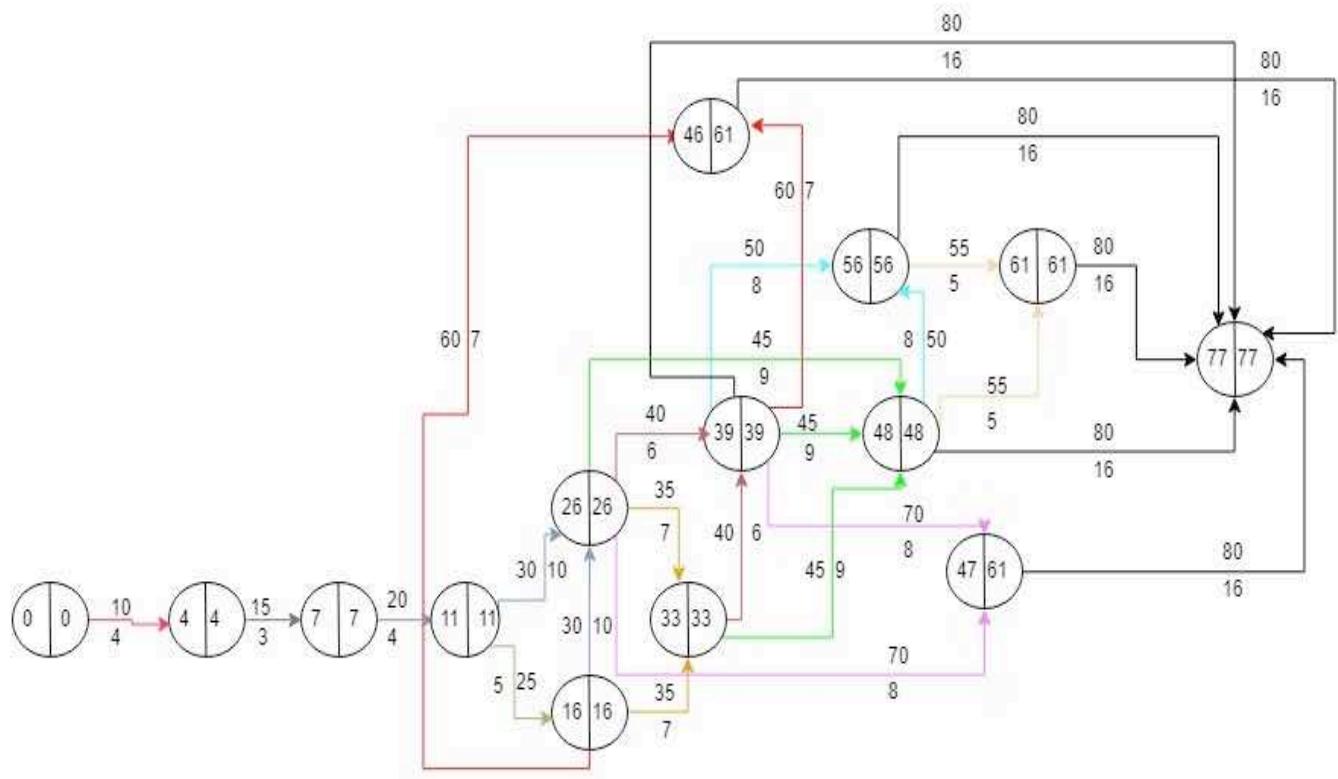
Birthday
10/06/1996

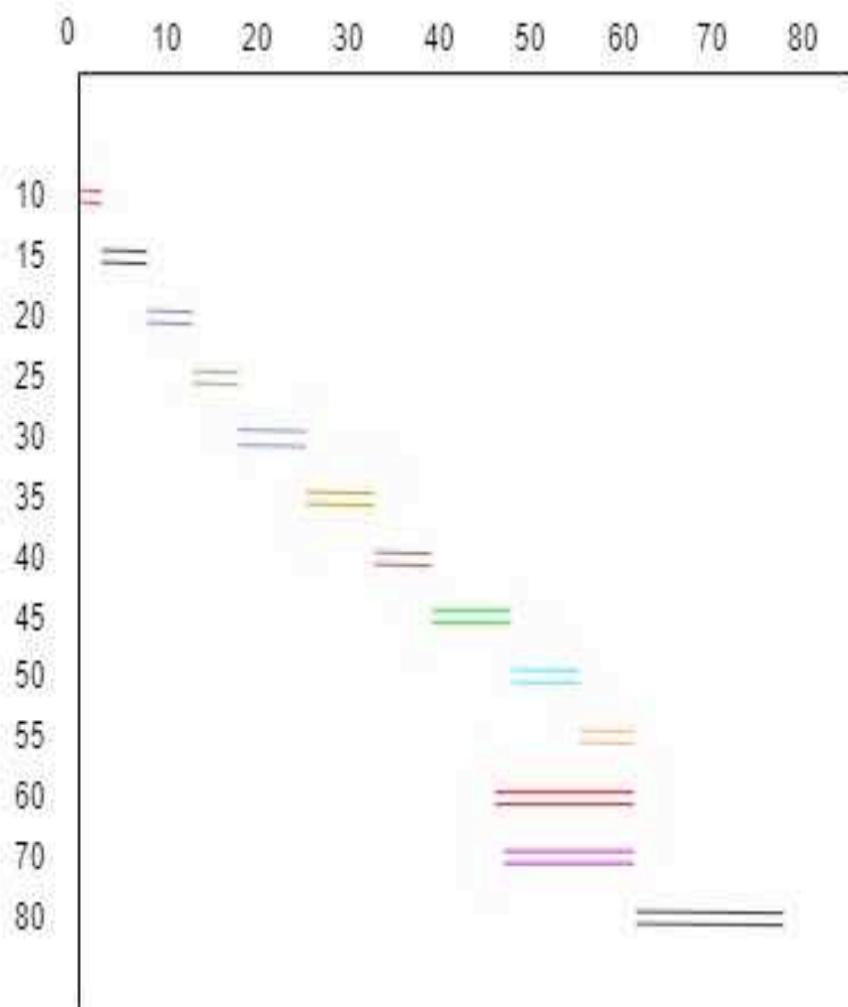
Sector
Sektori i Regjistrimit te Mjeteve

Password

6. Project Planning

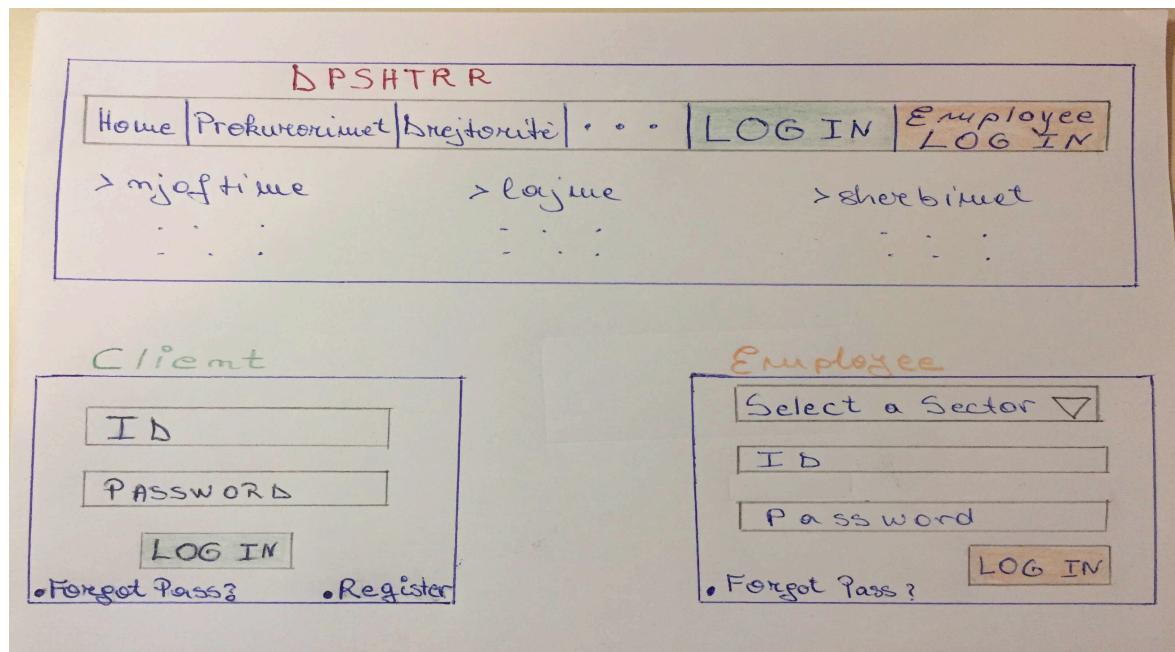
Number	Activity	Duration	Dependencies
10	Propose topics for project	4	
15	Decide the topic	3	10
20	Project description	4	15
25	Structure	5	20
30	Working on requirements (specification)	10	20,25
35	Sketches, UML user cases	7	25,30
40	User scenarios, User case diagram	6	30,35
45	Sequence, State, activity and collaboration diagram	9	30,35,40
50	ER, DFD diagrams	8	40,45
55	Class, Object, Component, Deployment diagram	5	45,50
60	Structure of the database	7	25,40
70	Design	8	30,40
80	Finish the code	16	35,45,50,55,60,70

