System description:

A law firm management system is an essential tool for any law office looking to streamline its workflow and ensure effective case management. This system provides a platform for organizing and managing various tasks that are carried out in the law office. The system user, who is typically a staff member, can assign lawyers to specific cases, manage client data, estimate case costs, and keep scanned copies of all documents that are used in a particular case. Additionally, the system should send reminders to lawyers with upcoming appointments for cases in court.

The law firm management system has various functional requirements that make it an all-encompassing platform for managing law office tasks. The admin user can manage all system accounts, including those of lawyers, lawyer assistants, and other admins, in addition to specifying their accessibilities. The lawyer assistant can manage client data within the system separately to guarantee consistency and full control. This means that clients can have multiple cases in the system without inserting their data for each case. The lawyer can add a case to the database through the system and update its state in different times. The lawyer can also assign a team of lawyers to a specific case using the system. The system will provide a list of suitable lawyers for the lawyer to choose from, ensuring that only the required team is assigned. Lawyers can also upload different documents to the case as they update its state. The lawyer assistant can manage appointments between clients and their lawyers and send reminders to lawyers with upcoming appointments.

Estimating case costs is another feature of the law firm management system. The system can help estimate the case costs that should be paid by the clients according to a number of factors, such as complexity, case type, and required expenses. This ensures that clients are fully aware of the costs associated with their case.

Finally, the law firm management system should provide different reports, such as cases report, clients report, and financial report. This enables staff members to track the progress of cases, manage client data, and monitor the financial performance of the law office.

Overall, the law firm management system is an all-encompassing platform that provides staff members with an effective tool for managing law office tasks. The system's various features, such as estimating case costs, managing appointments, and generating reports, make it an indispensable tool for any law office looking to optimize its workflow and improve its efficiency.

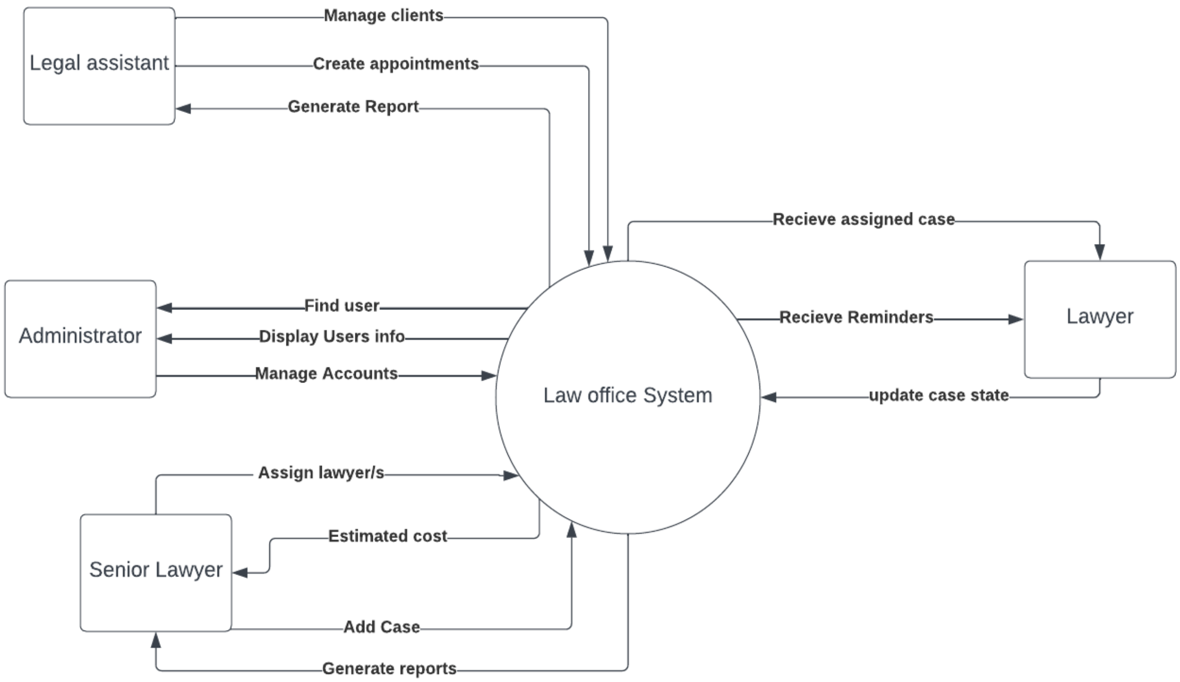
Functional Requirements:

