



## IT314 - Software Engineering

### Report - Sprint 1

### GROUP - 32 AdvocAi

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## **Users and Stakeholders**

<b>Users</b>	<b>Stakeholders</b>
Individuals and General Consumers	All Users
Small Business Owners	Investors (who invested in the building of this platform)
Professionals in Non-Legal Fields(HR manager, Finance and Accounting Professionals, Real Estate Agents and Property Managers)	Development ,Testing and Product Team
	Legal Professionals and Law Firms (Potential Partners)
	Regulatory Bodies and Government Agencies
	Legal Aid Organizations and Non-Profits

A mix of research, brainstorming, discussion and thinking was carried out to identify users and stakeholders.

# Elicitation Techniques

## 1. Brainstorming method

### 1. Definition

- Brainstorming is a group creativity technique where users/stakeholders come together to generate a wide range of ideas/requirements in a period of time, without immediately judging or evaluating them. It encourages open thinking and free flow of ideas. It helps in exploring new perspectives, and coming up with wild extreme ideas that may not come up in other similar elicitation techniques.

### 2. Why use Brainstorming in our Project?

- Our system covers various domains such as law, technology, business, and user experience.
- Each stakeholder/user can have **different perspectives** which contribute to ideas generation.(e.g: a lawyer cares about accuracy and correctness, while a user cares about simplicity).
- This method allows combining legal expertise with user needs along with checking for technical feasibility.
- The method can help in generating **creative and futuristic features**. (We came up with ideas like this : AI-powered fraud detection, smart contract suggestions, voice-based document explanations, multilingual support and inter-language document conversion).

### 3. Steps for Brainstorming Elicitation

**People in the Brainstorming: (10 people) (virtual meeting)**

**Scribe:** Write's down all the ideas

**Moderator:** Moderates the session

**Participants:** People with legal knowledge, general users(from our group and other general people), developers(from our group)

- We started with some basic questions (like Have you ever faced difficulty in understanding legal documents, what is the worst thing you have experienced with it, has legal language ever feared you, has misinterpreting legal documents landed you in a troublesome situation) so as to make the participants comfortable and to initiate the conversation.

- Everyone spoke about the difficulties they have faced while working with legal documents. We gave time to each individual for saying their own past experiences that they have with legal complexity.
- Then we asked a few questions like what they expect from this type of platform that resolves the problems they have faced and caters their needs.
- Everyone started coming up with their own ideas, based on their creativity and past experiences.
- The scribe noted down all the ideas that came up by all.
- All the ideas that came up were thoroughly discussed taking advice from the legal experts and the developers. Each participant's viewpoints regarding each idea were taken into consideration. They were combined into various groups.
- The ideas were then prioritized based on their necessity, how critical they can be for user experience and adoption, feasibility, legal validity, etc. We also kept in mind the DVF (Desirability, Viability, and Feasibility).
- In some cases voting was used to help achieve consensus.
- Used **MoSCoW** prioritisation method (**Must have, Should have, Could have, Won't Have**) for assessment of ideas.
- Final recorded all raw ideas and final prioritized requirements.

## All Ideas recorded :

(All ideas were captured without judgment — both practical and wild ones)

### A) Document Simplification/Summary

- Complex legal documents, hard to comprehend for common people, can be converted into simple, easy to understand language using AI.
- Highlight the critical clauses in the document that may have high risk legally for the party.
- The voice assistant reads out contract terms in simple words.
- Clause-by-clause video explanations for users.
- Visual summaries (infographics of key obligations, rights, penalties).

### B) Document Generation & Editing

- Standard templates for NDAs, rent agreements, contracts, etc. are modified using AI on the basis of the case provided
- Provides the feature of auto-filling common details (names, dates, addresses) from user profile.
- Allows Multiple users/parties to real-time edit generated legal documents (just like Google Docs).
- Various parties can make suggestions/comments in the documents.

- Suggestions which are accepted by all other parties are added to the documents.
- AI auto-suggests missing legal clauses (e.g., termination clause, dispute resolution).
- Integration with Microsoft Word/Google Docs for import/export.

#### C) Version Tracking & E-signature

- Full version history providing comparison with the previous versions (highlight added/removed clauses).
- Allows moving back to previous versions.
- Provides integration of an e-signature that is legally compliant.
- Multi-party signing workflow (signatures in sequence or parallel).
- To ensure high-stakes contracts cannot be altered or faked, use a secured storage mechanism technology like Blockchain.

#### D) Lawyer/Expert Support

- Help to connect to a lawyer based on the case type/case briefing provided
- Can filter the lawyers on their field of expertise, experience, rating, fees, etc.
- Live chat/video call with a lawyer from within the platform.
- Lawyers can annotate directly on the document.
- Lawyer verification badges/e-signature for trustworthiness.
- Lawyer connect feature for the cases in which escalation is required.
- A separate lawyer portal where they have their own profile, which is verified by the platform, and they are connected to the clients through this.
- Users can schedule appointments with a lawyer.

#### E) Compliance & Security

- Automatic check for legal compliance.
- Secure cloud storage with encryption.
- Role-based access (who can view/edit/sign).

#### F) User Support & Accessibility

- Mobile app version for quick access.
- Chatbot Q&A for “What does this clause mean?”
- Multi-language support (e.g., Hindi, Gujarati, English).
- Voice-to-text for dictating contracts.
- Accessibility features (screen reader compatibility).
- Voice-based querying support.

### Prioritized ideas based on MoSCoW:

Then, we clustered and prioritized using **MoSCoW (Must, Should, Could, Won't Have for now)**.

## Must-Have (Core MVP features)

- Complex legal documents, hard to comprehend for common people, can be converted into simple, easy-to-understand language using AI
- Standard templates for NDAs, rent agreements, and contracts are modified using AI on the basis of the case provided.
- Various parties can make suggestions/comments in the documents
- Version tracking with rollback.
- E-signature integration.
- Lawyer connection feature (at least request/appointment booking).
- Compliance check for mandatory clauses.
- Secure storage & role-based access.

## Should-Have (Next release features)

- Highlighting risky clauses.
- Lawyer annotations inside documents.
- AI suggestion engine for missing clauses.
- Privacy and Security of users' data.

## Could-Have (Innovative add-ons)

- Voice assistant for clause explanations.
- Infographic-based document summaries.
- Voice-to-text contract dictation.
- Live video consultations with lawyers.
- Voice-based querying support.
- Multi-language support (e.g., Hindi, Gujarati, English).

## Won't-Have (For now — future roadmap)

- Blockchain-based document validation.
- Fully automated smart contracts.
- Clause-by-clause video explanations.
- Deep integration with Word/Google Docs (complex and secondary).

## Functional Requirements that we derived from this method :

1. Document Summarizer.
2. Legal Document Generation.
3. E-signature integration on documents.
4. Lawyer connect feature.
5. Version tracking with rollback.
6. Multi-party comments and suggestions.

