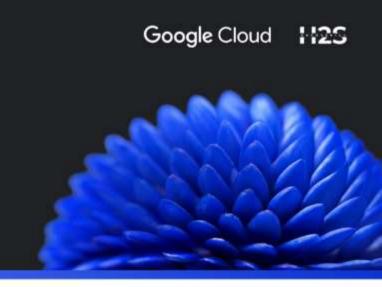


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Team Name: Impact Forge

Team Leader Name: Shraddha Jha

Problem Statement: Generative AI for Demystifying Legal Documents

Brief about the prototype:

- •Generative Al-based platform that demystifies contracts and agreements.
- •Provides clause-by-clause simplification in plain language, with role-based perspectives (Tenant vs Landlord, Employee vs Employer).
- •Detects hidden risks, penalties, and obligations with easy-to-read risk heatmaps.
- •Supports multilingual explanations (English, Hindi, Tamil, Marathi, etc.) and voice-based summaries for accessibility.
- •Offers interactive Q&A: users can ask questions like "What happens if I cancel?".
- •Includes comparison tools for contracts (loan offers, updated agreements, T&Cs).
- •Designed with Explainable AI \rightarrow transparent reasoning and alignment with Indian laws.

Opportunity should be able to explain the following:

How is it different from other existing solutions? Current tools offer surface-level summaries. ClauseClear provides a multi-dimensional analysis:

 Role-Based Context: It understands your position (e.g., employee, tenant) and tailors its explanation accordingly.

Deep Risk Analysis: Instead of just simplifying text, it actively flags risks, penalties, and obligations

using visual heatmaps.

• India-First Accessibility: We focus on multilingual support (Hindi, Tamil, etc.) and voice-based explanations to cater to diverse literacy levels across India.

How will it be able to solve the problem? ClauseClear directly tackles the information asymmetry in legal documents by:

• Empowering Users: Transforming dense jargon into plain language, giving individuals the knowledge to negotiate better terms and avoid unfavorable conditions.

Reducing Financial & Legal Risks: Proactively identifying hidden clauses and potential pitfalls before a contract is signed.

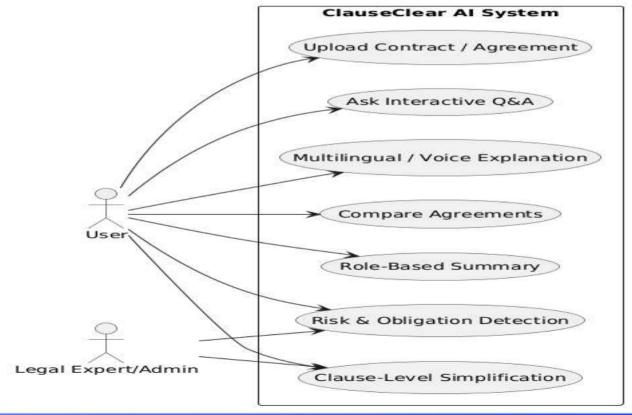
 Democratizing Legal Understanding: Making crucial legal information accessible to everyone, regardless of their background or language.

USP of the proposed solution Our Unique Selling Proposition is "Protective Intelligence." We don't just summarize; we analyze, alert, and advise. ClauseClear acts as a personal legal guardian that explains what a contract says, what it really means for you, and what dangers might be hiding in the fine print.

List of features offered by the solution:

- Clause-Level Summarization: Breaks down contracts into simple, easy-to-understand explanations for each clause.
- △□ Risk & Obligation Detection: Automatically identifies and highlights potential risks, penalties, hidden fees, and mandatory obligations with a visual color-coded heatmap (Green, Yellow, Red).
- ## Multilingual & Accessible Simplification: Translates and simplifies legal text into multiple Indian languages (Hindi, Tamil, Marathi, etc.). Includes voice-based explanations for users with low literacy.
- Interactive Legal Q&A Chatbot: An Al assistant that answers specific questions about the document, like "What is my notice period?" or "What happens if I miss a payment?".
- Agreement Comparison: Allows users to upload and compare two different agreements (e.g., two job offers or two loan contracts) side-by-side to identify the better option.
- Explainable & Trusted AI: Built on a foundation of LLMs combined with Legal Ontologies to ensure accuracy. The system provides reasons why a particular clause is flagged as risky, building user trust.

Process flow diagram or Use-case diagram



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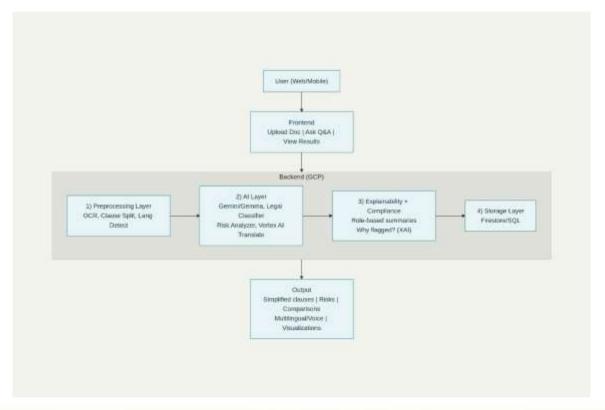
Wireframes/Mock diagrams of the proposed solution (optional)

ClauseClear - Upload Contract	
Drag & Drop File Here	
Browse File	
 Language: [English ▼] Voice Mode: [On / Off]	
Analyze Now	

Risk & Obligation Dashboard	
"Risk Heatmap: [Low	Medium High]"
Obligations: "Tenant must pay monthly" "Landlord must provide maintenance"	
Download Report PDF	

"Original Document"	"Simplified Clauses"		
"Clause 1: Original Text" "Clause 2: Original Text"	"Clause 1: Simple explanation" "Clause 2: Risk A"		
"Clause 3: Original Text"	"Clause 3: Obligation []"		
"Toggle View: [User / Lawyer	/ Admin]"		
ClauseClear Q&A			
Al: This clause means the tenant must pay rent.			
User: What if payment is delayed?			
Al: A penalty of 5% is applied.			
Ask a Question] [Send] [Translate] [
"Contract A"	"Contract B"		
"Clause 1: Same"	"Clause 1: Same"		
"Clause 2: Payment 10 days" "Clause 3: No termination"	"Clause 2: Payment 5 days A" "Clause 3: Termination allowed"		

Architecture diagram of the proposed solution



Technologies to be used in the solution:

- Cloud Platform:
- Google Cloud: For secure, scalable, and compliant infrastructure.
- Generative AI & Machine Learning:
- Google Vertex AI: Central platform for managing AI models.
- **Gemini Models:** For advanced reasoning, multi-lingual summarization, and interactive Q&A.
- Gemma Models: Fine-tuned for specific legal clause classification tasks.
- Gemini Code Assist: To accelerate development and deployment.
- Backend & API:
- Python (Flask/FastAPI): For backend logic.
- Cloud Run / App Engine: For serverless and scalable application hosting.
- Cloud Storage: For secure and private document storage.
- Frontend:
- React / Vue.js: For building a responsive and interactive user interface.
- Database:
- Cloud SQL / Firestore: To store user data and legal ontology information.

Estimated implementation cost (optional):

Add as per the requirements for the hackathon:

Impact & Vision: Why ClauseClear Matters for India

Massive Social Impact

Everyday Citizens: Make safer decisions on rental agreements, loans, and insurance policies.

Employees: Understand employment contracts better and negotiate fairer terms. Small Businesses: Simplify vendor agreements and service contracts without expensive legal fees.

The ClauseClear Advantage

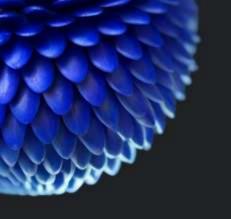
India-First Focus: Built with a deep understanding of Indian languages and the legal challenges faced by its citizens.

Empowerment Through Technology: Uses cutting-edge AI to democratize legal knowledge, fostering a more transparent and equitable society. Scalable & Accessible: A cloud-native solution with the potential for mass adoption,

reaching millions through web and mobile platforms.

Our Pitch to the Judges:

"ClauseClear is your Al-powered legal guardian that simplifies contracts, flags hidden risks," and empowers every Indian — from tenants to entrepreneurs — to sign with confidence."



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Thank you