Function	Description
Manage account	Admin user will be able to manage all system accounts (Lawyer, Lawyer assistant and even the new other admins) in addition to specifying their accessibilities.
Manage client	Although the client has direct access to the system, the lawyer assistant should be able to manage clients' data within the system separately which guarantee the consistency in data and full control. As a result, the client may have a number of cases in the system without inserting the client's data for each case.
Manage case	The lawyer should be able add a case to the database through the system as well as updating its state in different times.
Assign lawyer	The lawyer should be able to use the system to assign the lawyers team to a specific case as the system should assist him by providing a list of the suitable lawyers that he can select from only by choosing the required case.
Upload document	The system should allow lawyers to upload different documents to the case as they update its state.
Manage appointment	The lawyer assistant should be able to manage the appointments between clients and their lawyers.
Send reminder	the system should notify lawyers with upcoming appointments when a certain time is left.
Estimate cost	the system can help estimate the case costs that should be paid by the clients according to a number of factors such as the complexity, the case type and its required expenses
Generate report	The system should provide different reports such as cases report, clients report and even financial report.

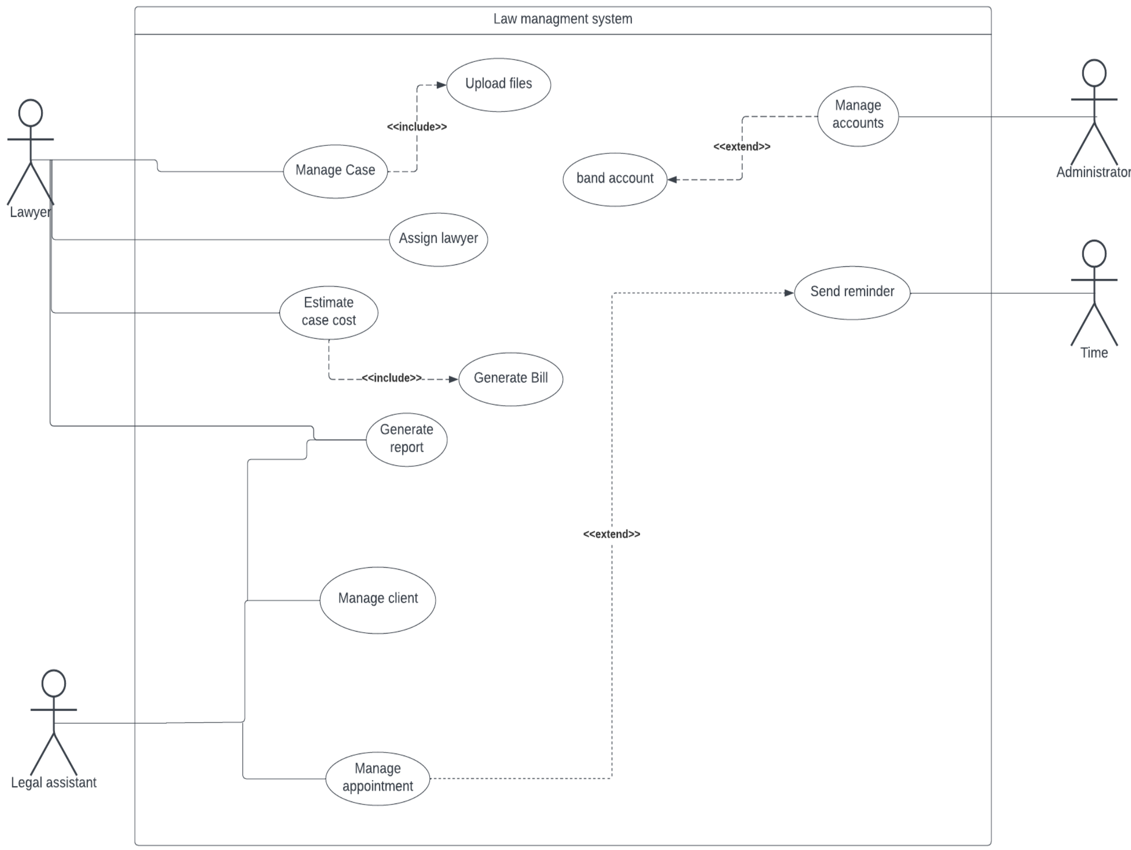
Non-Functional Requirements:

Function	Description
Usability	The system should be easy to use, familiar with its language and symbols and it should have an intuitive user interface that allows users to quickly access the information.
Security	The system should be designed with a high level of security to protect sensitive data of clients in addition to providing different authorizations to different users.
Reliability	The system should be reliable and available 24/7 to allow lawyers and legal assistants to access the information they need at any time. In addition, the system should have a robust backup and recovery plan to protect against data loss or system failures.
Scalability	The system should be ready to handle a large amount of data and users as it grows. Also, it should allow for auditing and tracking of user activities and changes made to client and case data for accountability and compliance
Performance	The system should be able to respond to a number of different requests quickly and simultaneously.
Maintainability	The system should be easy to maintain.
compatibility	the system should be designed to allow for future upgrades and enhancements as needed.
Estimate cost	the system can help estimate the case costs that should be paid by the clients according to a number of factors such as the complexity, the case type and its required expenses
Generate report	The system should provide different reports such as cases report, clients report and even financial report.