## Non-Functional Requirements that we derived from this method :

1. Privacy and security of data of users.

### User-Stories :

ID	User Story (Front Card)	Acceptance Criteria (Back Card)
1	As a user, I want complex legal documents to be converted into simple, plain language so that I can easily understand the content without legal expertise.	<ul style="list-style-type: none"> <li>• Summarizes complex legal documents into easy-to-understand language</li> <li>• The document clauses are correctly interpreted, analyzed, and simplified.</li> <li>• The user can further ask for clarifications or a clause-based explanation using the chatbot</li> </ul>
2	As a user, I want to generate legal documents using standard templates personalized based on my case details so that I don't have to draft from scratch.	<ul style="list-style-type: none"> <li>• The system provides pre-built templates.</li> <li>• The AI personalizes templates using the case details provided(e.g., duration, parties, rent, and other details).</li> <li>• Generates customized drafts.</li> <li>• The drafts must contain all the necessary legal clauses as per the case and client requirements</li> <li>• The draft complies with the legal provisions</li> </ul>
3	As a stakeholder, I want to add suggestions and comments on documents so that multiple parties can collaboratively review before finalization.	<ul style="list-style-type: none"> <li>• Users can comment inline.</li> <li>• Changes are tracked using author identity.</li> <li>• Other parties can see the comments and can accept, reject, or further suggest changes to the comments made.</li> <li>• Notifications are sent to the concerned parties when comments are added.</li> </ul>

		<ul style="list-style-type: none"> <li>When all the parties accept the suggested changes, the changes are updated in the generated document</li> </ul>
4	As a user, I want version tracking for legal documents so that I can review change history and roll back to a previous version if needed.	<ul style="list-style-type: none"> <li>Each edit version of the document is stored as a new version.</li> <li>Rollback is possible to any previous version.</li> <li>Metadata (who edited, when) is captured and stored</li> </ul>
5	As a user, I want e-signature support so that contracts can be signed digitally without printing or scanning.	<ul style="list-style-type: none"> <li>Legally valid signatures (e.g., Aadhaar eSign, DocuSign, Stamp) are added to the document as a watermark</li> <li>Data of who e-signed the document, when is stored</li> <li>Signed copy stored securely.</li> <li>E-sign complies with the legal provisions</li> </ul>
6	As a user, I want to request or book an appointment with a lawyer so that I can get expert advice when needed.	<ul style="list-style-type: none"> <li>Users can filter lawyers on the basis of their area of expertise, experience, rating, fees, etc.</li> <li>AI suggests the lawyers on the basis of the case and details provided.</li> <li>Users can request a consultation from lawyers.</li> <li>Lawyers are notified of the request details, including the user and the case details, considering the security and privacy</li> <li>The lawyers can accept/reject for consultation.</li> <li>Appointment scheduling supported.</li> </ul>
7	As a user, I want the system to check if my legal document contains all mandatory clauses so that I don't miss important legal requirements.	<ul style="list-style-type: none"> <li>AI scans for the documents for required clauses as per legal provisions (e.g., in NDA -- confidentiality, jurisdiction).</li> <li>Warns if clauses are missing.</li> </ul>

		<ul style="list-style-type: none"><li>● Suggest the clauses to be added to the document.</li></ul>
8	As an admin, I want secure storage and role-based access control so that sensitive legal documents are protected and only authorized users can view/edit them.	<ul style="list-style-type: none"><li>● Encrypted storage of documents.</li><li>● Role-based access (viewer, editor, admin, lawyer).</li><li>● Activity logs for every access/change.</li></ul>

## **2. Interviews**

**Overview:** We are gathering requirements and expectations from our interviewees/stakeholders

### **Stakeholders to interview :**

- 1) Law students
- 2) Person working in a similar industry ( has worked in training law-related LLM, which translates legal documents in different languages)
- 3) Common People/Users

### **General Interview Scheme :**

- Mode of interview: Voice/Video call, one-to-one interview
- Average duration of interview: 20-30 minutes
- Documentation: Notes

### **Interview Questionnaire:**

- Law Students (GNLU, Nirma, GLS):
  1. What challenges do you face while handling any kind of legal documents?
  2. Do you feel the need for any kind of assistance for the same?
  3. How frequently do you find yourself confused in understanding legal documents?
  4. Would you rely on any kind of AI-powered tool for analyzing such documents?
  5. What concerns do you have if legal documents were to be generated by LLMs (eg:- security, reliability)?
  6. If an option to connect with a legal expert/lawyer is also provided for personalized help in addition to AI features, will it be helpful?
- Person working in a similar industry (Employee working in Sarvam AI, company working on LLM that translates legal documents into local languages) :
  1. How do you handle the hallucination of the model?
  2. What are the main difficulties you face while training the model?
  3. Which type of documents do you feed to the model?
  4. Which format have you specified for the generation of the documents?
  5. How do you maintain the privacy of the clients?
  6. Where do you see AI being used in this law-related industry in the near future?
  7. What is the token limit of the model?
  8. What type of stamp/signature do you use to authenticate the documents?
  9. Where do you gather relevant information from?

- Users/Clients :

1. How do you resolve the confusion regarding any kind of legal queries currently?
2. How often do you face difficulty in understanding legal documents?
3. If you could use a simple app or website to generate a legal document, what features would you expect it to have?
4. Would you find it useful if a system explained legal doubts/queries in easy/layman's language?
5. How important is it for you that a real lawyer verifies the document prepared by AI?
6. What fears or hesitations do you have in using a system that generates documents/summaries using AI?

## **Summary of Interview :**

- 1) Law Students: Law students often struggle with complex language and formatting in legal documents, leading to confusion. They seek assistance, especially simplified explanations and summaries. Many are open to using AI tools but remain concerned about security and reliability. Having the option to consult a lawyer alongside AI is considered very helpful.
- 2) Common Users: Users often rely on friends, online searches, or local lawyers to resolve legal queries, but still face frequent difficulty understanding documents. They want a simple app that generates documents, explains terms in layman's language, and offers lawyer verification. Concerns mainly include accuracy, data privacy, and over-reliance on AI.
- 3) Employee: They gather information from government websites like the High Court Ahmedabad, and many formatting issues faced by them are resolved manually, which will be improved in the future.

## **Functional Requirements :**

1. Document Generation and Formatting: The system shall allow users to generate legal documents through prompts.
2. Document Review and Analysis: The system shall allow users to upload the documents and then give a suitable summary/analysis of the document.
3. Connecting to Lawyers: The system provides a platform for clients to connect to lawyers when facing any kind of difficulty.
4. E-signature and Authentication: The system shall support digital/e-signature and verify the documents.
5. Revenue Opportunities: The system shall provide a premium feature to connect to the Lawyers.

6. User Account & Document Management: The system shall enable users to create accounts and manage their legal documents, which are stored for further use.

## Non-Functional Requirements :

1. Security/Privacy: End-to-end encryption of the data provided by the user for added privacy.
2. Scalability: Handle multiple users simultaneously without crashing.
3. Performance: The system should respond to user interactions quickly without any delay.
4. Transparency: Provide the difference between AI-generated documents and lawyer-verified documents, and give % accuracy.
5. Accuracy: Minimise hallucinations and maintain a threshold percentage of accuracy.
6. Usability: Provide an easy-to-use interface for both lawyers and users.
7. Reliability: Only uses trusted LLMs, and lawyers available on the system are verified personnel.

## User Stories :

### 1. Document Summary:

Front card: As a user, I want the system to explain legal documents in easy language so that I can understand them easily.

Back card: System highlights difficult clauses and provides simple explanations. The system should not mislead users in case of something that the system is unsure about, and suggest that this section might need lawyers' assistance.

### 2. Document Generation:

Front Card: As a user, I want to generate legal documents by providing the necessary inputs so that I can use the generated documents wherever I want to use them.

Back Card: The System should not take a very long time to generate the required documents. The generated documents should be properly formatted as per the jurisdictional parameters.

### 3. Document Verification and Authentication :

Front Card: As a user, I want my generated documents to be verified and signed by experts so that I can trust their legal validity.

Back Card: The system should notify users once verification is completed. The system should provide a proper stamp to barcode/stamp to authenticate the document.

#### **4. Communication with Lawyers/Legal Experts :**

Front Card: As a user, I want to communicate with lawyers/legal experts through the system so that I can get personalized help for my legal needs.

Back Card: The system should provide chat features to communicate with the lawyer. And for further communication contact information of the lawyer will also be provided after the lawyer's consent.

#### **5. Security and Privacy :**

Front Card: As a user, I want my documents and personal information to remain private and secure so that I can safely use the system.

