Sri Lanka Lawyer Management System (SL-LMS)

Project Document

1. Project Title

Sri Lanka Lawyer Management System (SL-LMS)

2. Project Overview / Abstract

The Sri Lanka Lawyer Management System (SL-LMS) is a web-based platform designed to connect clients and lawyers across Sri Lanka efficiently. The system allows clients to search for lawyers based on specialization, location, and language, book consultations, upload case documents, and track case progress. Lawyers can manage client appointments, update case status, and maintain a digital profile verified by administrators. The platform improves accessibility to legal services, ensures secure document handling, and enhances lawyer-client interaction.

3. Objectives

Primary Objectives

- Facilitate easy access to verified lawyers in Sri Lanka.

- Enable clients to book appointments online.

- Allow lawyers to manage multiple cases and schedules.

- Maintain secure and efficient client-lawyer communication.

Secondary Objectives

- Support Sinhala, Tamil, and English languages.

- Provide district-based lawyer search.

- Integrate document uploads and case tracking.

- Ensure compliance with Bar Association of Sri Lanka (BASL) regulations.

4. Scope of the Project

In Scope

- Client registration, search, and appointment booking.

- Lawyer registration and verification.

- Document upload and case tracking.

- Admin dashboard for verification and monitoring.

Out of Scope

- Court case automation.

- Full AI-based legal advice (can be future enhancement).

- Payment integration (optional extension).

5. Stakeholders

- **Clients:** Individuals or organizations seeking legal services.

- **Lawyers:** Registered attorneys in Sri Lanka.

- **Administrators:** Platform moderators and verifiers.

- **Law Firms (Optional):** Manage multiple lawyers under one firm.

6. Functional Requirements

Client

- Register, login, and manage profile.

- Search lawyers by specialization, location, language.

- View lawyer profiles, ratings, and reviews.

- Book appointments (online or physical).

- Upload case-related documents.

- Track case progress and appointment status.

Lawyer

- Register and submit verification details.

- Manage appointments and case assignments.

- Update case status (Filed, Hearing Scheduled, Closed).

- Upload legal documents.

- Communicate securely with clients.

Administrator

- Verify lawyer credentials.

- Monitor user activities.

- Suspend fake or unverified accounts.

- Generate reports on system usage.

7. Non-Functional Requirements

- **Security:** Role-based access, encrypted documents.

- **Availability:** 24/7 access.

- **Performance:** Support for multiple simultaneous users.

- **Usability:** Simple interface for non-technical users.

- **Compliance:** Data privacy and legal regulations in Sri Lanka.

8. System Architecture

Proposed Architecture: Client-Server (MVC)

- **Frontend:** React.js (for responsive UI)

- **Backend:** Node.js + Express.js

- **Database:** MySQL

- **Authentication:** JWT / OAuth

- **Hosting:** Cloud / Local Server

Flow:

```
Client (Browser) → Frontend → Backend → Database → Admin
Verification → Lawyer / Client
```

9. Database Design (Sample Tables)

1. **Users**: user_id, name, email, phone, password, role (Client/Lawyer/Admin), verified

2. **Lawyers**: lawyer_id, user_id, bar_reg_number, specialization, experience, district

3. **Clients**: client_id, user_id, address, NIC

4. **Appointments**: appointment_id, client_id, lawyer_id, date_time, status

5. **Cases**: case_id, client_id, lawyer_id, case_type, status, documents

6. **Documents**: document_id, case_id, filename, file_path, uploaded_at

(You can expand this further depending on requirement.)

10. Use Case Diagram

Actors: Client, Lawyer, Admin
Use Cases: Register, Login, Search Lawyer, Book Appointment, Verify Lawyer, Upload Document, Track Case

(You can draw this in any UML tool like draw.io or PlantUML.)

11. Implementation Plan

Phase	Task	Duration
Phase 1	Requirement Analysis & System Design	1 week
Phase 2	Database Design & Setup	1 week
Phase 3	Frontend Development (React.js)	2 weeks
Phase 4	Backend Development (Node.js/ Express)	2 weeks
Phase 5	Integration & Testing	1 week
Phase 6	Deployment & Documentation	1 week

12. Tools and Technologies

• **Frontend:** React.js, HTML, CSS, Tailwind

• **Backend:** Node.js, Express.js

- **Database:** MySQL / MariaDB

- **Authentication:** JWT, bcrypt

- **Server:** WAMP / XAMPP / Cloud Hosting

- **Version Control:** GitHub

13. Future Enhancements

- Mobile application (iOS/Android)

- Online video consultation

- Payment gateway integration

- AI-based lawyer recommendation

- Court date notifications and reminders

14. Conclusion

The Sri Lanka Lawyer Management System (SL-LMS) will simplify access to legal services, improve efficiency for lawyers and clients, and provide a secure platform to manage legal processes. It is a scalable, user-friendly system aligned with local legal requirements.