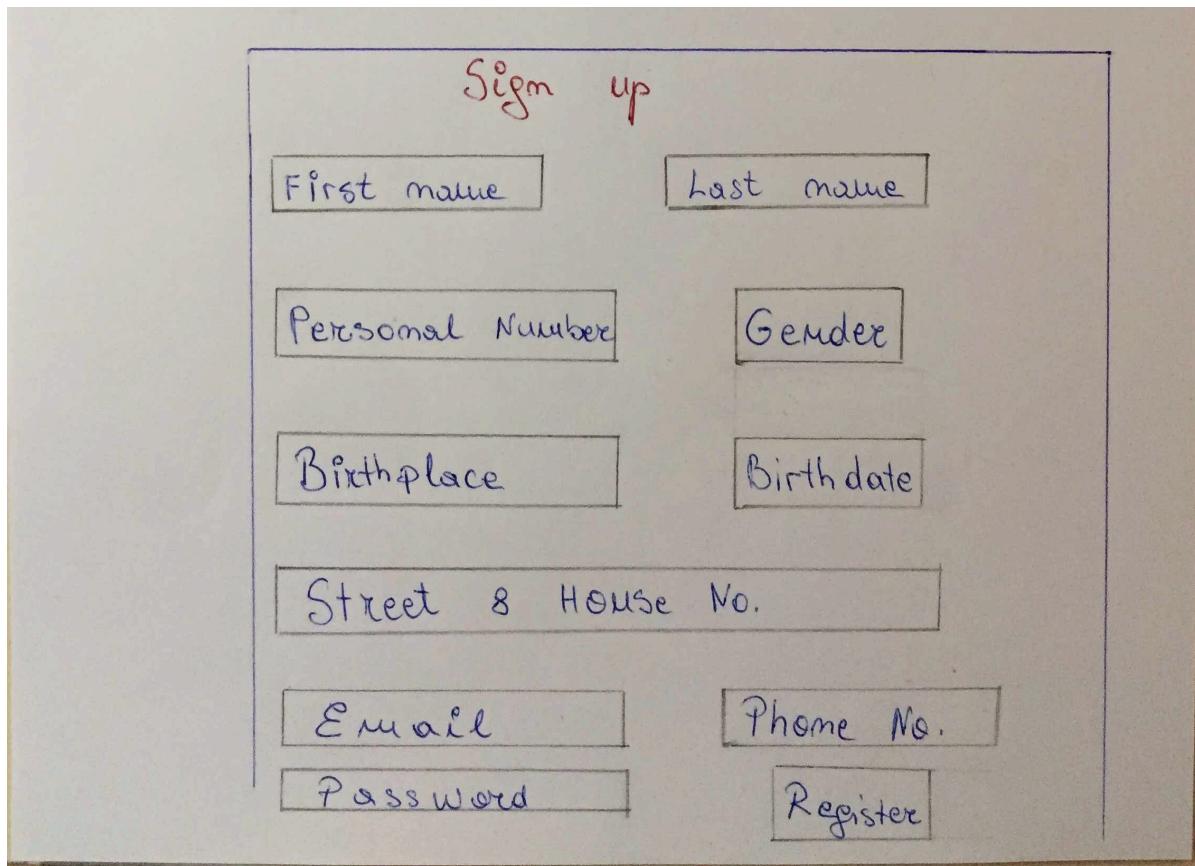




Appendix

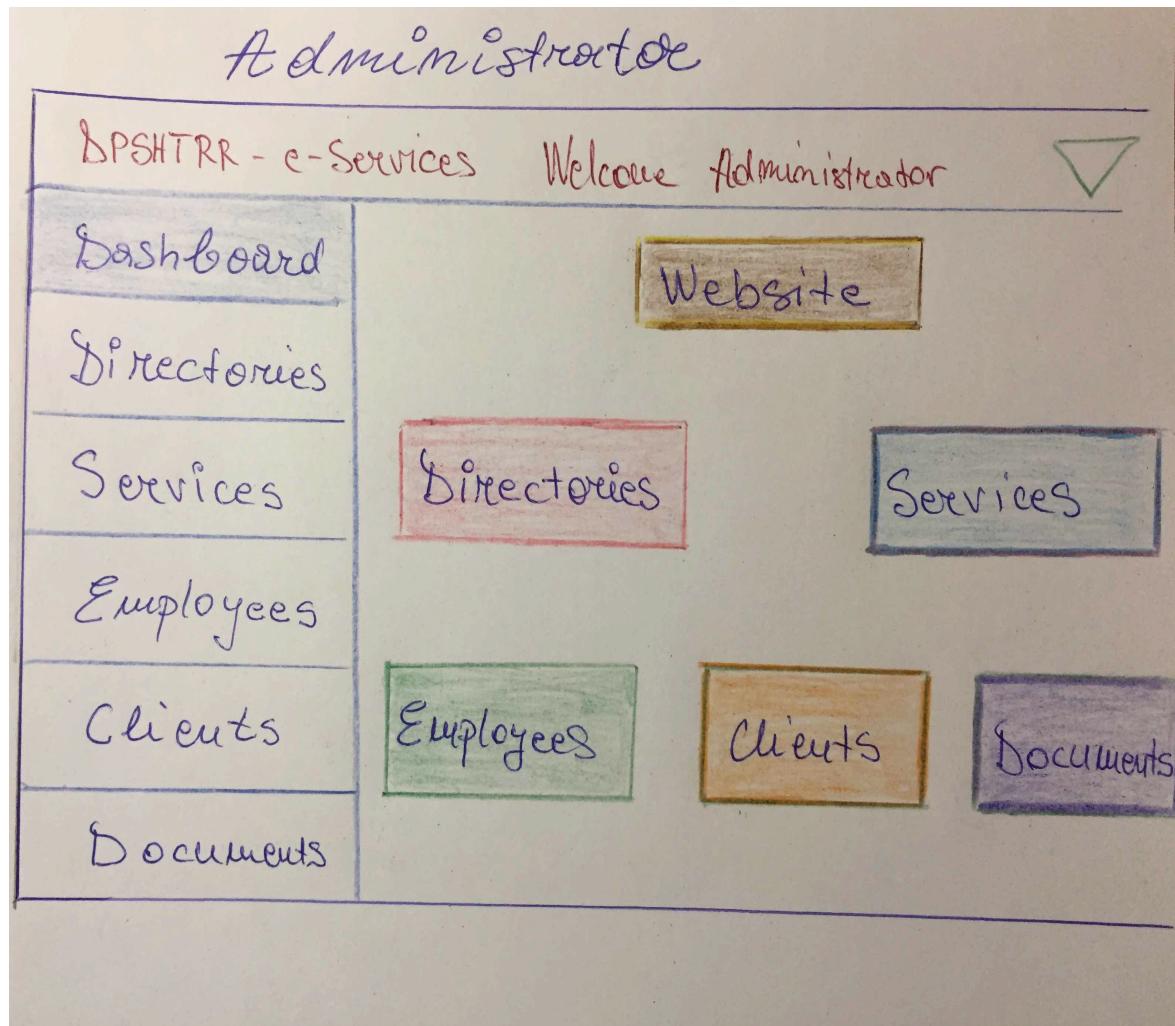
Appendix A. Sketches





A hand-drawn diagram of a sign-up form. At the top center, the words "Sign up" are written in red. Below this, there are two rows of input fields. The first row contains "First name" and "Last name". The second row contains "Personal Number" and "Gender". In the third row, there are two side-by-side input fields: "Birthplace" on the left and "Birth date" on the right. The fourth row is a single long input field labeled "Street & House No.". The fifth row contains "Email" and "Phone No." in separate input fields. The sixth row contains "Password" and "Register" in separate input fields.

Sign up	
First name	Last name
Personal Number	Gender
Birthplace	Birth date
Street & House No.	
Email	Phone No.
Password	Register





Admin : Add Employee

Name :

Surname :

Birthplace : Birthdate :

