

## **Legal Ease - A Review on Mobile-Based Platforms for Online Advocate Consultation**

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### **ABSTRACT**

This project suggests creating a cutting-edge Android app that will make it easier to locate and speak with advocates online. The application makes it possible for users to quickly look for legal experts by location, specialty, and other relevant factors. After locating an advocate, users can examine thorough profiles that include information about their credentials, fees, and ratings. Additionally, the platform enables smooth online consultations, providing real-time legal advice without regard to location. Advocates can be rated and reviewed by users, fostering an open and reliable community. The app also provides push notifications for new messages and appointment reminders, and it incorporates a secure payment gateway to handle consultation fees. By bridging the gap between clients and legal professionals, this solution seeks to improve accessibility and usability of legal assistance. Among the primary features are video calling.

**Keywords:** Legal Tech, Advocate Finder, Online Consultation, Virtual Lawyer, E-Advocacy, Legal Services App, Secure Payment Gateway, Client-Advocate Connection

### **I. INTRODUCTION**

Technology is changing many industries, including the legal sector, in the current digital era. Accessing legal information can be difficult for many people because of its complexity, expense, and lack of awareness. An Android app called \*Legal Ease\* was created to make legal procedures easier to understand and offer easily accessible legal aid. This application provides automated document processing, case law retrieval, and real-time legal support by combining artificial intelligence (AI) and machine learning. By providing a user-friendly platform for legal research, case tracking, and consultations, Legal Ease seeks to close the gap between clients and legal professionals. Users can effectively search for pertinent statutes, court decisions, and laws using the app. The application Improves the precision of legal queries and answers by utilizing Natural Language Processing (NLP). Democratizing legal knowledge and making it accessible to everyone is one of Legal Ease's main objectives.

### **II. LITREATURE REVIEW**

In this chapter of literature survey of all the latest papers referred for the project report are summarized below.

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"UX Analysis of Legal Analytics Applications at Internal Telkom South Jakarta" by M. D. Ramadhan, S. R. Nehemia, and T. Prasandy Launched on January 27, 2022, Legal Analytics is a digital application that uses the TAM to expedite the process of formulating laws and regulations. By using the Technology Acceptance Model (TAM), this study seeks to determine user interest in the Legal Analytics application and investigate user acceptance. The study employs TAM to examine characteristics that impact user acceptance, including perceived usefulness, attitude toward use, actual system usage, behavioural intention of use, and perceived ease of use. The test results were processed using Smart PLS software.

T. Mayekar, S. Khade, R. Sharma, J. Kirtane, and A. Kale, "LAWTRIX: NLP Powered Legal Revolution," By reducing the distance between citizens and legal professionals, LAWTRIX is a ground-breaking platform that is revolutionizing legal services in India. Its creative, incentive-based architecture seeks to increase the effectiveness and accessibility of legal services. Among the many features offered by the platform are the onboarding of legal service providers, the use of natural language processing (NLP) to translate legal jargon into common language, and a networking and collaboration interface akin to LinkedIn. Legal professionals may connect, work together, and increase their possibilities in the legal area with LAWTRIX's professional networking capabilities.

L. Zhao, A. Abdelhamed, M. S. Brown, and A. Punnappurath, "Encouraging Pixel-Level Authentication of Camera-Captured Images," The authenticity of digital photographs posted online is increasingly challenged due to the proliferation of photo-editing software and generative AI technologies, such as deepfakes, that may change visual content. In order to authenticate photos at the pixel level, this article emphasizes the necessity for in-camera solutions. In order to detect any hallucinated regions, we suggest a "authenticity" mask that would retain extra metadata with every picture. This metadata could then be retrieved and superimposed. Given the important implications of image authenticity in areas such as media and legal evidence, we anticipate that this metadata-driven method will become the norm for any ISP that uses AI. [4]

### III. ANALYSIS OF PROBLEM

For many people, especially those with little financial resources or legal expertise, access to legal services continues to be a major obstacle. With laws, procedures, and terminology that are hard for the average individual to understand, the legal system can be complicated. Finding trustworthy legal counsel or aid without having to pay exorbitant fees is difficult for many people. Furthermore, consumers may find it difficult to obtain legal aid when necessary, due to the lengthy wait times and geographic restrictions associated with traditional legal consultation procedures. Although the emergence of digital technology has revolutionized a number of industries, the legal sector continues to encounter obstacles when it comes to implementing new technologies to increase accessibility.

