# Basic Details of the Team and Problem Statement

**Ministry/Organization Name/Student Innovation:**

**Ministry of Law and Justice**

**PS Code: 1285**

**Problem Statement Title: AI-powered Legal Documentation Assistant**

**Team Name: CTRL-ALT-ELITE**

**Team Leader Name: Sarvesh Patil**

**Institute Code (AISHE): C-33895**

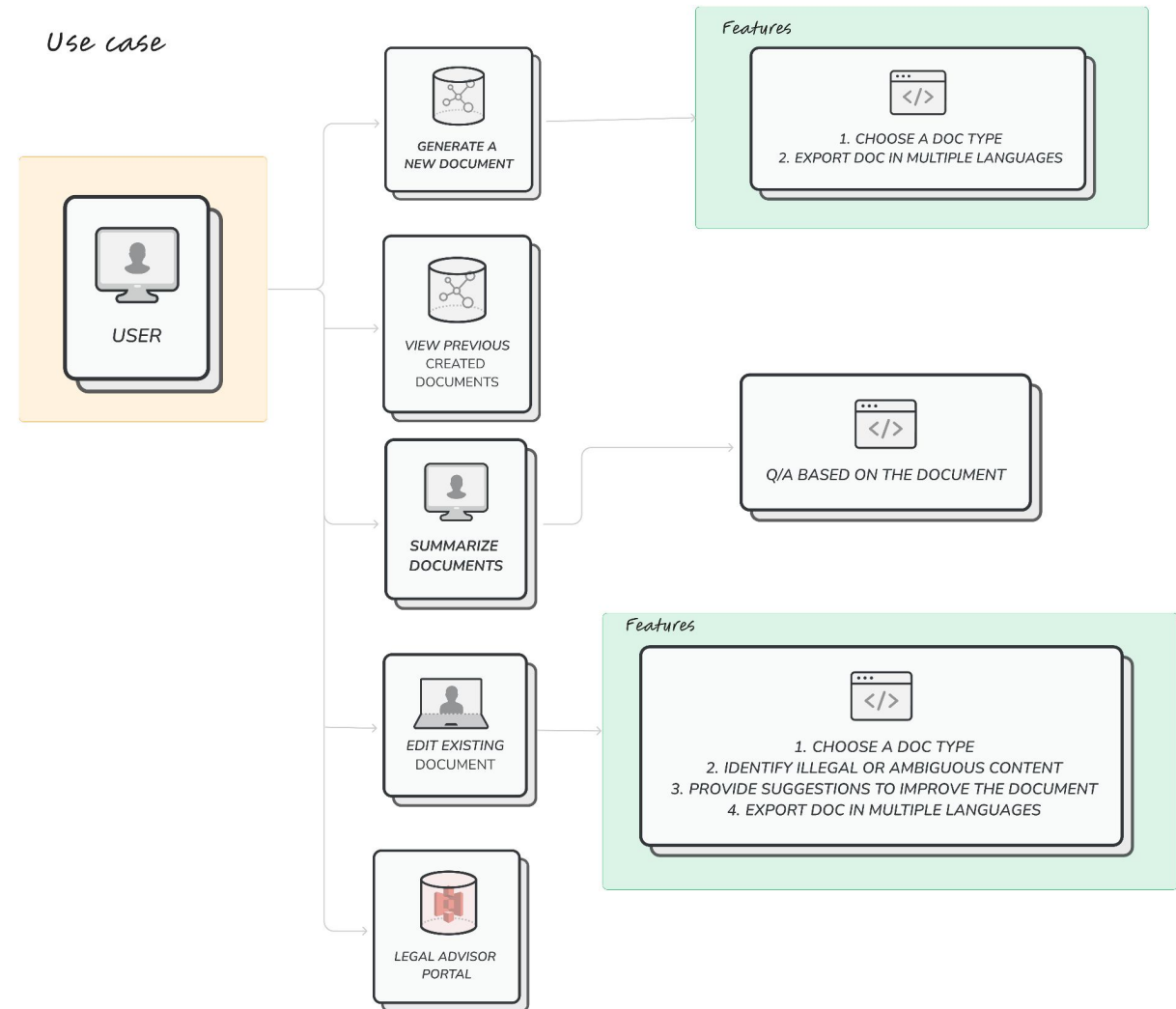**Institute Name: Vivekanand Education Society's Institute Of Technology**

**Theme Name: Miscellaneous**

SMART INDIA HACKATHON 2023
SIH

# Idea/Approach

1. We will create a responsive UI using **Next.js** and **Tailwind CSS**.
2. Utilize **NLP** to generate **customized** documents.
3. Users can select their desired **language**, and we'll **translate** the document using Google Translate API.
4. Users can **upload** their documents for further **editing**, content **analysis**, **improvement** suggestions and **ambiguity** detection.
5. Additionally, we'll offer a **legal advisor portal** with **chatbot** interaction and **expert meeting scheduler**.
6. Users can access their **created documents** on the **dashboard** for easy viewing and management.
7. Use **blockchain** for **decentralized** and **secure storage** of documents.
8. User can ask the **chatbot** questions related to the document and also **summarize** the document using **LLM**.
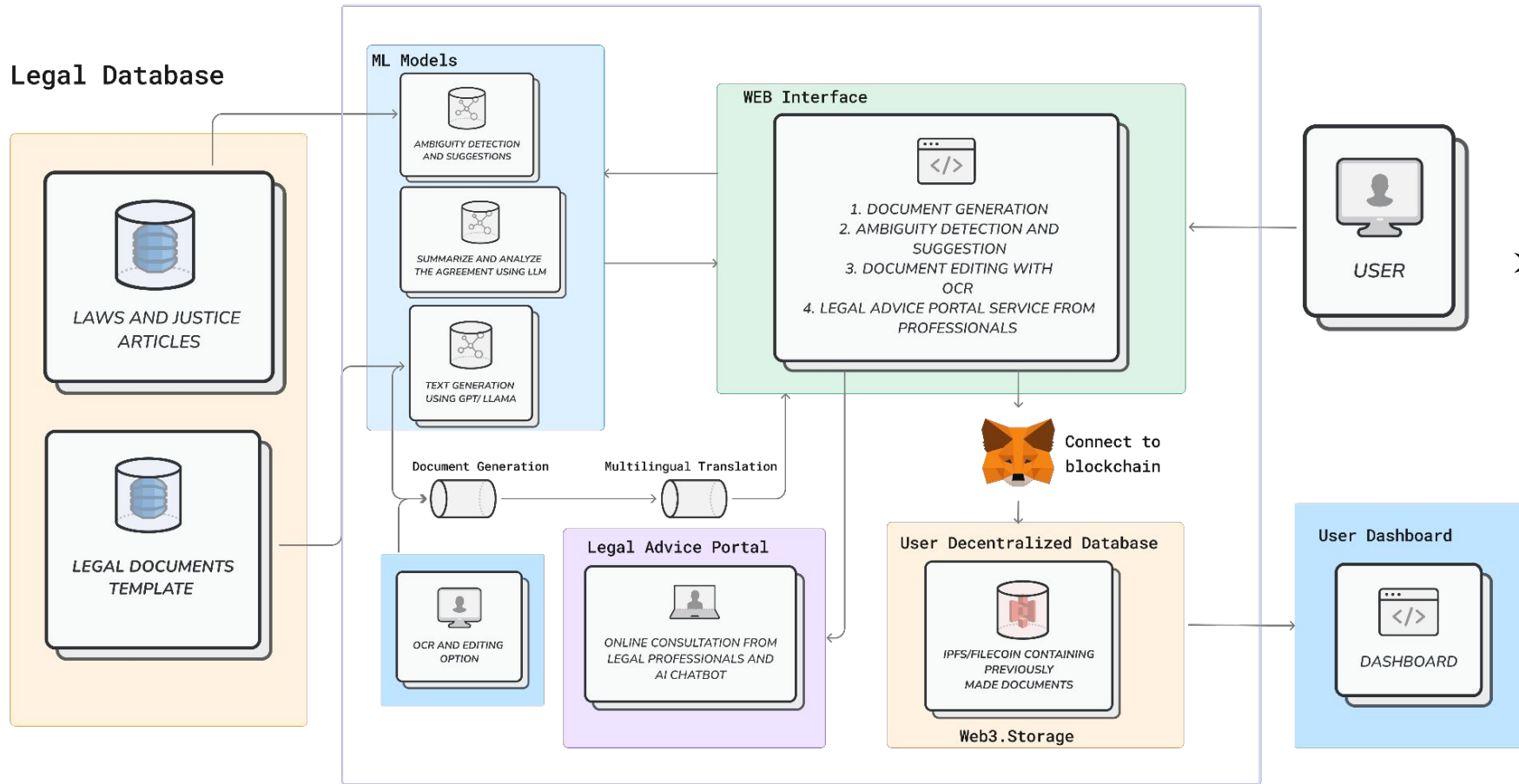
## Video Presentation

Use case

GENERATE A NEW DOCUMENT

Features
1. CHOOSE A DOC TYPE
2. EXPORT DOC IN MULTIPLE LANGUAGES

USER

VIEW PREVIOUS CREATED DOCUMENTS

SUMMARIZE DOCUMENTS

Q/A BASED ON THE DOCUMENT

EDIT EXISTING DOCUMENT

Features
1. CHOOSE A DOC TYPE
2. IDENTIFY ILLEGAL OR AMBIGUOUS CONTENT
3. PROVIDE SUGGESTIONS TO IMPROVE THE DOCUMENT
4. EXPORT DOC IN MULTIPLE LANGUAGES

LEGAL ADVISOR PORTAL

## Use Cases

➢ Rental Agreements
➢ Divorce
➢ Power of Attorney
➢ Loan Agreement

➢ House Sale Agreement
➢ Contract Generation
➢ Legal Wills
➢ Intellectual Property

# Architecture



## Business Model

➢ **Free Model:**
  ○ Per account 5 documents creation
  ○ Store created documents in decentralized database
  ○ Interaction with chatbot

➢ **Plus Model:**
  ○ All benefits of Free Model
  ○ Edit and customize documents
  ○ Scan and edit user documents (OCR)
  ○ Ambiguity Detection and Suggestions
  ○ Legal advice portal
  ○ Multilingual Translation
  ○ Store unlimited documents in decentralized database
  ○ Summarize documents and Q/A based on that document

## Tech Stack

➢ **Frontend:** Next.js, Tailwind Css
➢ **Dev Env:** VSCode
➢ **Blockchain Technologies:** Solidity, Web3.Storage(IPFS), Metamask, Polygon Testnet, Remix, Rainbow-Kit
➢ **AI/ML Technologies:** Sklearn, Pandas, Anaconda, Axios, NextAuth, OpenAI, Llama, LangChain

➢ **Backend:** Python, Flask
➢ **Database:** Firebase

# Team Member Details

**Team Leader Name: Sarvesh Patil**

Branch: B.E                    Stream: Information Technology          Year : IV

**Team Member 1 Name: Atharva Bhoite**

Branch: B.E                    Stream: Information Technology          Year : IV

**Team Member 2 Name: Divisha Gupta**

Branch: B.E                    Stream: Information Technology          Year : IV

**Team Member 3 Name: Hrishikesh Kumbhar**

Branch: B.E                    Stream: Information Technology          Year : IV

**Team Member 4 Name: Shreyansh Singh**

Branch: B.E                    Stream: Information Technology          Year : IV

**Team Member 5 Name: Upendra Falak**

Branch: B.E                    Stream: Information Technology          Year : IV

**Team Mentor 1 Name: Dr. Manoj Sabnis**

Category:  Academic                    Expertise:  AI/ML            Domain Experience: 20 years