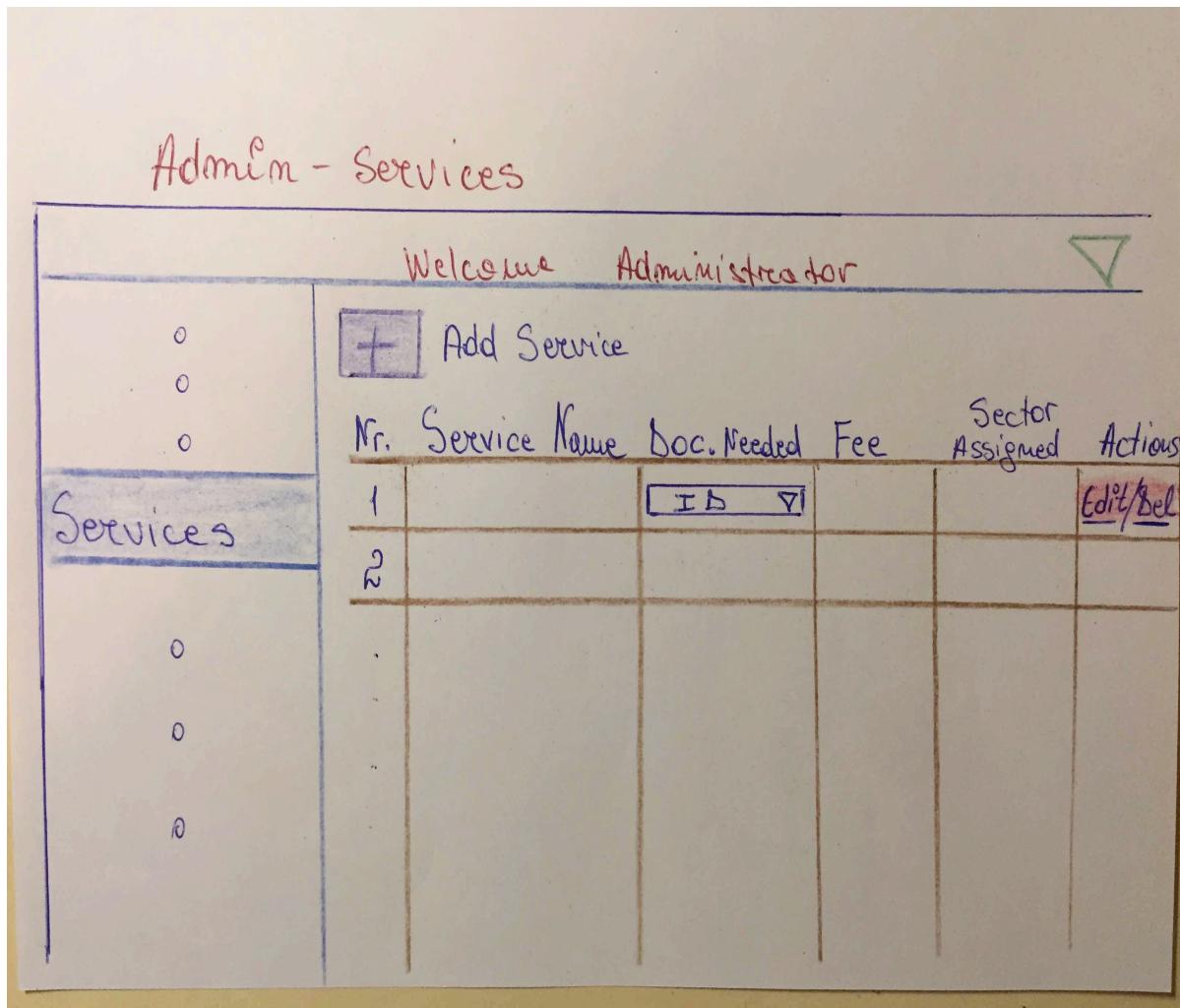
Phone Nr. : Email :

Gender :

Personal Nr. :

Password :

Sector : ▾ Add



Admin : Add Service

Service Name :