Context Diagram:



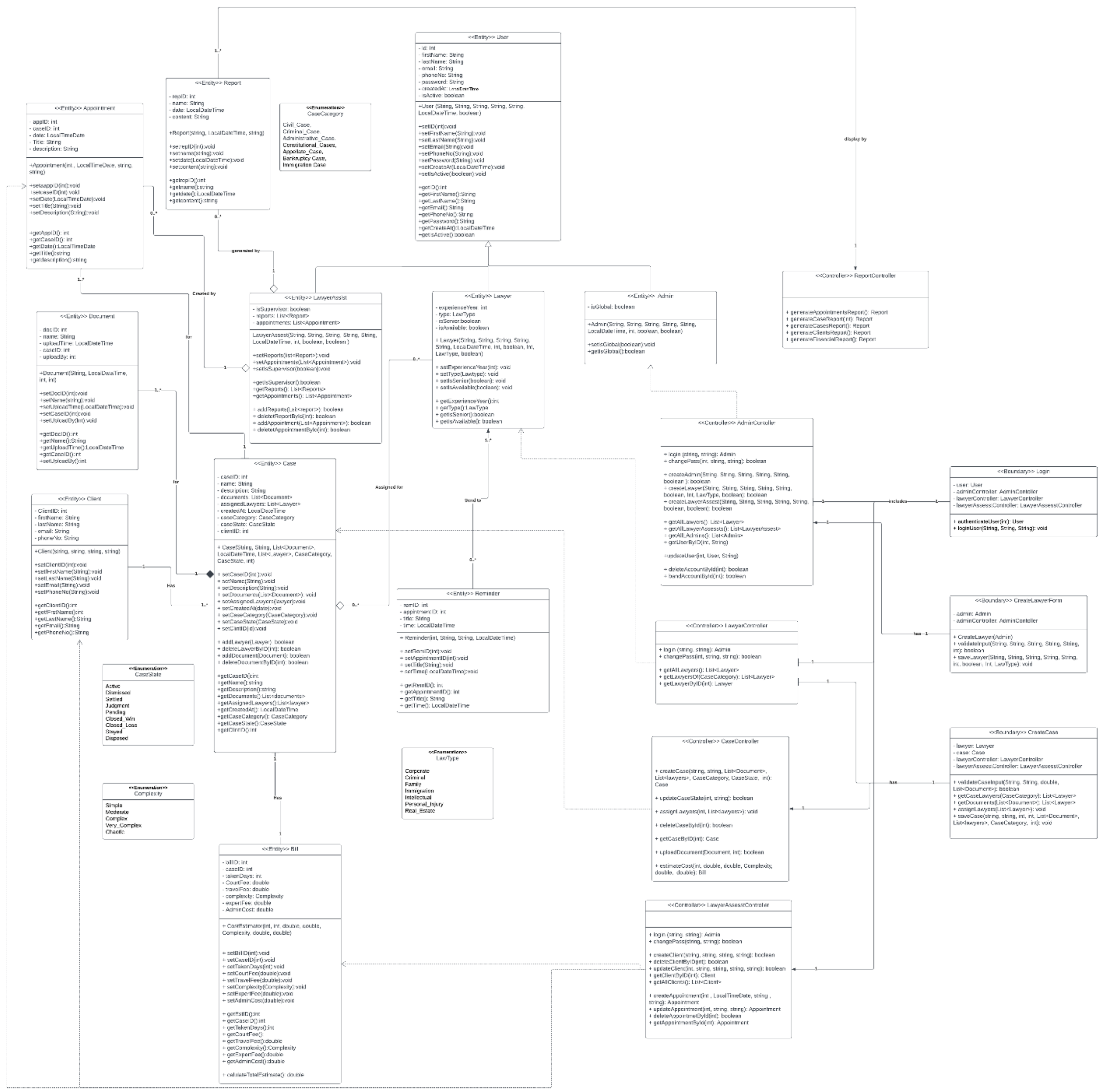
Use Case Diagram:



Use Case Scenario:

ID	219140_227824
Title	Create a case
Description	This use case explains how the Law Firm's senior legal consultant controls every case by adding new cases and changing those that already exist.
Priority	High
Primary actor	Senior Lawyer
Secondary actor	N/A
Preconditions	• The user is logged in. • A client is already made to link them with the case.
Post-conditions	• Case details is already added to the database with its attached files and its lawyers' team successfully.
Main Success Scenario	1. User (Senior lawyer) will navigate to "create case" button and click on it. 2. User will type the name of case as a title in the text field provided. 3. The user will fill the required fields of case data. 4. The user will choose case type from drop-down menu. 5. As the case type is chosen the system will display the suitable lawyers for that case so the that the senior can choose from. 6. The user will assign lawyers to the case. 7. The user then clicks on "Save".
Extensions	1a. The user left the text field empty, the system alerts the user to fill in the field provided before pressing enter to continue. 3a. User enters any invalid data such as invalid case name, system should alert the user to enter the valid data. 3b. User assigned a lawyer that is not available for the case; hence, the system will alert the user to reassign lawyer. 6a. The system failed to save new case due to a failure in connection to the server; hence, system alerts the user to try again.