Many of the current legal service platforms are either too costly, have unintuitive user interfaces, or don't offer enough assistance to customers who are not familiar with the legal system.

Managing cases, effectively answering questions, and reaching a larger audience in need of legal aid are additional challenges faced by legal professionals. The distance between people looking for legal assistance and legal experts could be closed by a centralized and easily available mobile application. An Android app such as Legal Ease seeks to solve these issues by providing an easy-to-use, reasonably priced, and educational platform for legal aid.

The main issue being addressed is the inaccessibility and high cost of legal consulting and information sharing. The answer is to employ mobile technology to develop an app that links users with attorneys, gives legal knowledge, and provides AI-powered support for frequently asked legal questions.

Maintaining current legal knowledge, protecting data, and creating an easy-to-use user interface that can be used by those with little to no legal experience are additional issues. To guarantee the validity and dependability of the legal advice offered by the application, ethical and regulatory compliance issues also need to be taken into account.

The objective of creating Legal Ease is to offer a cutting-edge digital solution that makes it easier to obtain legal

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Volume:02/Issue:01/November-2025

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information, raises awareness, and enables people to make educated legal decisions without needless financial hassles.

### IV. OBJECTIVES

The goal of the Legal Ease Android app is to give people an easy-to-use and accessible platform to help them comprehend legal concepts, obtain legal materials, and get in touch with legal experts. This project's main goal is to close the knowledge gap between the general public and legal information by providing an easy-to-use interface that makes complicated legal terms and processes simpler. Features including a legal dictionary, FAQs on frequently asked legal questions, legal document templates, and a chatbot for basic legal inquiries will all be included in the app. For customers looking for in-depth legal insights, it will also provide case law references and make it easier to navigate through legal provisions.

The project uses Java for the backend, XML for the frontend, and SQLite for data storage in order to guarantee smooth operation and effective performance. In the end, Legal Ease aims to raise legal awareness, encourage independence in managing legal issues, and assist people in making knowledgeable decisions about their legal rights and responsibilities.

### V. SYSTEM REQUIREMENT

The system requirements for a Legal Ease an Android Application includes is:

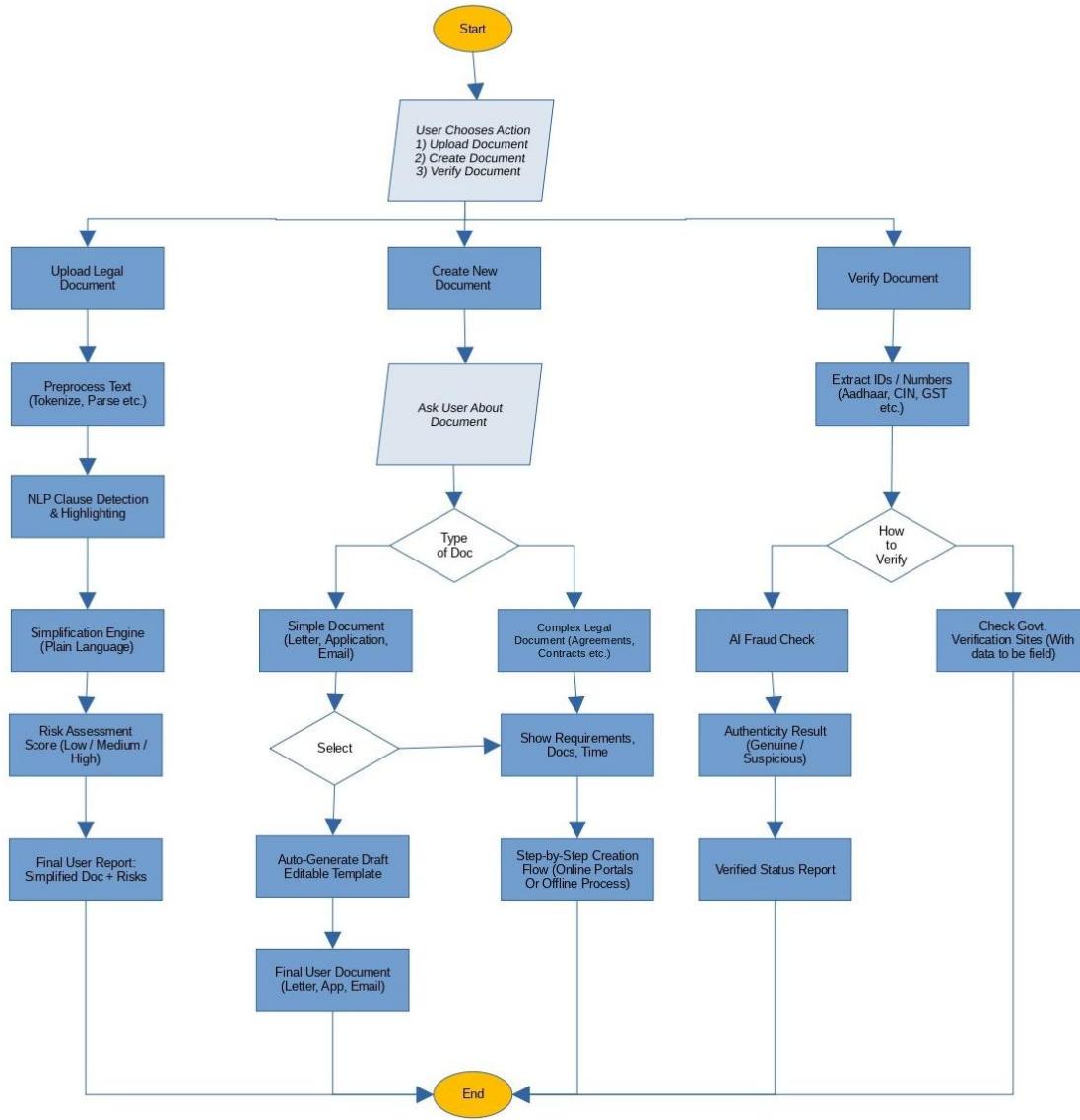
#### Core System Requirements for the Legal System