Back Card: All user data and documents must be encrypted end-to-end. Access should require secure authentication.

### **3. Survey**

#### **Definition:**

The Survey Elicitation Technique is a method of collecting structured input from stakeholders through carefully designed surveys. It is used to gather both functional requirements (specific features or services users need) and non-functional requirements (qualities such as trust, usability, and personalization) to guide system design and development. This technique helps in understanding user needs, expectations, and preferences, allowing for the mapping of these insights to system features.

#### **Why We Used This Method**

- **Relevance to Target Users:** Since our platform (AdvocAI) is user-centric, we needed direct feedback from potential users.
- **Scalability:** A single Google Form could reach a large and diverse audience quickly.
- **Balanced Data Collection:** The form had **closed-ended questions** for quantitative analysis and **open-ended questions** for qualitative insights.
- **Ease of Participation:** Stakeholders could respond anytime and anonymously, encouraging more honest answers.
- **Efficient Requirement Gathering:** This allowed us to collect both **functional requirements** and **non-functional requirements** simultaneously.

#### **Detailed Description of How We Did That**

- **Step 1: Preparation**

We defined the objectives of the survey: to understand how users interact with legal documents, their pain points, and the features they would like in AdvocAI.

- **Step 2: Form Design**

- *Legal Document Features:* Difficulty in understanding legal docs, usefulness of summarization, types of documents (contracts, property, business, employment).
- *Lawyer Connection Features:* Preference for risk/highlight extraction, interest in connecting to lawyers, preferred modes of communication, and factors influencing lawyer choice.

- *AI Summariser:* Comfort level in using AI for legal queries, types of assistance preferred.
- *Feedback:* Open-ended questions about challenges, trust factors, and additional suggestions.

## Requirement Extraction

### Functional Requirements (FRs) :-

#### 1. Document Upload & Summarization

- Upload contracts, property, corporate, HR docs.
- Generate summaries with risks, obligations, and key clauses.

#### 2. Lawyer Connection & Consultation

- Option to connect with lawyers after AI summaries.
- Multiple communication modes: chat, call, video, email.
- Filters for lawyer selection: expertise, fees, experience, availability

#### 3. AI Chatbot Assistance

- Provide legal definitions and explanations.
- Step-by-step guidance for simple legal tasks (e.g., NDA drafting).
- Suggest next steps for legal issues.
- Refer to a human lawyer when required.

### Non-Functional Requirements (NFRs) :-

1. **Accuracy & Reliability** – Summaries and chatbot responses must be precise and consistent.
2. **Security** – Ensure private, encrypted storage of documents and secure lawyer communication.
3. **Usability** – User-friendly interface; users should feel confident using AI for legal help.
4. **Performance** – Fast document summarization and chatbot response times.
5. **Scalability** – Handle many users at once; real-time lawyer availability.
6. **Trust** – Clear AI explanations and transparent lawyer profiles (fees, ratings, expertise).

### USER STORIES:-

<b>Front</b>	<b>Back (Acceptance Criteria)</b>
<p><b>As a non-professional user, I want the facility to summarise general contracts and agreements, real estate and property-related documents, business contracts, application forms, and employment/HR documents so that I can easily understand them without wasting my time going through them.</b></p>	<ol style="list-style-type: none"> <li>1. The user can upload contracts, real estate/property docs, business contracts, application forms, and HR/employment docs.</li> <li>2. The system generates a concise summary in plain, jargon-free language.</li> <li>3. File format should be Word or PDF.</li> <li>4. The summary is generated within a reasonable time, say 5 minutes.</li> <li>5. A disclaimer to further consult a lawyer before proceeding with AI's understanding of the document</li> </ol>
<p><b>As a non-professional user, I want to be able to connect and communicate with a lawyer via chat service, audio or video call, or email after generating the AI summary. so that I can feel secure about proceeding with the document.</b></p>	<ol style="list-style-type: none"> <li>1. Users should be able to see an option to connect with a lawyer.</li> <li>2. The user can choose between multiple communication modes: <ul style="list-style-type: none"> <li>o Chat service</li> <li>o Audio call</li> <li>o Video call</li> <li>o Email</li> </ul> </li> <li>3. The system shows available lawyers before the user initiates contact.</li> <li>4. A lawyer must request the user's permission to view the document if it is set to be viewed with access. If set as "anyone can view", then the Lawyer can click on a user's document to see it.</li> <li>5. The user receives confirmation that the lawyer has accepted or scheduled the session.</li> </ol>
<p><b>As a non-professional user,</b></p>	<ol style="list-style-type: none"> <li>1. Each lawyer has a profile section visible to non-professional users. The Lawyer can</li> </ol>

<p><b>I want</b> to be able to see the lawyer's area of expertise, years of experience, fees charged for his/her work, ratings, and reviews in his profile section.</p> <p><b>so that</b> I have a better understanding of who to talk to.</p>	<p>edit his/her profile by clicking on the "Edit" button.</p> <ol style="list-style-type: none"> <li>2. The Lawyer must be required to show proof of their expertise to avoid fake information in their profile.</li> <li>3. Profiles can be searched and filtered by the user.</li> </ol>
<p><b>As a non-professional user,</b>  <b>I want</b> a chatbot that does not reveal my information to any 3rd parties and one-to-one private communication mode with legal professionals</p> <p><b>so that</b> my data is secure and I can feel safe.</p>	<ol style="list-style-type: none"> <li>1. Chatbot does not share any user information with third parties.</li> <li>2. Users have access to a one-on-one end-to-end encrypted communication channel with legal professionals (chat, audio, or video).</li> <li>3. No other users or professionals can access the conversation unless explicitly invited by the user.</li> <li>4. The system displays a clear privacy statement explaining how data is handled and a checkbox for accepting terms and conditions. The Terms and Conditions should be accessible via a link</li> <li>5. Users can request the deletion of their chat history and associated data at any time.</li> <li>6. Logs and transcripts are not accessible to anyone outside the platform's secure environment or to the user unless logged in to the account.</li> </ol>
<p><b>As a legal professional,</b>  <b>I want</b> a feature to create a profile for normal public to view, and a feature to view a document before accepting queries from the person in need</p> <p><b>So that</b> my work goes smoothly and efficiently.</p>	<ol style="list-style-type: none"> <li>1. A legal professional can create and edit a public profile.</li> <li>2. Profile must display at minimum: <ul style="list-style-type: none"> <li>o Area of expertise.</li> <li>o Years of professional experience.</li> <li>o Fees charged</li> <li>o Ratings (average score)</li> <li>o Reviews</li> </ul> </li> <li>3. Reviews (with reviewer details anonymized if needed).</li> </ol>

	<ol style="list-style-type: none"> <li>4. Public users can view the lawyer's profile before initiating contact.</li> <li>5. Legal professionals can accept or decline a query after viewing the document.</li> <li>6. If declined, the user is notified and can choose another lawyer.</li> <li>7. All document previews are secure and accessible only to the intended lawyer.</li> </ol>
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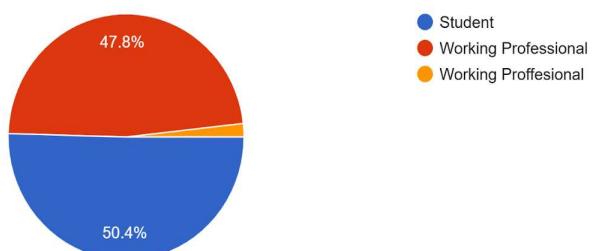
## Survey Responses

We took a comprehensive survey via a Google form, which was filled out by 100+ participants. We asked various questions whose summary is given below.