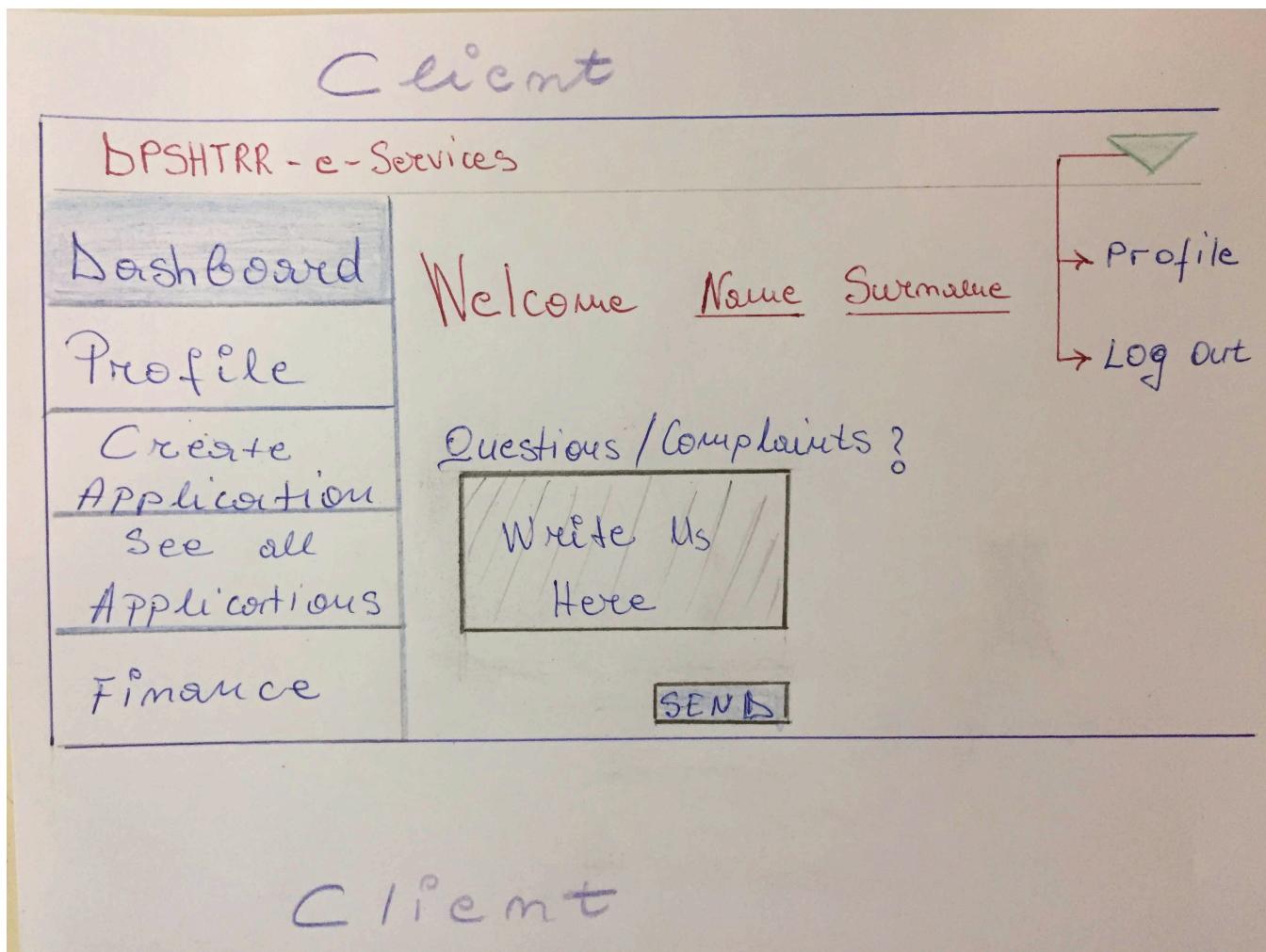
Documents needed : ▽
 ID

⋮

Fee :