1. **Document Processing & NLP:** The system must incorporate a robust Natural Language Processing (NLP) engine capable of tokenizing, parsing, and detecting clauses within uploaded legal documents, and then utilizing a Simplification Engine to rewrite the content into plain language.
2. **Risk Assessment & Reporting:** The system must calculate and assign a quantifiable Risk Assessment Score (categorized as Low, Medium, or High) to processed documents and be able to generate a Final User Report that clearly displays both the Simplified Document and the identified risks.
3. **Secure Document Verification:** The system must be designed to extract key identifiers and numbers (such as Aadhaar, CIN, or GST), execute an "AI Fraud Check," and connect to external Client Verification Sites (via APIs) to perform real-time authenticity checks, culminating in a detailed Verified Status Report.
4. **Data Integration & API Connectivity:** The system must support secure, high-speed Application Programming Interface (API) integration with external databases, government portals, or third-party verification services to facilitate instant data lookups and authenticity checks during the verification flow.
5. **Security, Compliance, and Audit Trail:** The system must implement high-level security features, including end-to-end encryption and robust Role-Based Access Controls (RBAC), to protect the sensitive legal and verification data, while maintaining a comprehensive audit trail to ensure compliance with all relevant data privacy and legal regulations.

#### Analysis of Flowchart Components

The "Legal Ease" system requires three primary technical modules to execute its complex workflow:

1. **AI/NLP Engine:** Needed for the Upload Legal Document track, specifically for clause detection, parsing, and text simplification. This module demands high-performance computing (GPUs/TPUs).
2. **Workflow/Template Engine:** Required for the Create New Document track, managing a robust database and templating system to auto-generate legal documents like agreements and contracts based on user specifications.
3. **External API Integrator:** Essential for the Verify Document track, providing a secure module to connect with and log all communication to external, official portals for ID and business verification checks.



**Figure 1: Flow Chart**

## **VI. CONCLUSION**

Through the provision of easily available legal information and services, the Legal Ease Android application seeks to streamline legal help. The application guarantees a smooth user experience and effective SQLite data management with its user-friendly XML-based frontend and Java-powered backend. By assisting users in navigating legal difficulties without the need for rapid professional advice, it improves legal literacy. Important elements including case monitoring, lawyer consultations, and templates for legal documents are included into the app. It closes the gap between users and the legal system by digitizing legal resources. Accessibility for a wide audience is guaranteed by the system's offline capabilities and user-friendly interface. Multilingual help and AI-driven legal advice are possible future improvements. The influence of the software on enhancing legal accessibility is confirmed by the study. Legal Ease has the ability to completely transform digital legal aid with additional development. This study emphasizes how crucial technology-driven legal solutions are to advancing awareness and justice.

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(Open Access, Peer-Reviewed, Technological Journal)**

**Volume:02/Issue:01/November-2025**

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