- The Survey was filled by **people ranging from ages 17 to 58**, with the maximum people being in the age group 19-20 and 53-56
- There was a roughly **even split in the survey between working professionals and students** (Do note that both red and yellow represent the same class (working professionals) the spelling was changed due to an error)

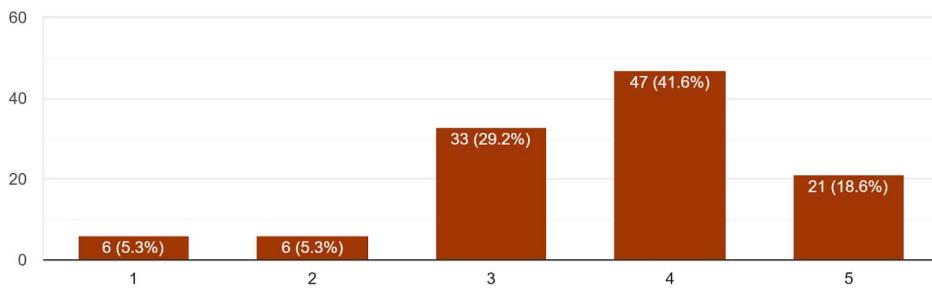
What is your current role?

113 responses



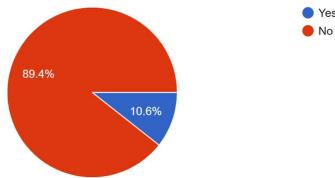
- We Found that a **majority of people find it somewhat difficult to understand the legal documents**

Do you find understanding legal documents difficult? (On a scale of 1 to 5: 1 → No difficulty 5 → Very difficult)  
 113 responses

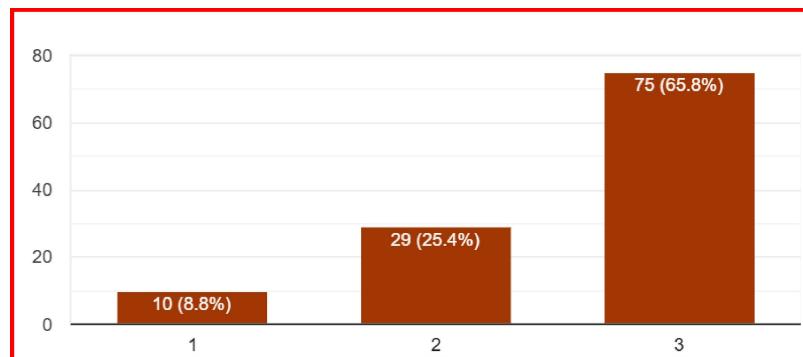


- Majority of the people had **never used an online legal assistance tool**

Have you ever used an online legal assistance tool before?  
 113 responses



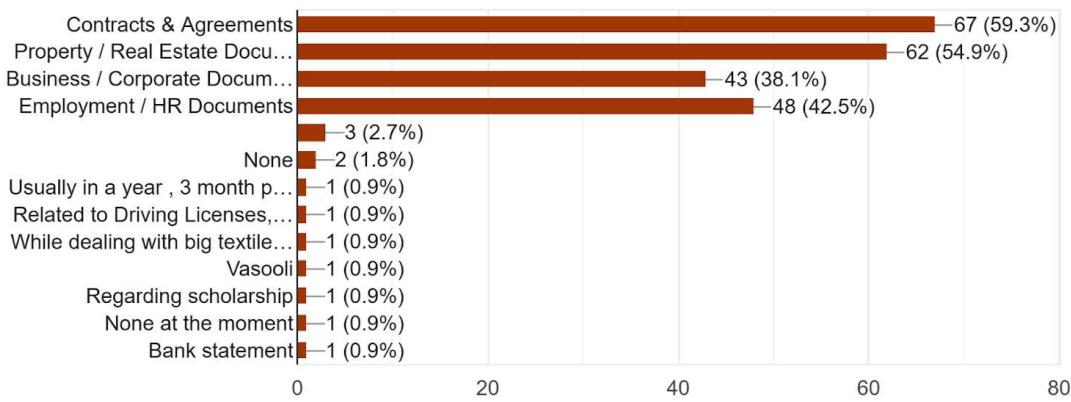
- Majority of the people find that a feature that helps them summarise the documents could be useful



- Majority of the people deal with Contracts & Agreements

What type of legal documents do you usually deal with?

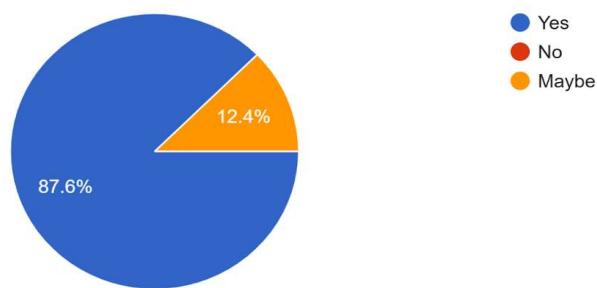
113 responses



- The majority of the people were in favour of AI that highlights **risks, obligations, and key clauses** in the documents. Though none were against it

Would you like the AI to also highlight risks, obligations, and key clauses in the documents?

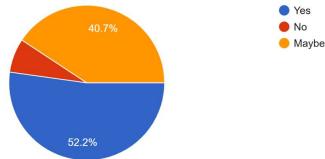
113 responses



- There was a bit of an even split for wanting to directly connect to a lawyer, after reviewing the AI summary

Would you like an option to directly connect with a lawyer after reviewing the AI summary?

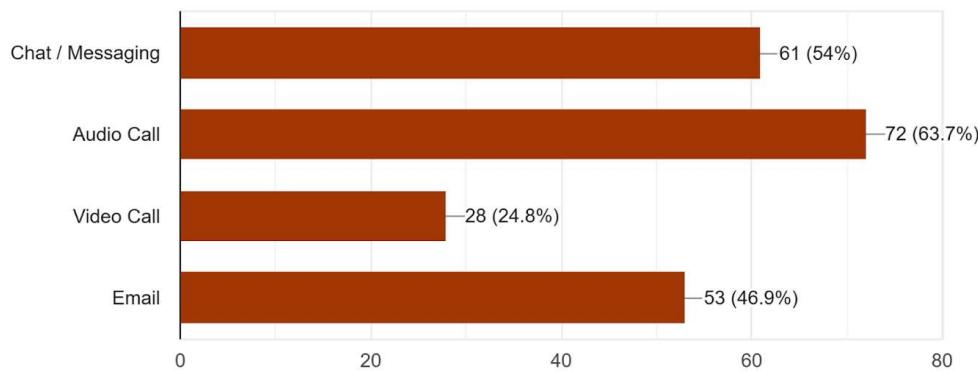
113 responses



- Many prefer an audio call to connect with a lawyer

How would you prefer to connect with lawyers?

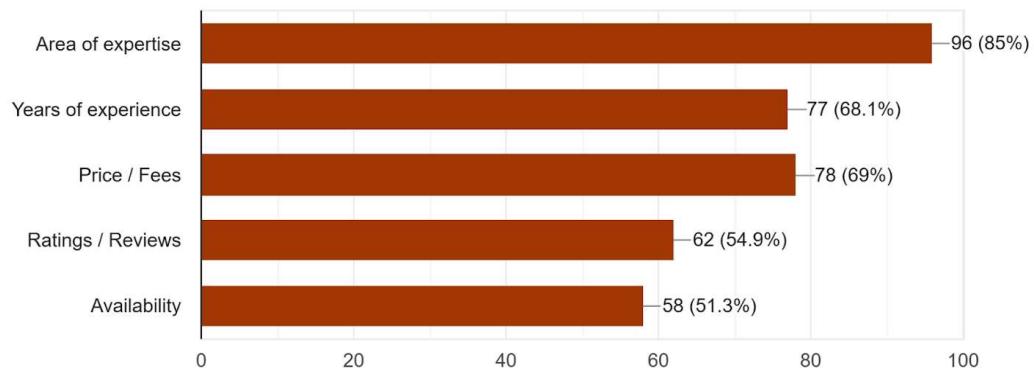
113 responses



- Area of expertise, years of experience and fees were major influencing factors in choosing a lawyer

What factors matter most to you when connecting with a lawyer? (Select all that apply)

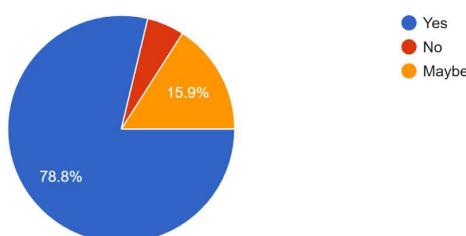
113 responses



- More than a quarter of people felt the need to have a personalised dashboard to track their uploaded documents, summaries, and consultations.

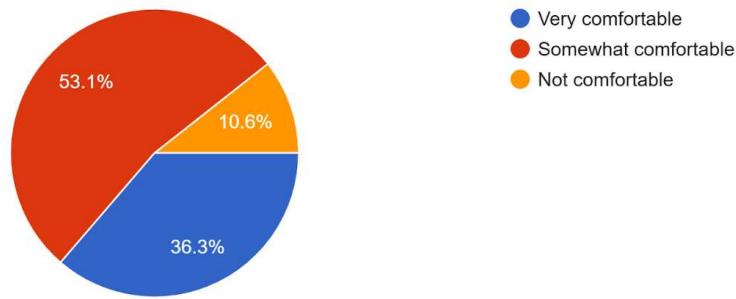
Would you prefer a personalized dashboard to track your uploaded documents, summaries, and consultations?

113 responses



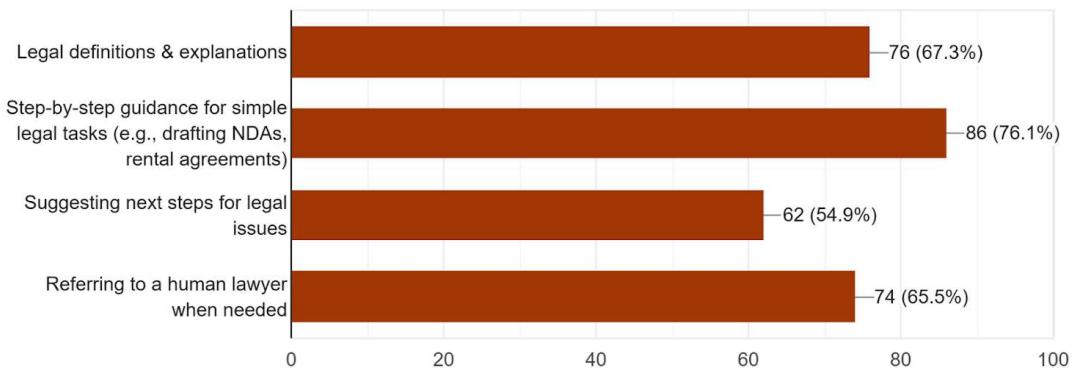
- There was bit of a split between people's willingness to ask a chatbot for basic legal questions

How comfortable would you be using an AI chatbot for basic legal questions?  
113 responses



- Many felt a step by step assistance for simple legal tasks would be the most useful feature of such a product

What kind of chatbot assistance would be most helpful?  
113 responses



## Analysis of User Responses on Advoc AI

### Q1: What challenges do you currently face in accessing legal help?

#### Findings:

From the responses, users face multiple pain points when dealing with legal services. The key challenges can be categorized as follows:

#### 1. Accessibility Issues

- Difficulty in finding the right lawyer with relevant expertise.
- Problems with the availability and scheduling of appointments.
- Long waiting times and time-consuming legal procedures.

#### 2. Knowledge & Comprehension Gaps

- Struggle to understand complex legal terminology and jargon.
- Lack of awareness about the required documents and updated government rules.
- Confusion due to inconsistent or conflicting advice from different lawyers.

#### 3. Trust & Security Concerns

- Fear of encountering fake or untrustworthy lawyers.
- Concerns about data security when uploading documents online.
- Skepticism about whether legal advice will be accurate and reliable.

#### 4. Cost & Resource Constraints

- High consultation fees, even for minor advice.
- Perception of wasted money, time, and effort due to inefficiencies.

#### 5. Process Inefficiencies

- Difficulty in document preparation, digital signatures, and filing.
- Losing track of deadlines, updates, or required procedures.

- Stressful, tedious, and often frustrating user experience.

### **Software Engineering Viewpoint:**

- These insights highlight user pain points (problem domain analysis).
- The challenges indicate a strong need for requirement-driven solutions focusing on usability, accessibility, security, and cost-effectiveness.
- The diversity of responses shows the importance of requirements elicitation from real users before system design.

### **Q2: What features would make you trust an AI-powered legal assistant more?**

#### **Findings:**

**Users expressed both expectations and skepticism. The key trust-building features are:**

#### **1. Transparency & Verification**

- Clear references to legal sources (e.g., government portals, constitution articles).
- Verification or certification by experienced human lawyers.
- Proof, citations, or statistics supporting the advice.

#### **2. Privacy & Security**

- Strong protection of sensitive personal data (no misuse, no third-party access).
- Options to delete files and chat history after usage.
- Explicit user consent before data is reviewed by others.

#### **3. Simplicity & Comprehension**

- Explanations in plain, layman-friendly language.
- Step-by-step guidance on processes, required documents, and next steps.
- Avoidance of heavy legal jargon.

#### 4. Reliability & Context Awareness

- Updated legal knowledge according to the region, state, or country.
- Ability to highlight when human lawyer involvement is required.
- Summaries of pros/cons, risks, and possible outcomes.

#### 5. User Experience

- Ease of use, fast responses, and an accessible interface.
- Interactive, personalized guidance for specific legal issues.

#### Software Engineering Viewpoint:

- These responses reflect non-functional requirements like security, reliability, transparency, and usability.
- Skepticism shows a need for validation mechanisms, such as human-in-the-loop design, where AI advice can be reviewed by a professional.
- Trust is not only a technical quality attribute but also an ethical requirement for AI-based systems.

### Q3: Any additional suggestions or expectations you have from Advoc AI?

#### Findings:

The suggestions provide insights into future enhancements and feature expectations:

##### 1. Data Privacy as the Foundation

- Strong emphasis on safeguarding sensitive personal, business, and financial data.
- Avoiding misuse of identification details (e.g., Aadhaar, PAN).
- Ethical handling of confidential cases (e.g., family disputes, domestic violence).

##### 2. Feature Enhancements

- Voice-based interaction for easier queries.
- Automated drafting of legal documents (in multiple formats and languages).
- Notifications for document expirations and deadlines.
- Guidance on licenses and compliance for new businesses.

### 3. Contextual & Human-Aware Assistance

- AI should explain the legal reasoning behind its advice (laws, sections, references).
- Support multi-language features for inclusivity.
- Sensitivity to emotional and situational aspects (e.g., victim safety in disputes).

### 4. Continuous Improvement & Reliability

- Regular updates to legal knowledge as laws evolve.
- Testing for bias and errors to ensure fairness.
- Providing case-based examples and step-by-step assistance.

#### Software Engineering Viewpoint:

- These inputs represent evolutionary requirements (future scope for system growth).
- Strong user demand for non-functional qualities like privacy, transparency, usability, adaptability, and ethical AI design.
- Expectations highlight the importance of requirements validation and iterative development to align the product with real-world user needs.

## Overall Analysis

**From the survey responses, the following key takeaways emerge:**

- Problem Space: Legal services are currently expensive, time-consuming, complex, and untrustworthy for many users.
- Requirement Space: Users want Advoc AI to be secure, simple, transparent, and context-aware.
- Quality Attributes: The system must focus on privacy, accuracy, usability, reliability, and ethics to gain user trust.

- Risks: Skepticism remains high – many users believe AI cannot fully replace lawyers, especially in sensitive or high-stakes cases.

**In summary, the responses provide valuable insights for requirements engineering, guiding the design of Advoc AI towards a secure, trustworthy, and user-centered legal assistant.**

## 4. Analysis of existing systems

### 1. Technique Description

In our project, we applied the **analysis of existing systems** techniques. That simply involves examining other tools that currently exist in the legal-tech arena, seeing what they can do, and determining both their positives and negatives. Because our project concerns simplifying legal documents for non-lawyers, it was logical to see how others are tackling the same issue.

### 2. Why We Used This Approach

We wanted to use this approach because legal-tech is not a new field. There already exist platforms such as *LegalReview.AI*, *LegalFly*, and *Flair*, which promise to make contracts and compliance documents easier to understand. From examining them, we could:

- Do not reinvent the wheel on features that already exist.
- Observe what is good and should be retained in our system.
- Identify gaps in their offerings that we might be able to fill.
- Understand how we can stand out in an overcrowded space.

A large reason for working this technique out was so that we could test and validate our own feature concept of allowing users to **connect with a lawyer** for uncertainties. Most existing tools work entirely on AI, yet actual users tend to desire **human assurance**.

### 3. How We Did the Analysis

First, we had a few competitor tools such as *LegalReview.AI*, *Flair*, and *LegalFly*. We checked out their websites, product demos, and any reviews available. We then split their features up into three buckets:

- **Core features:** things that all tools had (clause extraction, document summaries).
- **Value-add features:** available in some but not all (collaboration, e-signature support).
- **Missing or weak features:** places where they all seemed to struggle (ambiguity detection, human lawyer connectivity).

We documented these trends and matched them against the objectives of our own system. Wherever we noticed loopholes, we attempted to map them with the things we are going to develop.

### 4. Requirements:

#### Functional Requirements (FR):

- Upload legal documents in various formats.
- Extract prominent clauses (dates, obligations, penalties, etc.).
- Highlight risky or unclear terms.
- Generate plain-English summaries.
- Document version tracking.
- E-signature integration permitted.
- Threaded comment discussions enabled to facilitate collaboration.
- Users connected with a lawyer for expert explanation.
- Export and sharing of documents securely.

## Non-Functional Requirements (NFR):

- High accuracy clause extraction and summarization.
- Stable and reliable performance even with large contracts.
- Secure platform
- Scalable to support multiple users and documents.

## 5. What We Found (Summary Report)

Here's what we learned after studying these systems:

- They are actually very effective at **automation** — pulling out clauses such as dates, obligations, and penalties, and even giving summaries.
- They do have capabilities such as **e-signatures** and occasionally simple collaboration, but these are limited.
- Where they're weak is in **clarity and trust**:
  - None of them does a good job of pointing out ambiguous or high-risk clauses.
  - They all lack a **human-in-the-loop capability**. When a non-lawyer still doesn't get it, they're out of luck.
  - Collaboration features are minimal, often merely "share document," not actual threaded conversations.

## User Stories:

### Story 1

Front of the card:

As a small business owner, I'd like to upload my contract and receive a plain English summary so that I can read it myself without requiring a lawyer for every little thing.

Back of the card:

- The system should allow uploading documents in PDF/Word formats.
- The system should generate a clear, simplified summary.
- Summary must retain critical details such as dates, obligations, and penalties.

## Story 2

Front of the card:

As a startup founder, I'd like uncertain or risky terms highlighted so I don't inadvertently sign on to damaging conditions.

Back of the card:

- The system should flag ambiguous or high-risk clauses.
- Highlighted clauses must be clearly visible.
- Users should receive a short explanation of why the clause was flagged.

## Story 3

Front of the card:

As a compliance officer, I'd like version tracking and comments so my team can stay in sync on legal reviews.

Back of the card:

- The system should store and display different versions of documents.
- Users should be able to compare changes between versions.
- Threaded comments must be linked to specific sections of the document.

## Story 4

Front of the card:

As a user, I want to ask a chatbot direct questions like "What's the renewal date?" so I don't have to read the whole contract.

Back of the card:

- Chatbot should provide contextually accurate answers from the document.
- If the chatbot can't answer, it should suggest alternative actions (manual search or lawyer consultation).

- Answers should reference the original clause for transparency.

## Story 5

Front of the card:

As a client, I want the option to connect with a lawyer directly when the AI's explanation isn't enough, so I feel more secure before signing.

Back of the card:

- The system must provide a "Connect with Lawyer" feature.
- Lawyers should receive the client's query along with the relevant document context.
- Communication must be secure, supporting chat or call options.
- Lawyer responses should be logged for traceability and follow-up.

## Story 6

Front of the card:

As a member of the legal team, I'd like to comment on threads that are collaborative so my team members can comment easily on certain sections of a contract.

Back of the card:

- Users should be able to tag specific sections of the document for discussion.
- Comment threads must support replies, mentions, and notifications.
- All comments should be version-controlled and stored securely.

## Story 7

Front of the card:

As a user, I'd like e-signature capabilities so that I can sign agreements within the same system.

Back of the card:

- The system must integrate with legally compliant e-signature services.
- Signed documents must be securely stored and linked to the original document version.
- Users should receive confirmation after signing.

### Story 8

Front of the card:

As an attorney, I'd like clients' questions sent to me through the system so I can respond quickly and effectively.

Back of the card:

- Lawyers should receive notifications when clients submit queries.
  - The system should display the relevant document context to the lawyer.
  - Lawyers' responses must be secure and logged for accountability.
-

# Functional Requirements

## **1. Document Generation & Formatting**

- The system shall allow users to generate legal documents through prompts.
- The system shall provide step-by-step guidance for drafting simple legal documents (e.g., NDAs).

## **2. Document Upload & Analysis**

- The system shall allow users to upload legal documents in multiple formats (contracts, property, corporate, HR, etc.).
- The system shall extract key clauses (e.g., dates, obligations, penalties).
- The system shall identify and highlight risky or unclear terms.
- The system shall generate plain-English summaries of uploaded documents.
- The system shall provide risk assessment, obligations, and key clause summaries.

## **3. AI Assistance & Chatbot**

- The system shall provide legal definitions and explanations of terms.
- The system shall suggest next steps for resolving legal issues.
- The system shall offer a chatbot to answer user questions about uploaded/generated documents.
- The system shall refer users to a human lawyer when AI support is insufficient.

## **4. Collaboration & Version Control**

- The system shall support multi-party comments and suggestions on documents.
- The system shall enable threaded comment discussions for collaboration.
- The system shall track document versions and allow rollback to earlier versions.

## **5. Lawyer Connection & Consultation**

- The system shall provide an option to connect users with lawyers after AI summaries.
- The system shall allow multiple communication modes with lawyers (chat, call, video, email).
- The system shall provide filters for selecting lawyers based on expertise, fees, experience, and availability.
- The system shall include a premium feature for lawyer consultations.

## **6. E-signature & Authentication**

- The system shall support digital/e-signatures on legal documents.
- The system shall authenticate and verify e-signed documents.

## **7. User Account & Document Management**

- The system shall enable users to create and manage accounts.
- The system shall allow users to securely store, manage, and retrieve their legal documents.
- The system shall enable secure export and sharing of documents.

## **Non-Functional Requirements (NFRs)**

### **1. Accuracy & Reliability**

- The system shall extract clauses and generate summaries with high accuracy.
- The system shall minimize hallucinations and maintain a defined accuracy threshold.
- Chatbot responses shall be precise, consistent, and reliable.
- Only trusted LLMs shall be used, and all lawyers on the platform shall be verified.