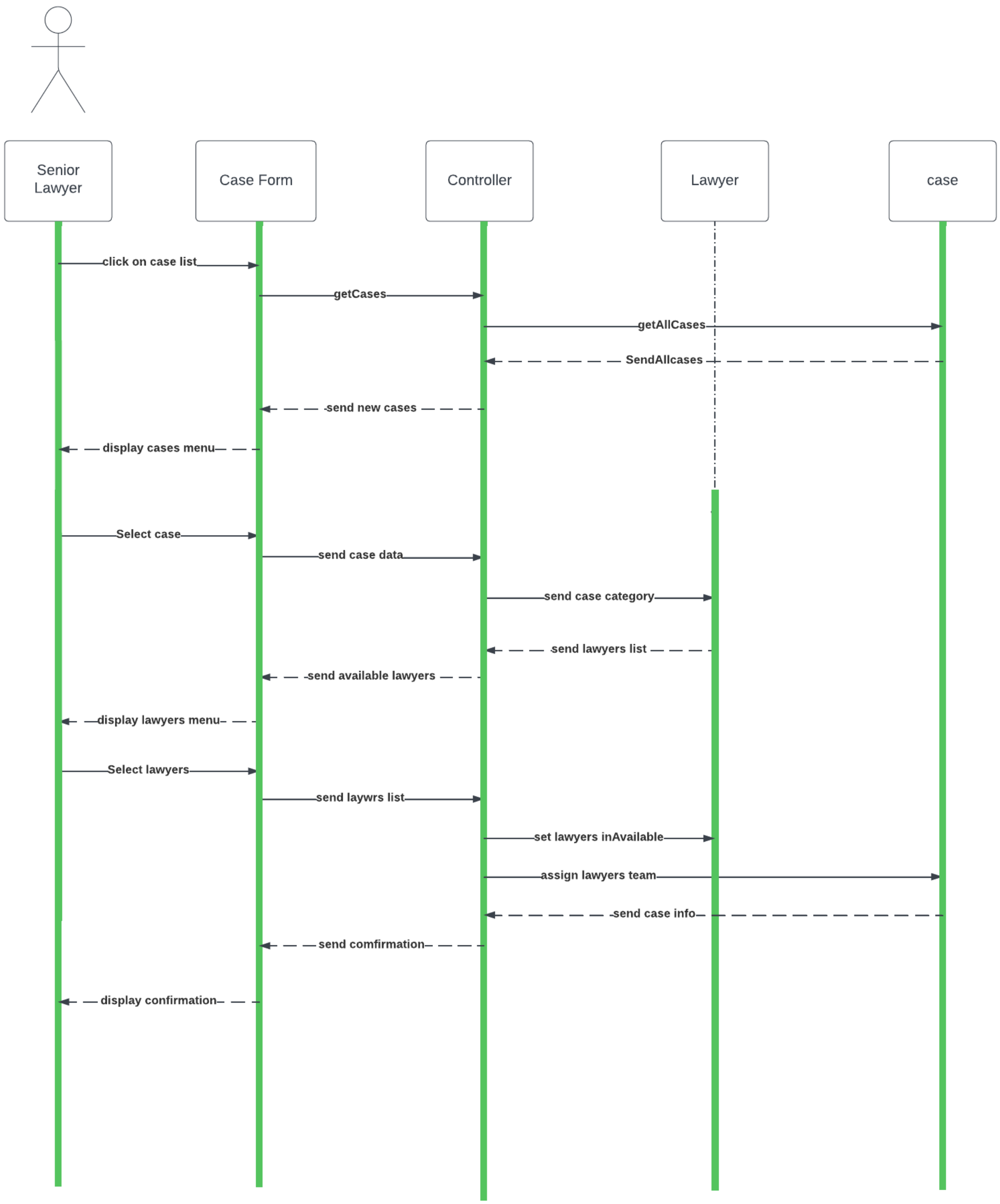
UML Class diagram:



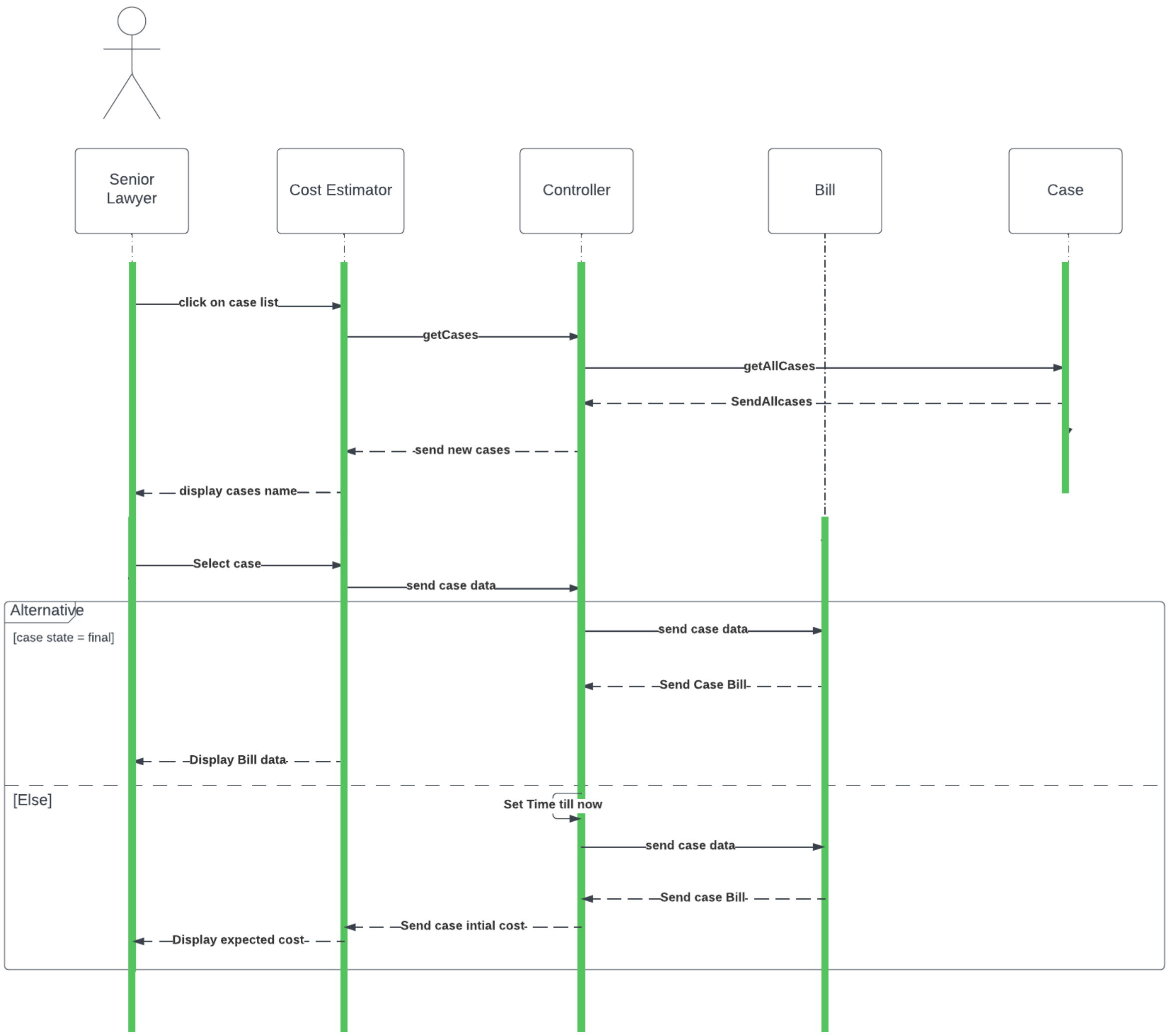
Note: kindly find the attached pdf file of the UML diagrams for a clearer version.

UML Class diagram:

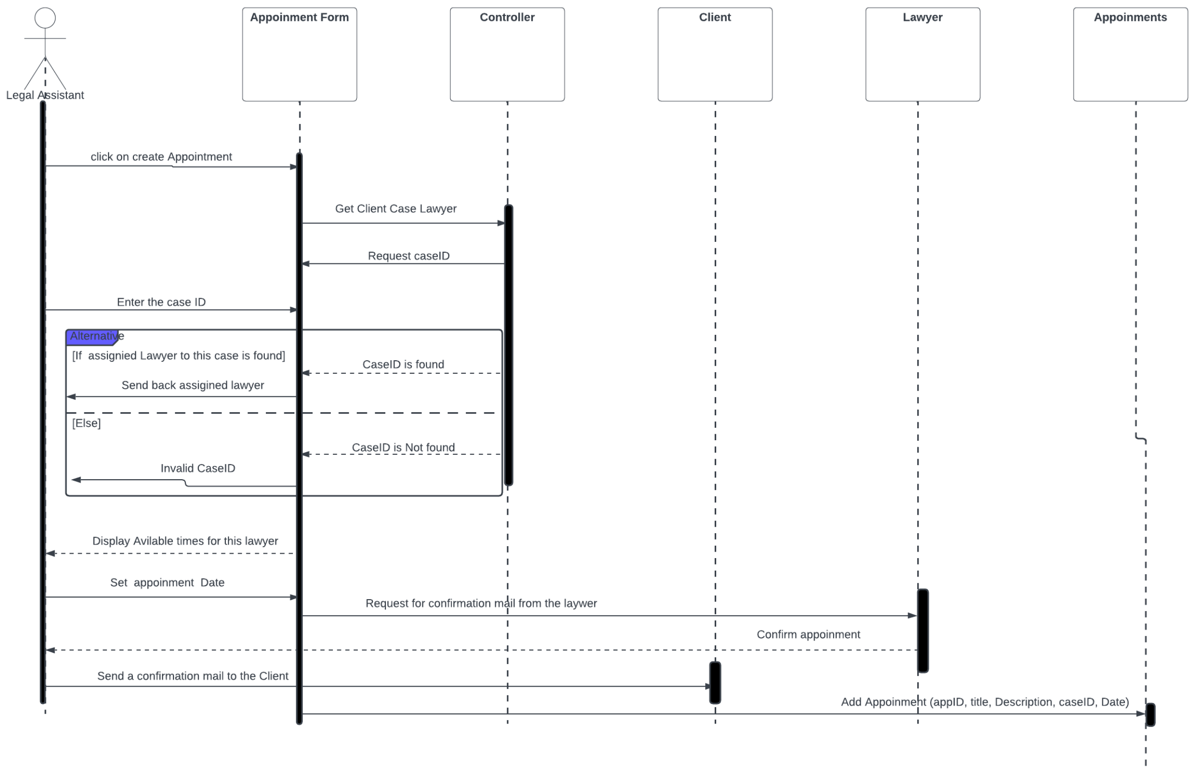
Assign lawyer



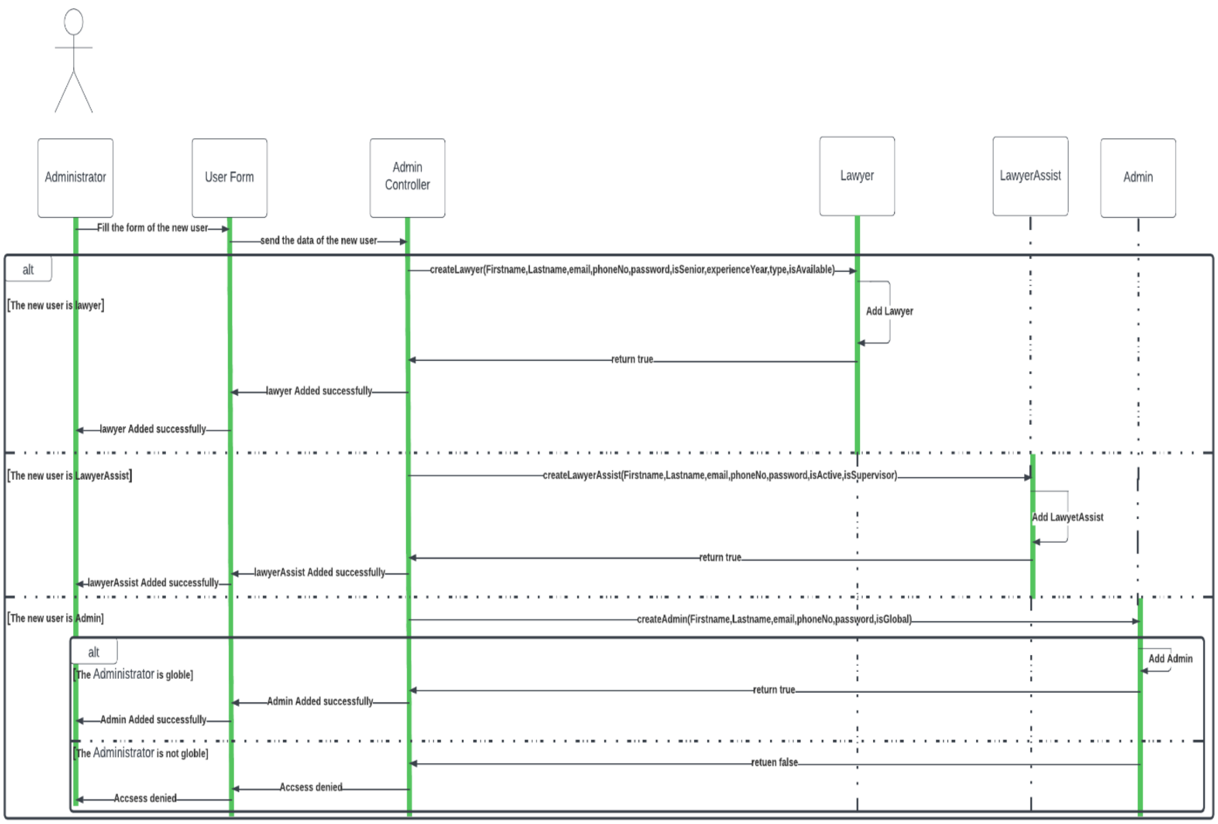
Estimate cost



Create appointment

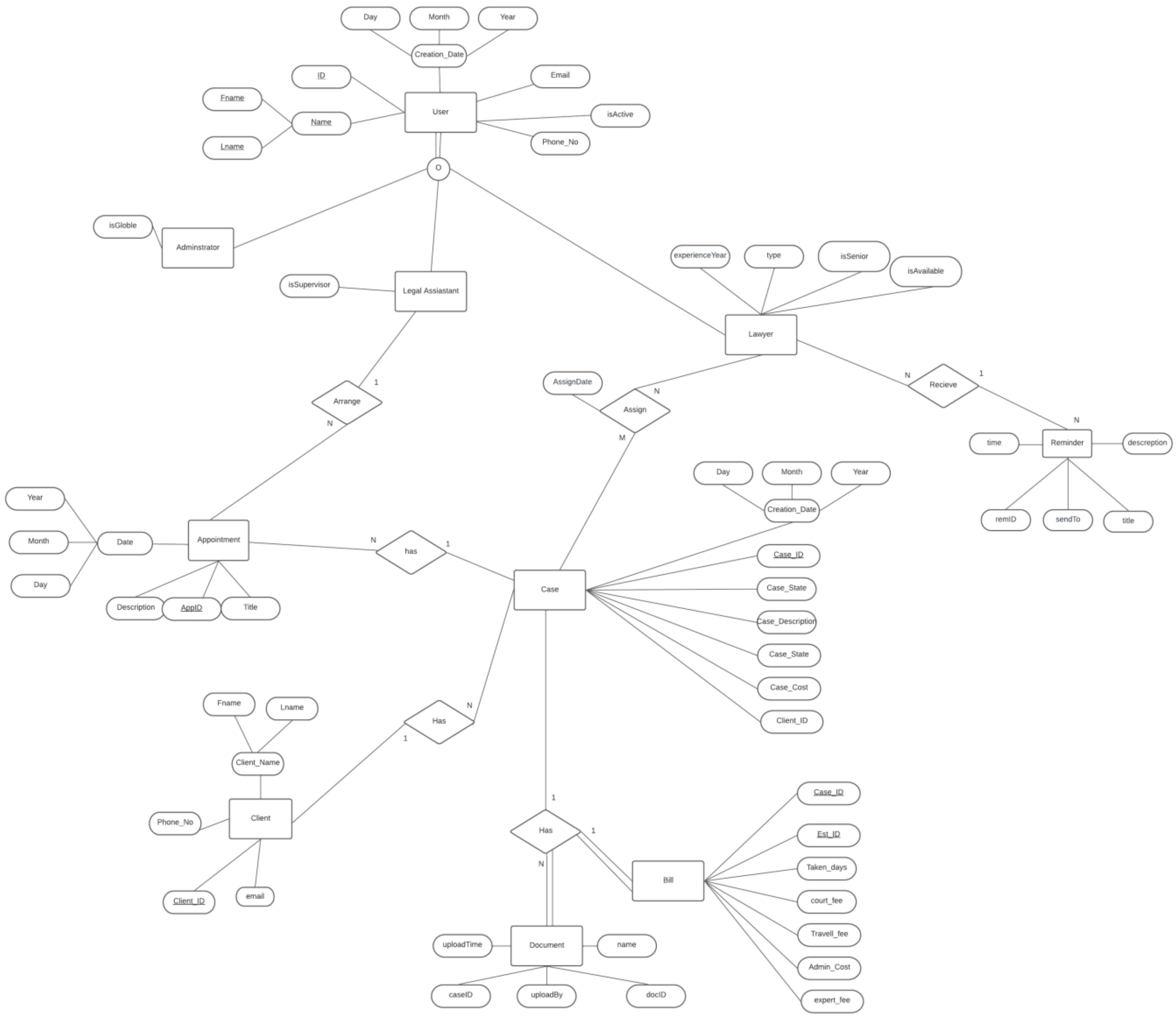


Add Account

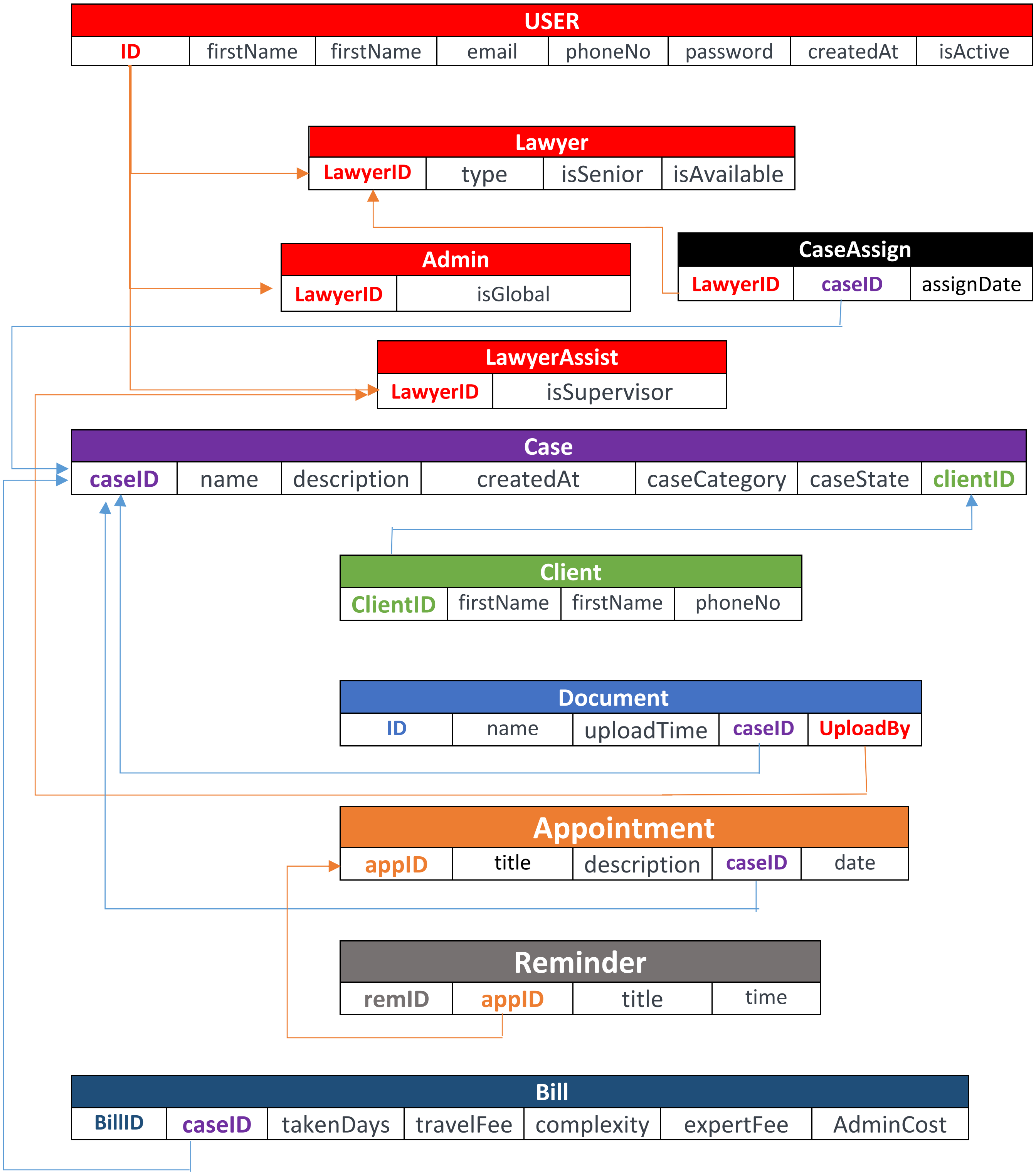


Administrator
User Form
Admin Controller
Lawyer
LawyerAssist
Admin
Fill the form of the new user
send the data of the new user
alt
[The new user is lawyer]
createLawyer(Firstname,Lastname,email,phoneNo,password,isSenior,experienceYear,type,isAvailable)
Add Lawyer
return true
lawyer Added successfully
lawyer Added successfully
[The new user is LawyerAssist]
createLawyerAssist(Firstname,Lastname,email,phoneNo,password,isActive,isSupervisor)
Add LawyetAssist
return true
lawyerAssist Added successfully
lawyerAssist Added successfully
[The new user is Admin]
createAdmin(Firstname,Lastname,email,phoneNo,password,isGlobal)
alt
[The Administrator is globle]
Add Admin
return true
Admin Added successfully
Admin Added successfully
[The Administrator is not globle]
retuen false
Accsess denied
Accsess denied

Database ERD:



Database Schema:



Database EER Diagram: