

DESIGN DOCUMENT

System Requirements

Functional Requirements

User Management

- The system shall allow users to register with a username, password, and email.
- The system shall allow users to log in using their username and password.
- The system shall allow users to update their profile information.
- The system shall allow admins to manage (create, read, update, delete) user accounts.

Case Management

- The system shall allow lawyers to create new cases.
- The system shall allow lawyers to update existing case details.
- The system shall allow lawyers and clients to view case details.
- The system shall allow lawyers to close cases when they are resolved.
- The system shall allow uploading, viewing, and deleting documents associated with a case.

Appointment Scheduling

- The system shall allow clients to schedule appointments with lawyers.
- The system shall check lawyer availability before scheduling appointments.
- The system shall allow clients and lawyers to update appointment details.
- The system shall allow clients and lawyers to cancel appointments.
- The system shall allow users to view their appointment schedules.

Messaging

- The system shall allow users to send messages to each other.
- The system shall allow users to receive and read messages.
- system shall allow users to view their message history.
- The system shall allow users to delete messages.

Feedback and Rating

- The system shall allow clients to leave feedback and ratings for lawyers.
- The system shall allow lawyers to view feedback from clients.

Non-Functional Requirements

Performance

- The system shall support up to 1,000 concurrent users with acceptable response times.
- The system shall provide a response time of less than 2 seconds for user requests under normal load conditions.

Security

- The system shall use encryption for all sensitive data, including user passwords and personal information.
- The system shall implement role-based access control to ensure only authorized users can perform certain actions.
- The system shall log all user activities for auditing purposes.
- The system shall require strong passwords and provide mechanisms for password recovery.
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Usability

- The system shall provide an intuitive and user-friendly interface.
- The system shall be accessible via major web browsers (Chrome, Firefox, Edge, Safari).
- The system shall support responsive design to ensure usability on various devices, including desktops, tablets, and smartphones.

Reliability and Availability

- The system shall be available 99.9% of the time, excluding scheduled maintenance.
- The system shall provide automatic failover to ensure continued operation in case of hardware failure.

Scalability

- The system shall be designed to scale horizontally to handle increased load.
- The system shall support adding more servers or resources to handle additional users and data volume.

Maintainability

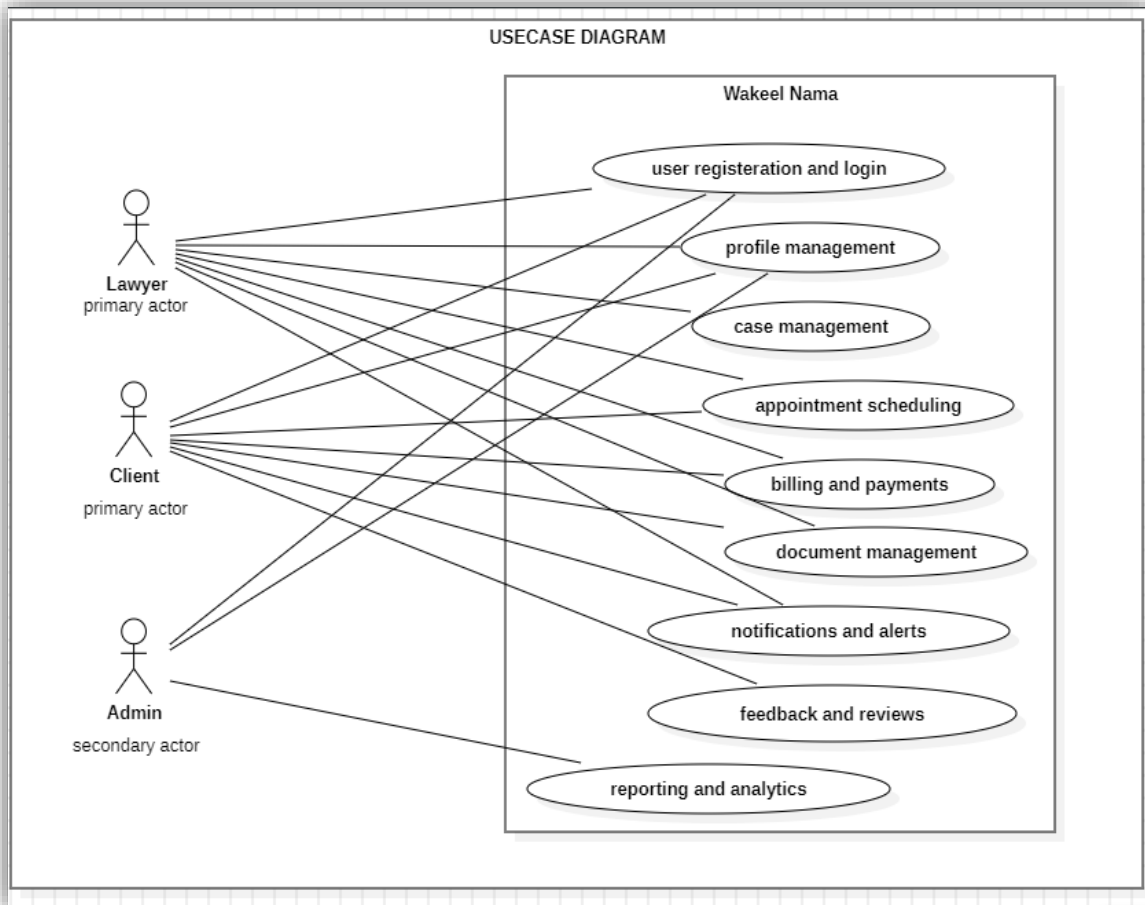
- The system shall be designed with modular architecture to facilitate easy maintenance and updates.
- The system shall provide detailed documentation for both users and developers.

Backup and Recovery

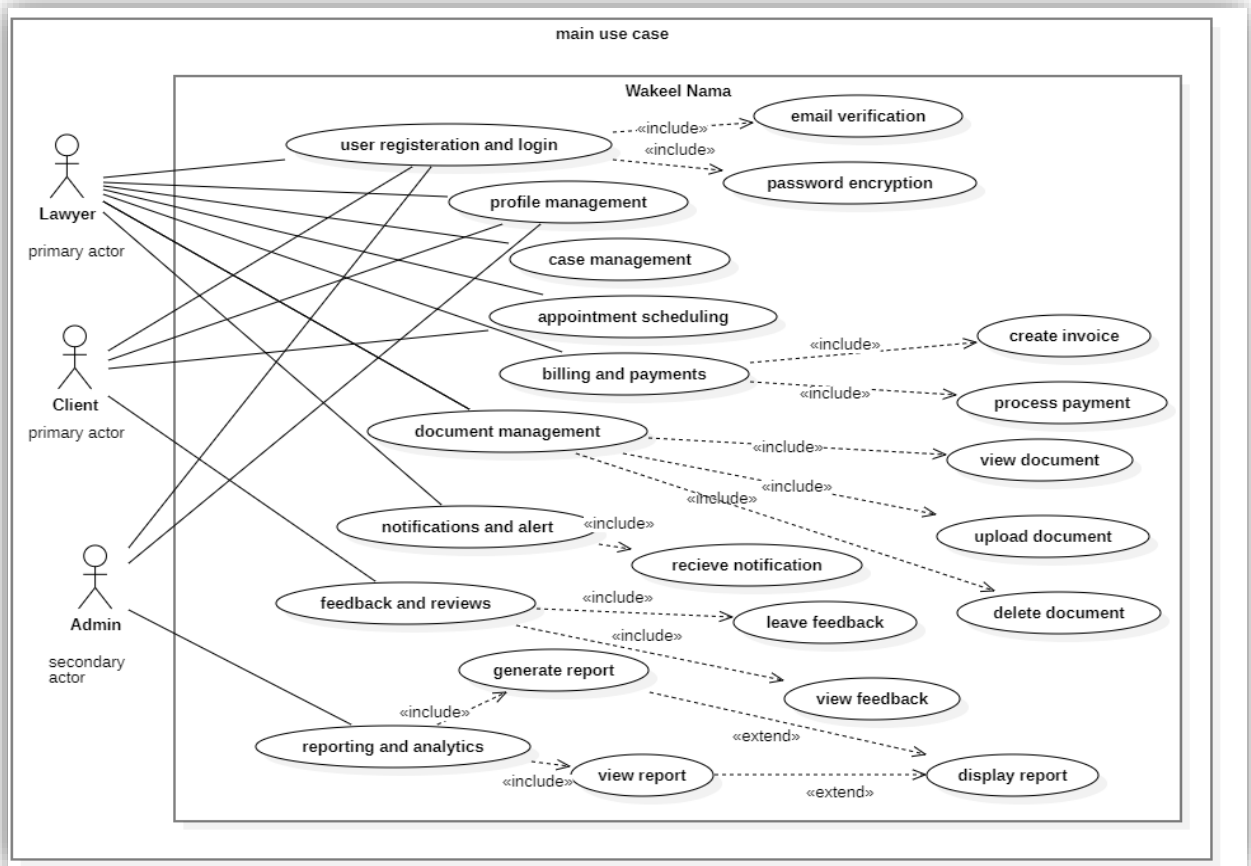
- The system shall perform regular backups of all critical data.
- The system shall provide mechanisms for data recovery in case of data loss or corruption.

These functional and non-functional requirements together ensure that the Lawyers' Portal is not only feature-rich but also reliable, secure, and user-friendly.

use case Diagram



Main use case Diagram



Test Cases for Wakeel Nama (The Lawyer's Portal)

1.User Registration and Login

Use Case	Testcase ID	Description	Preconditions	Test Steps	Expected Results	Post Conditions
User Registration	01	Register a new user	User is not logged in	<ul style="list-style-type: none"> Navigate to registration page. Fill in required details Submit the form. 	<ul style="list-style-type: none"> User account is created User receives confirmation email. 	User can log in.
User Login	02	Log in with valid credentials	User is registered	<ul style="list-style-type: none"> Navigate to login page. Enter valid credentials 3. Submit the form. 	<ul style="list-style-type: none"> User is logged in User is redirected to dashboard. 	User session started.

User Login	03	Log in with invalid credentials	User is registered	Navigate to login page. Enter invalid credentials. 3. Submit the form.	Error message is displayed User remains on login page.	None
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2-Profile Management

Use Case	Testcase ID	Description	Preconditions	Test Steps	Expected Results	Post Conditions
Profile Creation	01	Create a user profile	User is logged in	1.Navigate to profile page 2. Enter profile details 3. Save the profile	<ul style="list-style-type: none"> Profile is created Profile information is displayed. 	Profile is accessible.
Profile Update	02	Update user profile information	User has an existing profile	1. Navigate to profile page 2. Edit profile details 3. Save the changes.	<ul style="list-style-type: none"> Profile is updated Updated information is displayed. 	Profile is updated.

3-Case Management

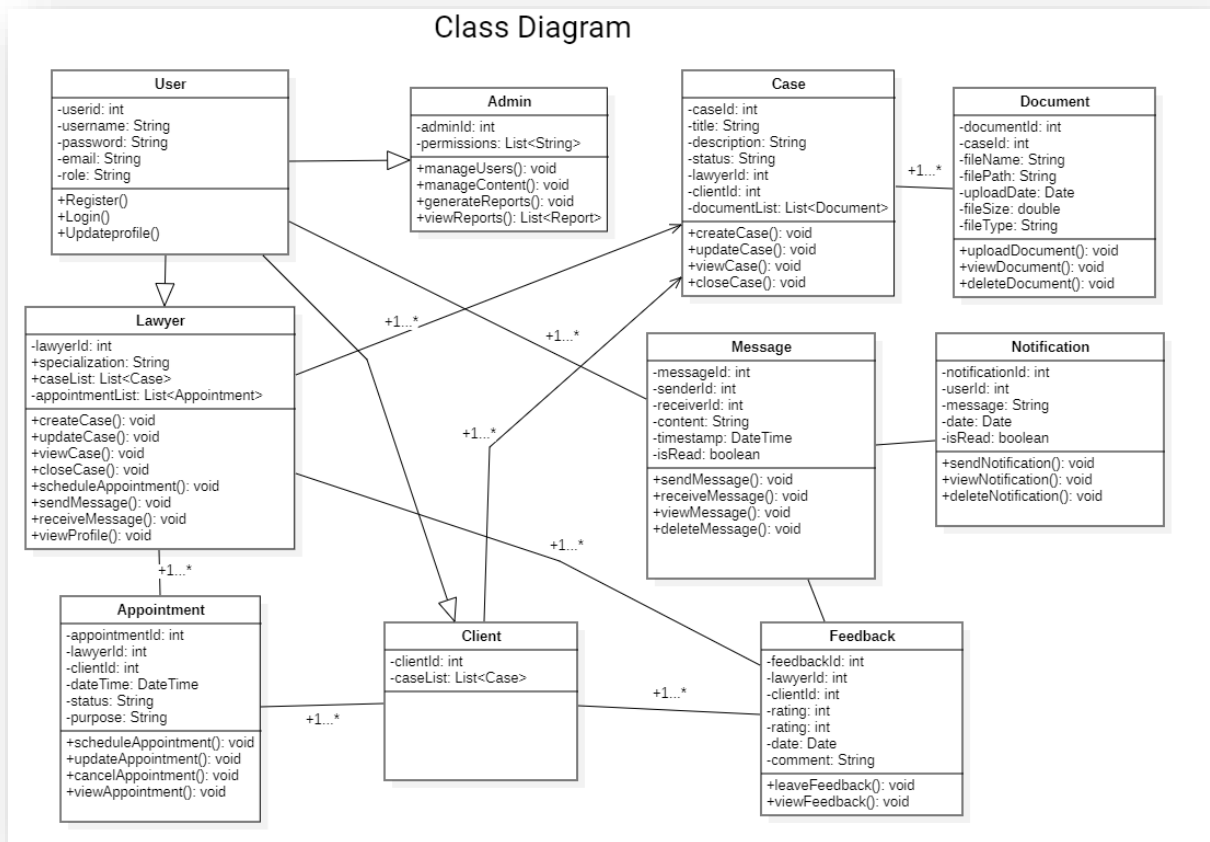
Use Case	Testcase ID	Description	Preconditions	Test Steps	Expected Results	Post Conditions
Create Case	1	Create a new case	Lawyer is logged in	1. Navigate to case management page 2. . Click "Create New Case"	<ul style="list-style-type: none"> Case is created Case details are displayed. 	Case is listed under lawyer's cases.

				3. Enter case details 4. Save the case.		
Update Case	2	Update an existing case	Case exists in the system	1. Navigate to case management page 2. Select a case 3. Edit case 4. Save the changes.	<ul style="list-style-type: none"> Case is updated Case details are displayed 	Case details are modified.
View Case	3	View case details	Case exists in the system	1. Navigate to case management page 2. Select a case.	Case details are displayed.	None

4.APPOINTMENT Scheduling

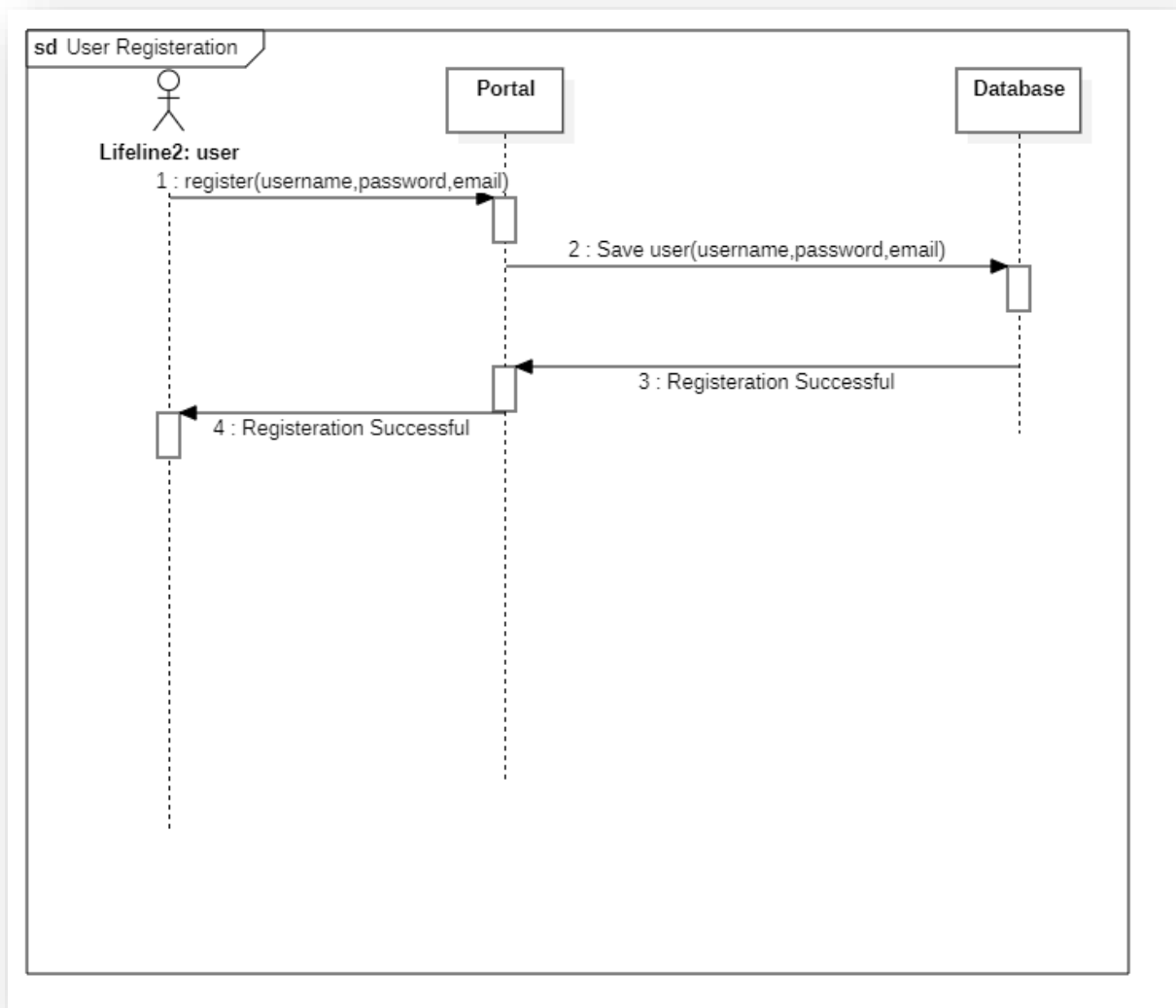
Use Case	Testcase ID	Description	Preconditions	Test Steps	Expected Results	Post Conditions
Schedule Appointment	1	Client schedules an appointment	Client is logged in	1. Navigate to appointment page 2. Select lawyer 3. Choose date and time 4. Confirm appointment.	Appointment is scheduled Confirmation is displayed.	Appointment listed under client's and lawyer's schedules.
Update Appointment	2	Update an existing appointment	Appointment exists in the system	1. Navigate to appointment page 2. Select an appointment 3. Edit date and time. 4. Save changes.	1. Appointment is updated 2. Updated details are displayed.	Appointment details are modified.

Class diagram

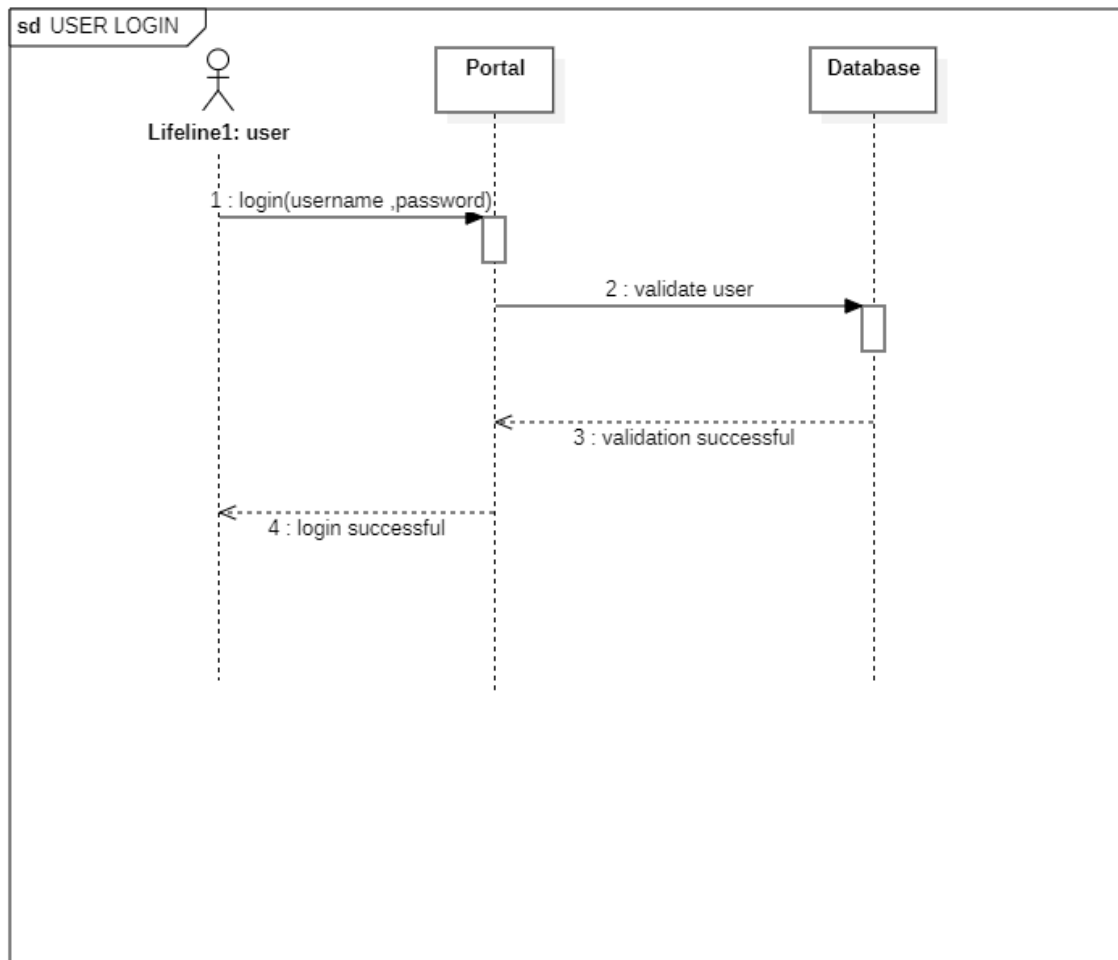


Sequence Diagram

User Registration:



User Login



sd Profile Management