Sector assigned : ▽
Sector Name 1
⋮

Add Service

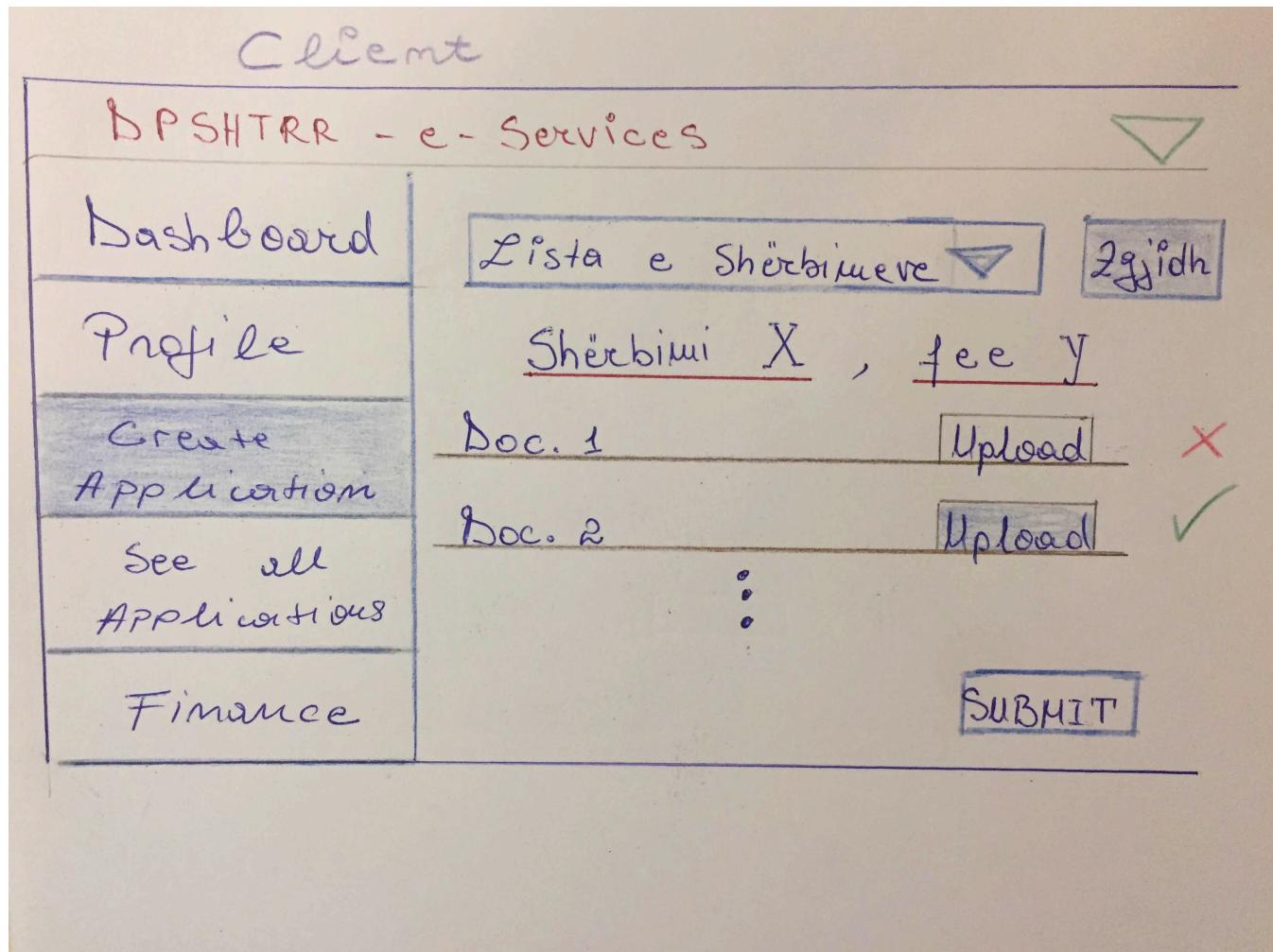


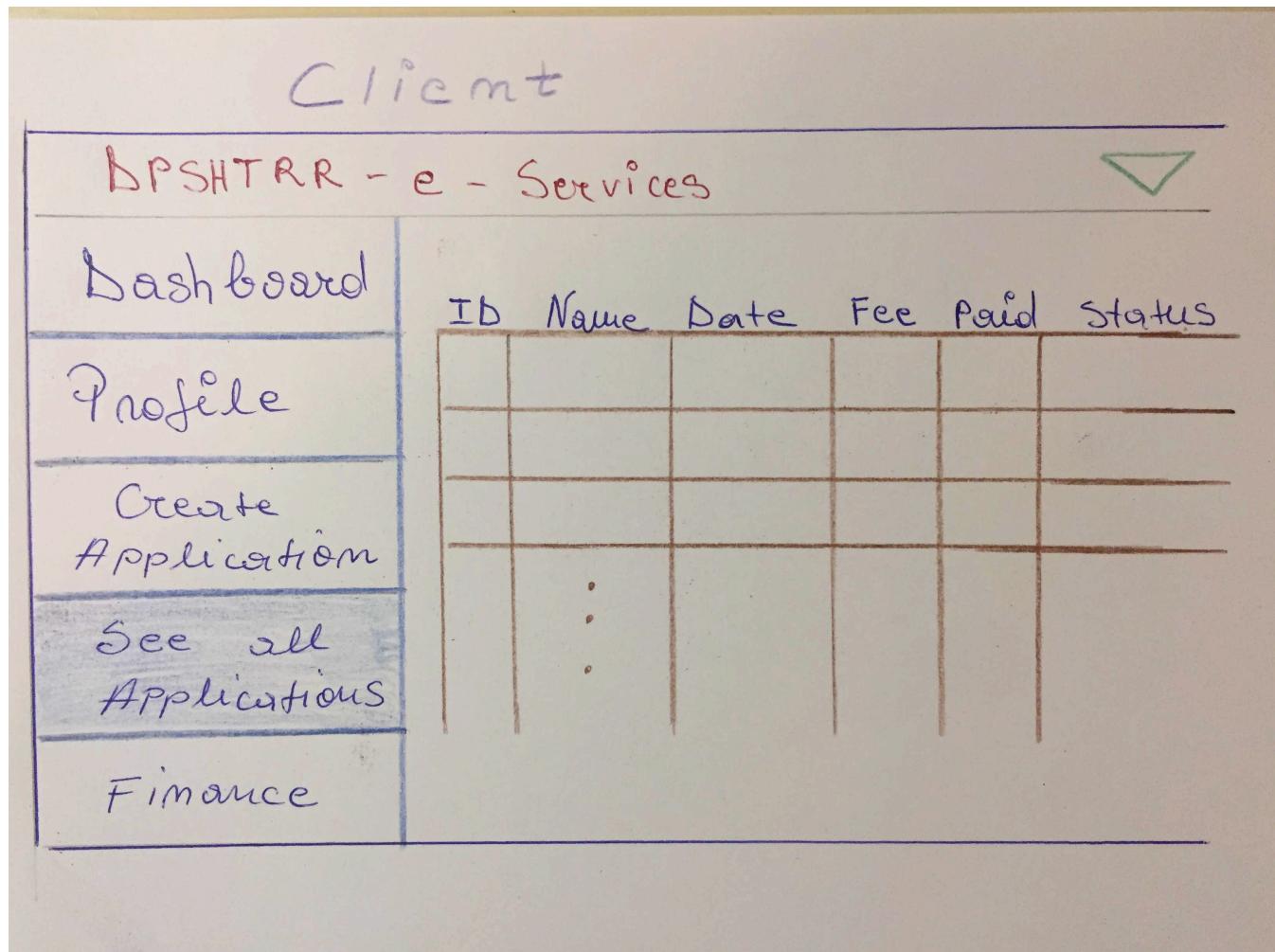
Client

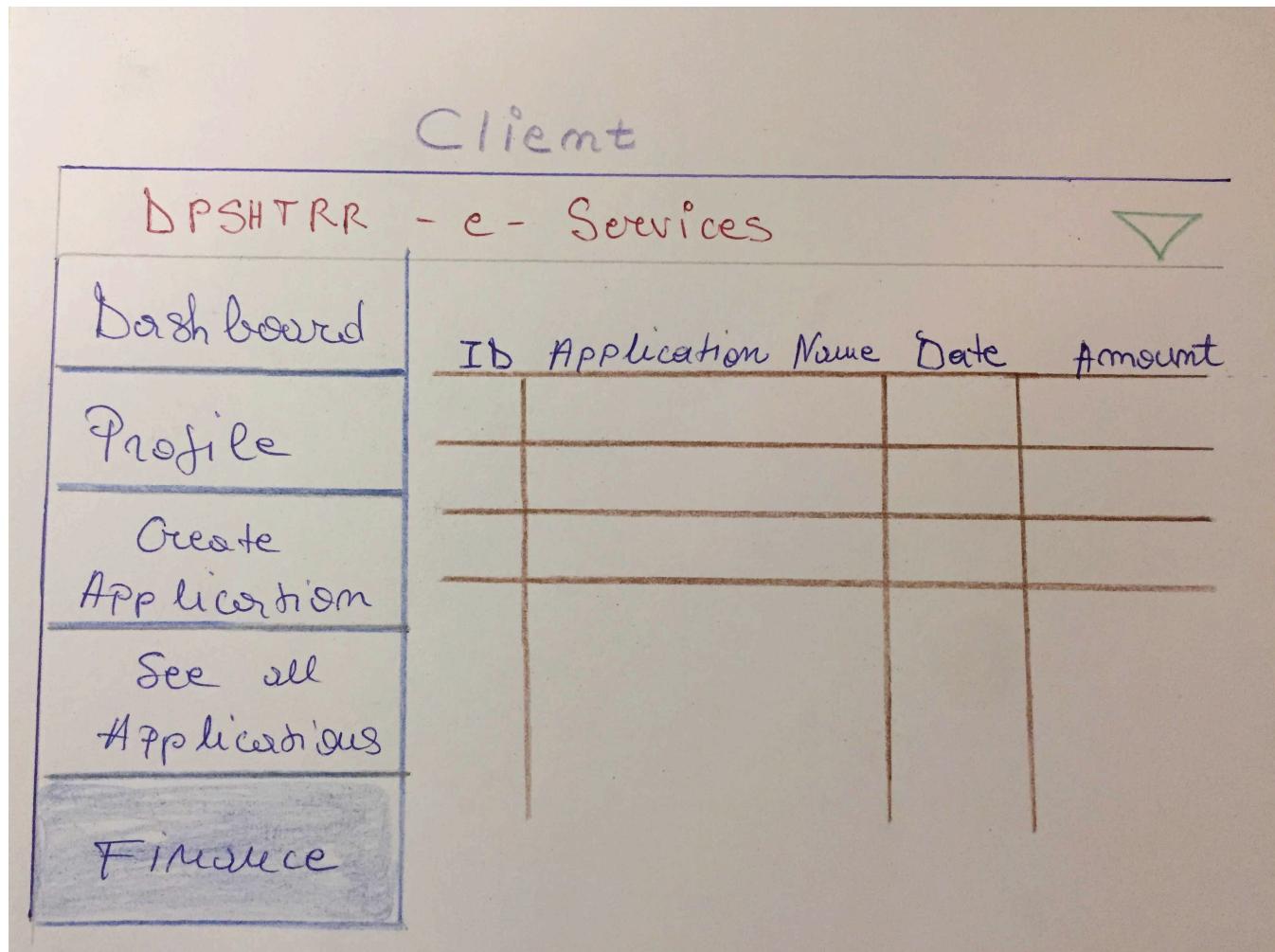
DPSHTRR - e-Services

▽

Dashboard	First Name	Last Name
Profile	Personal No.	Gender
Create Application	Birthplace	Birthdate
See all Applications	Email	Phone No.
Finance	Street and House No.	Save
	Password	







Employee

DPSHTRR - e - Services

▼

	Applicant ID	Applicant Name	Service Surname	Service Requested	Status
All Applications	1034	Olimbia	Ziriaapi	Registration	Pending
Pending Applications					
Finished Applications					
Profile					

View an Application (Employee)

Application No: 1037

Applicant Name: Olimbi

Applicant Surname: Djayengi

Applicant Birthdate: 23.06.1997

Applicant Birthplace:

→ ID : id.pdf Download / Print

→ License : license.pdf Download / Print

⋮
⋮

Status:

Not checked	✓
Ongoing	
Completed	
Not Valid	

Change Status