### **2. Performance**

- The system shall provide fast document summarization and chatbot responses.
- The system shall remain stable and responsive even with large legal contracts.

### **3. Security & Privacy**

- The system shall ensure end-to-end encryption of all user data and documents.
- The system shall comply with privacy regulations and ensure lawyer-client confidentiality.
- Secure lawyer communication channels (chat, call, video, email) shall be enforced.

### **4. Scalability**

- The system shall support multiple users and documents simultaneously without crashes.
- The system shall handle real-time lawyer availability and consultations at scale.

### **5. Usability**

- The system shall have a simple, intuitive, non-lawyer-friendly interface.
- Both lawyers and clients shall find the platform easy to navigate.

### **6. Transparency & Trust**

- The system shall provide explainable AI outputs with clear reasoning.
- The system shall distinguish between AI-generated content and lawyer-verified documents.
- The system shall display transparent lawyer profiles, including expertise, fees, ratings, and experience.
- The system shall indicate AI accuracy levels (e.g., percentage confidence).

## User-Stories

Title	Front Card	Back Card
<b>1. Document Summary</b>	<p>As a user, I want complex legal documents to be converted into simple, plain language so that I can easily understand the content without legal expertise.</p>	<ul style="list-style-type: none"> <li>Summarizes complex legal documents into easy-to-understand language</li> <li>The document clauses are correctly interpreted, analyzed, and simplified.</li> <li>The user can further ask for clarifications or clause-based explanations using the chatbot</li> </ul>
<b>2. Document Generation</b>	<p>As a user, I want to generate legal documents using standard templates personalized based on my case details so that I don't have to draft from scratch.</p>	<ul style="list-style-type: none"> <li>The system provides pre-built templates.</li> <li>The AI personalizes templates using the case details provided(e.g., duration, parties, rent, and other details).</li> <li>Generates customized drafts.</li> <li>The drafts must contain all the necessary legal clauses as per the case and client requirements</li> <li>The draft complies with the legal provisions</li> </ul>
<b>3. Document Verification &amp; Authentication</b>	<p>As a user, I want my generated documents to be verified and signed by experts so that I can trust their legal validity.</p>	<ul style="list-style-type: none"> <li>The system should notify users once verification is completed. The system should provide a proper stamp to barcode/stamp to authenticate the document.</li> </ul>
<b>4. Connecting to Lawyers</b>	<p>As a user, I want to request or book an appointment with a lawyer so that I can</p>	<ul style="list-style-type: none"> <li>Users can request consultation from lawyers.</li> <li>Lawyers notified with request details including the user and</li> </ul>

	get expert advice when needed.	<p>the case details considering the security and privacy</p> <ul style="list-style-type: none"> <li>● The lawyers can accept/reject for consultation.</li> <li>● Appointment scheduling supported.</li> </ul>
<b>5. Lawyer Profiles</b>	As a user, I want to view lawyers' profiles so that I can contact them and consult with them.	<ul style="list-style-type: none"> <li>● Users can filter lawyers on the basis of their area of expertise, experience, rating, fees, etc.</li> <li>● AI suggests them lawyers on the basis of the case and details provided.</li> </ul>
<b>6. Security &amp; Privacy</b>	As a user, I want my documents and personal information to remain private and secure so that I can safely use the system.	<ul style="list-style-type: none"> <li>● All user data and documents must be encrypted end-to-end. Access should require secure authentication.</li> </ul>
<b>7. E-signature Support</b>	As a user, I want e-signature support so that contracts can be signed digitally without printing or scanning.	<ul style="list-style-type: none"> <li>● Legally valid signatures (e.g., Aadhaar eSign, DocuSign, Stamp) are added to document as watermark</li> <li>● Data of who e-signed the document, when is stored</li> <li>● Signed copy stored securely.</li> <li>● E-sign complies with the legal provisions</li> </ul>
<b>8. Version Tracking</b>	As a user, I want version tracking for legal documents so that I can review change history and roll back to a previous version if needed.	<ul style="list-style-type: none"> <li>● Each edit version of the document is stored as a new version.</li> <li>● Rollback is possible to any previous version.</li> <li>● Metadata (who edited, when) is captured and stored</li> </ul>

<b>9. Mandatory Clause Checking</b>	<p>As a user, I want the system to check if my legal document contains all mandatory clauses so that I don't miss important legal requirements.</p>	<ul style="list-style-type: none"> <li>● AI scans for the documents for required clauses as per legal provisions (e.g., in NDA -- confidentiality, jurisdiction).</li> <li>● Warns if clauses are missing.</li> <li>● Suggest the clauses to be added to the document.</li> </ul>
<b>10. Collaborative Comment</b>	<p>As a stakeholder, I want to add suggestions and comments on documents so that multiple parties can collaboratively review before finalization.</p>	<ul style="list-style-type: none"> <li>● Users can comment inline.</li> <li>● Changes are tracked using author identity.</li> <li>● Other parties can see the comments and can accept, reject, or further suggest changes to the comments made.</li> <li>● Notifications are sent to the concerned parties when comments are added.</li> <li>● When all the parties accept the suggested changes, the changes are updated in the generated document</li> </ul>

## EPIC's :

Epics are a key concept in Agile (Scrum).

An **Epic** is a **large body of work** that can't be completed in a single sprint. It represents a **big feature or theme** of the product. Epics are broken down into **User Stories** (smaller, manageable pieces). Epics are mostly delivered as a set of sprints. Over the course of the development phase, with the help of customer feedback, user stories will be added and removed from the epics as necessary.

The following are the EPICS related to our project with sample user stories.

### **1. Document Simplification**

- Epic: As a user, I want the system to simplify legal documents so I can understand them easily.
- User Stories:
  - As a user, I want to upload a PDF/DOCX of a legal document.
  - As a user, I want the system to provide a detailed summary of the legal documents in the form of bullets, in easy-to-understand language.
  - As a user, I want high-risk clauses in the document to be highlighted with the help of AI.
  - As a user, I want simple definitions to be provided for complex legal terms.
  - As a user, I want to ask the system for further clarifications or clause-wise explanations.

### **2. Document Generation, Editing & Version Control**

- Epic: As a user, I want to create and edit legal documents with AI assistance.
- User Stories:
  - As a user, I want to generate a draft of a legal document on the basis of the case description provided.
  - As a user, I want the standard draft to be customized on the basis of the details provided, using AI.
  - As a user, I want to be able to add, delete, and modify clauses in the generated document with the help of AI as well as manually.
  - As a user, I want AI to suggest grammar/legal corrections.
  - As a user, I want to save and revise drafts.

- As a user, I want each edition of the document to be stored as a different version.
- As a user, I want to be able to roll back to previous versions anytime.

### 3. Collaboration

- Epic: As multiple parties, we want to edit documents together and track changes.
- User Stories:
  - As a user, I want multiple parties to collaboratively work on the same document.
  - As a user, I can suggest changes and make comments in the document that other parties can view, accept, reject, or make further suggestions.
  - As a user, I want to see who made what change, when.
  - As a user, I want to comment on specific clauses.

### 4. E-signature & Security

- Epic: As a user, I want to securely sign documents online.
- User Stories:
  - As a user, I want to digitally sign the documents with authentication, such that it fulfills the legal provisions
  - As a user, I want all signatures logged with timestamps.
  - As a user, I want the e-signature to be added as a watermark to my document.
  - As a system admin, I want encryption to secure sensitive data.

### 5. Lawyer Connection

- Epic: As a user, I want to connect with lawyers for case-specific help.
- User Stories:
  - As a user, I want to browse lawyers by specialization.
  - As a user, I should be able to filter lawyers on the basis of expertise, experience, rating, fees, etc.
  - As a user, the system should suggest to me lawyers on the basis of the case description provided, using AI.

- As a user, I want to chat with a lawyer securely.
- As a lawyer, I want to review client documents.

## Sprints

A sprint is a short, time-boxed period when a scrum team works to complete a set amount of work. It generally lasts from one to four weeks

The following are the sprints for our project:

### **Sprint 1**

Our sprint 1 covers the development of the basic interface and functionality for the epics Document Summary, Document Generation, and Lawyer Connect.

- User can log in/sign up on the website
- The user can upload the legal document in PDF format, and a basic summary will be provided for the document
- Users can ask the AI document generator to draft a legal document by providing basic information about the type of case, and a basic template for the case will be provided.
- Users can view lawyers along with their field of expertise, experience, contact details, etc. They can contact the lawyer using the details provided on their own.

### **Sprint 2**

Our sprint 2 will be considering further expansions to the above-mentioned features

- The complex legal terms are explained to the user using definitions in simple, easy-to-understand language.
- The user can further ask for clarifications, clause-based explanations, by providing inputs to the AI using chat
- The document generator customizes the standard templates on the basis of user details and case briefing provided with the help of AI
- The user can add, modify, or delete any of the clauses in the generated document, either manually or by providing prompts to the bot with AI assistance

### **Sprint 3**

Sprint 3 consists of making the features more advanced

- The system provides the user with the high-risk clauses that may lead to legal complications from the document provided by the user.
- Each edit versions of the document are stored as a different version of the document, and the user can anytime rollback to the previous versions of the document
- The user can filter the lawyers by their area of expertise, experience, fees, rating, etc.
- The AI helps users find the best lawyer based on the case details provided.
- The user can request e-signing of the generated documents

## Sprint 4

Final advancement of the features

- Multiple parties can collaboratively make suggestions/comments on the generated documents.
- All the parties can view, accept, reject, or further suggest changes to the comments.
- The comments accepted by all the parties are updated in the document.
- Users can request to connect to a lawyer via the platform.
- A lawyer can view the request from the user, the case details, and the document, and accept/reject the consultation.

## Conflicts :

Epic A	Epic B	Conflict	Resolution
Document Generation, Editing & Version Control	Collaboration	Multiple people can edit the same draft simultaneously, which may lead to version conflict.	Implement real-time collaborative editing with version control and change tracking.
Document Generation, Editing & Version Control	E-signature & Security	E-signing an incomplete draft which is being edited may lead to incomplete signed document	The document should be finalized before signing it.
Document Simplification	E-signature & Security	Simplified summaries might omit clauses critical for legal signing, causing compliance risks.	Ensure all high-risk clauses are always highlighted and included in summaries before signing.

## **POC (Proof of Concept) Report :**

**Objective:** The objective of our POC for Sprint 1 was to design a simple basic user interface for our various features such as document summary, generate legal documents and lawyer profile and connect as per our sprint 1 specifications, before moving into more detailed development. Along with that we developed webpages for the necessary features such as home page/ landing page.

**Work we did:** As part of this POC, we developed wire-frames of the following pages:

- Home/Landing page
- Login Page
- Signup Page
- Document Generation
- Lawyer Connect
- My Documents
- Lawyer Profile

Along with it we developed a basic webpage for the home page/landing page.

The intent was not to build complete features, but to confirm that our chosen approach is presentable and the interface

**Frontend Prototype:** A simple home page was created using React with CSS for styling.

**Figma Wireframe Link :** [Link](#)

**Github Repository Link:** [Link](#)

## Concept poster :

Innovating for People | Activity Templates | Concept Poster

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**WHAT IS THE CONCEPT CALLED?**

# AdvocAi

" One Stop Solution For Legal Assistance "

**WHO IS IT FOR?**

For individuals seeking legal clarity.

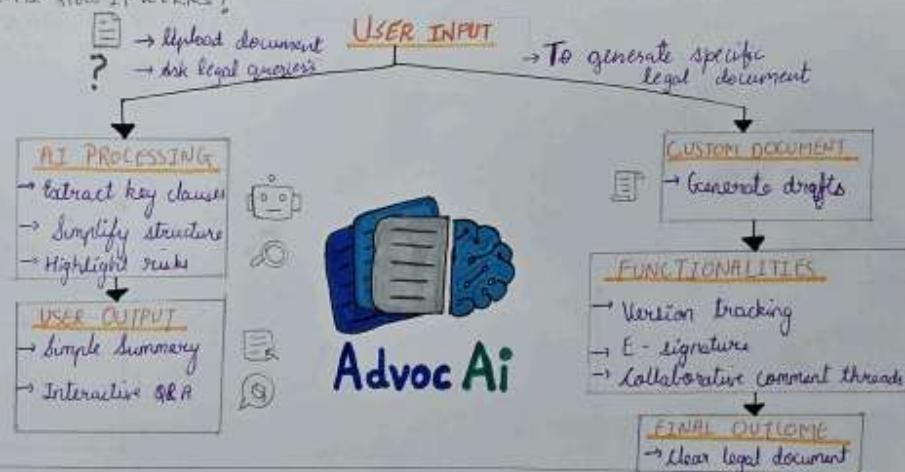
**WHAT PROBLEM DOES IT SOLVE?**

It solves the problem of legal complexity, confusion and high costs.

**WHAT IS THE BIG IDEA?**

To make legal information clear, accessible and affordable for everyone.

**ILLUSTRATE HOW IT WORKS?**



```

graph TD
    A[USER INPUT] -- "Upload document  
Ask legal queries" --> B[AI PROCESSING]
    B -- "Extract key clauses  
Simplify structure  
Highlight risks" --> C[USER OUTPUT]
    C -- "Simple summary  
Interactive Q&A" --> D[CUSTOM DOCUMENT]
    D -- "Generate specific legal document  
Generate drafts" --> E[FUNCTIONALITIES]
    E -- "Version tracking  
E-signature  
Collaborative comment threads" --> F[FINAL OUTCOME]
    F -- "Clear legal document" --> G[Advoc Ai]
    
```

The flowchart shows the process from user input to final outcome. It starts with 'USER INPUT' (Upload document, Ask legal queries), which leads to 'AI PROCESSING' (Extract key clauses, Simplify structure, Highlight risks). This leads to 'USER OUTPUT' (Simple summary, Interactive Q&A). From there, it goes to 'CUSTOM DOCUMENT' (Generate specific legal document, Generate drafts), then to 'FUNCTIONALITIES' (Version tracking, E-signature, Collaborative comment threads), and finally to 'FINAL OUTCOME' (Clear legal document). The central element is 'Advoc Ai', represented by a brain icon.

**WHY MIGHT IT FAIL?**

- May misinterpret complex legal details due to limited review
- lack of user trust and adoption.

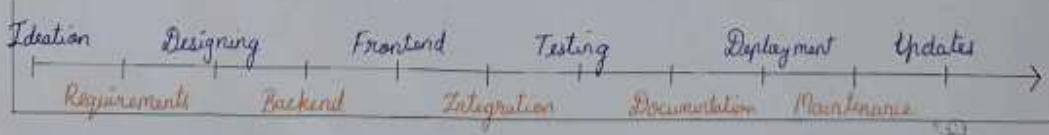
**WHAT SHOULD WE PROTOTYPE?**

- AI legal chatbot
- Custom document generator

**HOW MIGHT WE MEASURE SUCCESS?**

- User feedback and retention
- Expert review/lawyer validation
- Benchmarking against alternatives

**How will we make this happen?**



The timeline diagram shows the project phases: Ideation, Designing, Frontend, Testing, Deployment, Updates, Requirements, Backend, Integration, Documentation, and Maintenance. The phases are arranged in two rows: Ideation, Designing, Frontend, Testing, Deployment, Updates in the top row, and Requirements, Backend, Integration, Documentation, Maintenance in the bottom row. Arrows indicate the flow from left to right between the phases.

## Chart paper:

