

# Legal Aid Matching Platform

## Project Statement

This is a full-stack web platform designed to connect citizens with verified pro bono lawyers and NGOs based on legal case type, location, and expertise. It simplifies case submission, enables secure communication, and tracks the impact of legal aid services through a centralized dashboard. The system integrates public legal directories and supports role-based access for citizens, lawyers, NGOs, and admins.

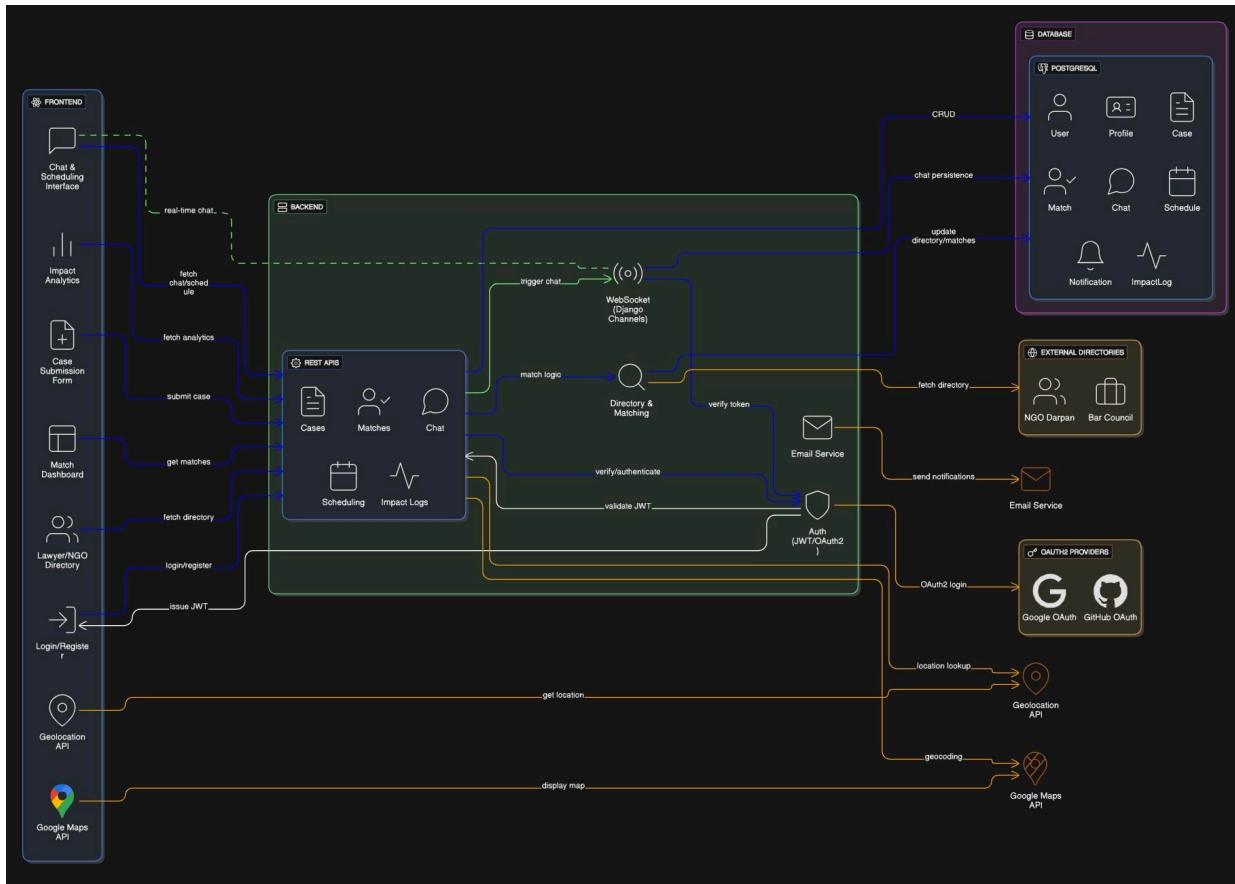
## Outcomes:

- Role-based registration and authentication for citizens, lawyers, NGOs, and admins
- Case submission interface with plain-language input
- Integration with NGO Darpan, Bar Council, and international directories
- Matching engine based on expertise and geographic proximity
- Secure chat and call scheduling between matched parties
- Notification system for matches, messages, and appointments
- Impact dashboard showing resolved cases and network metrics
- Admin tools for verification and system monitoring
- Deployment-ready configuration with PostgreSQL

## Tech Stack

- **Frontend:** React.js + Tailwind CSS
- **Backend:** SpringBoot
- **Database:** PostgreSQL (production), SQLite (development)
- **Authentication:** JWT (access + refresh tokens), OAuth2 (Google/GitHub optional)
- **Maps & Location:** Google Maps API + Geolocation API
- **Real-time Messaging:** WebSockets (secure chat)

## Architecture diagram



## Modules

- **Module A:** Authentication and profile management
- **Module B:** Case submission and directory integration
- **Module C:** Matching engine and communication tools
- **Module D:** Impact dashboard and admin panel
- **Module E:** Final testing, deployment, and documentation

## Milestone

### Milestone 1: Week 1 & 2 —Authentication & Setup

- Define roles: Citizen, Lawyer, NGO, Admin
- Initialize Springboot REST backend and React frontend
- Implement JWT and OAuth2 authentication
- Create registration/login UI and profile CRUD

**Outcome:**

- Auth endpoints
- Role-based login
- Profile management module.

**Milestone 2: Week 3 & 4 — Case Submission & Directory Integration**

- Build citizen-facing case submission form
- Integrate NGO Darpan and Bar Council directories
- Develop searchable lawyer/NGO directory UI

**Outcomes:**

- Case submission form
- Directory ingestion module
- Filterable directory UI.

**Milestone 3: Week 5 & 6 — Matching & Communication**

- Match cases with lawyers/NGOs based on expertise and location
- Build secure chat and call scheduling interface
- Implement notifications for matches and appointments

**Outcome:**

- Matching algorithm
- Chat module
- Notification system

**Milestone 4: Week 7 & 8 — Impact & Deployment**

- Create impact dashboard with metrics
- Build admin panel for verification and monitoring
- Final deployment and documentation

**Outcome:**

- Impact analytics dashboard
- Admin verification tools
- Live demo and documentation

## Database design

