



**SMART INDIA
HACKATHON
2022**

Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

Ministry of Law and Justice

PS Code: SIH1286

Problem Statement Title: Incentives based Design for onboarding Legal Service Providers such as Advocates, Arbitrators, Mediators, Notaries, Document Writers, etc. on eMarketPlace for extending Legal Services to Citizens in India

Team Name: ENIGMA-X

Team Leader Name: SEPHIN SEBASTIAN E

Institute Code (AISHE): C-9462

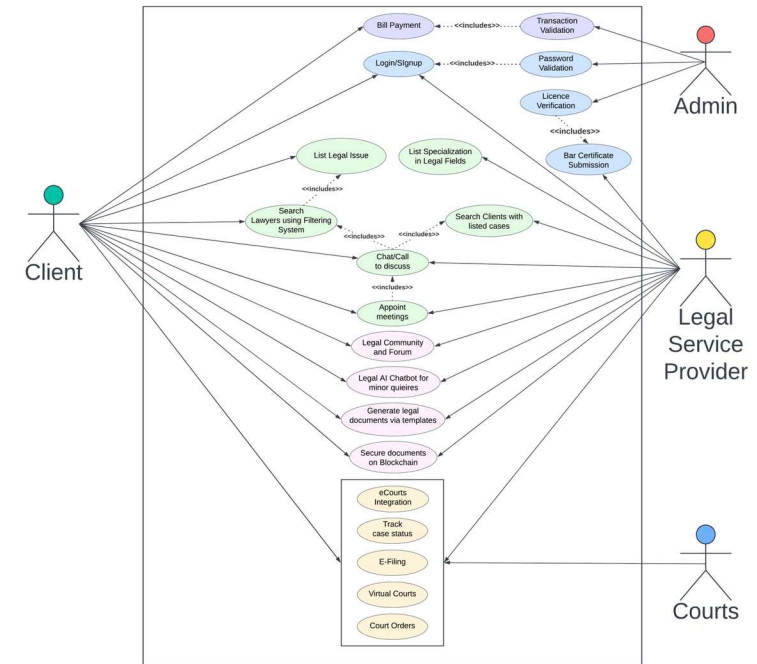
Institute Name: School of Engineering, CUSAT

Theme Name: Miscellaneous

Idea/Approach Details

We are creating a solution by developing a **cross-platform web-based** application which acts as a multipurpose **e-Marketplace** for both the legal service providers and citizens of India. Our aim is to **centralize the entire legal structure** on a **single platform**, which helps people to find lawyers as per their needs, to acquire legal knowledge and to get the **best legal representation**. The prototype will function as follows:

- Clients search for best legal options through efficient **filtering system** and legal professionals look for **clients with cases** who need representation
- Clients can seek for any type of legal service providers — **advocates, arbitrators, notaries, brokers, mediators, document writers** etc.
- 24/7 accessible legal **AI chatbot** ready to be solving any type of queries and doubts
- The application is made available in **32 different languages** and it can also be deployed at Akshaya centres which makes the platform accessible to people from all socio-economic backgrounds
- Proposed **rating algorithm** for legal professionals which takes into consideration performance, client feedbacks, experience, case history and specialization
- Incentivization — **Leaderboards** are published each week that display the top lawyer performances, hence increasing ratings, competition and ultimately their quality of service. This in turn expands their reach and recognition
- **Blockchain technology** is implemented in the application to secure sensitive legal documents on web3 network, raising security and transparency standards
- **Courts and Bar Councils** are integrated in our system to cater for needs of a multipurpose platform and onboarding of whole legal system
- Beneficial for both legal professionals and clients — advocates can expand their **network and reach** while clients can find **best legal representation** with lower costs
- Clients can make use of **legal information** database to increase their knowledge in legal aspects and make informed decisions



Describe your Technology stack here:



Idea/Approach Details

Describe your Use Cases here

- Clients register on the platform and list their legal issue. They search for advocates through a efficient **filtering system** based on legal issue listing, specialization, location, years of experience, and LawBridge **lawyer ratings**
- Clients connect with advocates through **chat/call** and discuss the case. If both parties agree then they can appoint a **meeting** to further sign the **power of attorney** (vakalatnama/contract)
- Advocates register themselves and **look for clients** with cases matching their specialization. This helps solo practitioners to increase their **reach**
- Clients directly pay fees to advocates on the platform using **payment gateway** feature
- Legal AI **Chatbot** helps both clients and lawyers with minor queries, users can also ask questions in **FAQs** section
- Sensitive legal documents and information to be securely stored using **blockchain** technology, furthering transparency and security
- Legal professionals make use of **community forums** to get insights and publish blogs/articles/posts
- **Courts integration** helps with tracking case status, court orders, e-filing and virtual courts
- Users can quickly generate legal documents using inbuilt document **templates** feature

Describe your Dependencies / Show stopper here

- **Provider Participation:** Incentives are proposed to onboard legal service providers on the platform
- **License Verification & Authentication:** Participation of legal authorities is subject to certificate verification by Bar Council's advocate registry
- **Legal Entity Integration:** Courts and Bar Council is to be integrated to the application to provide seamless experience
- **Multilingual support:** The applications provides support for 32 different languages of India, increasing accessibility
- **Blockchain:** Securing documents on blockchain require Ethereum network as main net and Sepolia as test net and is subject to scalability concerns with large amount of data
- **Payment Gateway:** Advocate fees payment by clients to be operated on external payment gateways
- **Chatbot:** Chatbot API based on OpenAI model
- **Regulatory Compliance:** Authorisation and involvement by legal bodies required for project to be implemented
- **Budget Allocation:** Needed for keeping up gas prices on Ethereum/Blockchain network amongst other expenses

Team Member Details

Team Leader Name: SEPHIN SEBASTIAN E

Branch (Btech/Mtech/PhD etc): **BTECH**

Stream (ECE, CSE etc): **IT**

Year (I,II,III,IV): **III**

Team Member 1 Name: ADIL BIN SYED

Branch (Btech/Mtech/PhD etc): **BTECH**

Stream (ECE, CSE etc): **IT**

Year (I,II,III,IV): **III**

Team Member 2 Name: ANNASUSAN MANJALY B

Branch (Btech/Mtech/PhD etc): **BTECH**

Stream (ECE, CSE etc): **IT**

Year (I,II,III,IV): **III**

Team Member 3 Name: CHINMAY V

Branch (Btech/Mtech/PhD etc): **BTECH**

Stream (ECE, CSE etc): **IT**

Year (I,II,III,IV): **III**

Team Member 4 Name: L GOWRI VINOD

Branch (Btech/Mtech/PhD etc): **BTECH**

Stream (ECE, CSE etc): **IT**

Year (I,II,III,IV): **III**

Team Member 5 Name: SRAVAN V S

Branch (Btech/Mtech/PhD etc): **BTECH**

Stream (ECE, CSE etc): **IT**

Year (I,II,III,IV): **III**

Team Mentor 1 Name: Adv K Santhoshkumaran Thampi

Category: **Legal Sector (High Court of Kerala)**

Expertise (AI/ML/Blockchain etc): **LAW**

Domain Experience (in years): **20 years**

Team Mentor 2 Name: Aman Zishan

Category: **IT Sector**

Expertise (AI/ML/Blockchain etc): **Blockchain**

Domain Experience (in years): **3 years**