NYAY-SETU

Project Name: Nyay-Setu

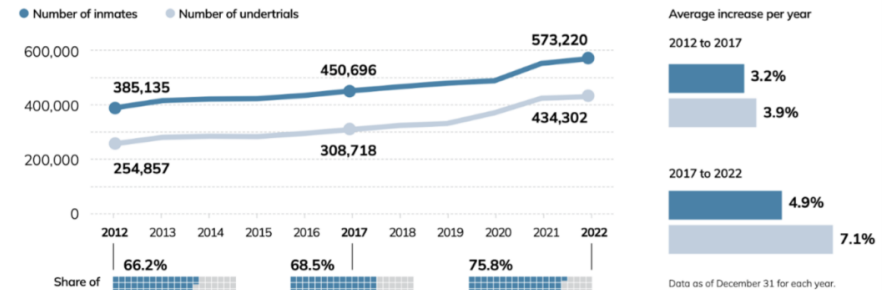**Tagline: Accelerating Justice with Artificial Intelligence.**
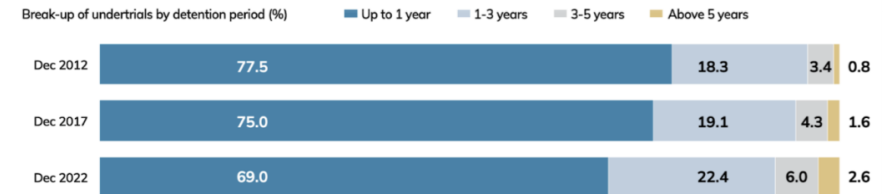
Team Name: Team Code-Blooded

The Overview / Story :

- **The Hook:** "In India, a civil case takes an average of **3-5 years** to resolve. For 5 crore families, justice is not just delayed; it is effectively denied."
- **The Insight:** The bottleneck isn't just the *number* of judges, but the *efficiency* of the process. Judges spend 40% of their time on administrative tasks and reading repetitive files.
- **Our Mission:** To transform the Indian Judiciary from a 'paper-heavy' legacy system to a 'data-driven' powerhouse.
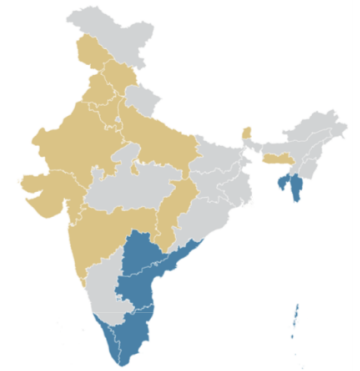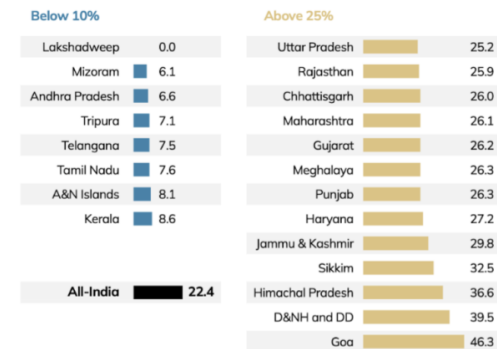
27a. Share of undertrials

- Number of inmates
- Number of undertrials

	2012	2017	2022
Number of inmates	385,135	450,696	573,220
Number of undertrials	254,857	308,718	434,302

Share of undertrials: 66.2% (2012), 68.5% (2017), 75.8% (2022)

Average increase per year

	2012 to 2017	2017 to 2022
Number of inmates	3.2%	4.9%
Number of undertrials	3.9%	7.1%

Data as of December 31 for each year.

27b. Undertrials by detention period

Break-up of undertrials by detention period (%)

	Up to 1 year	1-3 years	3-5 years	Above 5 years
Dec 2012	77.5	18.3	3.4	0.8
Dec 2017	75.0	19.1	4.3	1.6
Dec 2022	69.0	22.4	6.0	2.6

27c. Share of undertrials in prison for 1-3 years (%), Dec 2022

Below 10%		Above 25%	
Lakshadweep	0.0	Uttar Pradesh	25.2
Mizoram	6.1	Rajasthan	25.9
Andhra Pradesh	6.6	Chhattisgarh	26.0
Tripura	7.1	Maharashtra	26.1
Telangana	7.5	Gujarat	26.2
Tamil Nadu	7.6	Meghalaya	26.3
A&N Islands	8.1	Punjab	26.3
Kerala	8.6	Haryana	27.2
		Jammu & Kashmir	29.8
		Sikkim	32.5
All-India	22.4	Himachal Pradesh	36.6
		D&NH and DD	39.5
		Goa	46.3

The Problem

The Judicial Crisis: The "Case Mountain"

- **Statistic: Over 5.3 crore (53 million) cases are pending in Indian courts as of late 2025.**
- **Impact: 85% of these cases are stuck in District Courts, where the common citizen faces the longest delays.**
- **The "Inherited Battle": Justice is so slow that many litigants die before their first substantive hearing, leaving their children to inherit legal battles.**

Market Potential

- **B2G Scale:** Leveraging the ₹**7,210 Crore e-Courts Phase III** budget by licensing infrastructure to State Legal Authorities.
- **B2B Recurring:** Generating consistent SaaS revenue (e.g., ₹999/mo) by providing a "Virtual Office" for lawyers with AI automation.
- **B2C Volume:** Monetizing millions of citizens via affordable "pay-per-use" AI legal drafting and evidence analysis (₹199+).

What are you solving?

- **Simplifying Case Filing (For Citizens):** Filing a case is currently a complex, jargon-heavy process. Our LLM acts as an intelligent legal drafter, allowing users to describe their grievance in plain language and automatically generating the correct legal format for filing.

- **Intelligent Case Tracking:** Instead of cryptic status codes, our AI interprets court orders and explains the current case status, next hearing details, and required actions to the user in simple terms.

- **Dual-Sided Legal Aid:** We bridge the knowledge gap by providing an AI assistant for both parties (Petitioner & Respondent). It helps them understand legal proceedings, summarizes arguments, and ensures fair access to legal information.

- **Profitability:** Achieving high margins using **Groq LPUs** to drastically lower AI processing costs vs traditional GPUs.

- **Growth:** A scalable Spring Boot architecture designed to support **1 Million+ users** with minimal cost overhead.

The Solution : Nyay-Setu: A Unified AI-Powered Judicial Ecosystem

1. For Citizens (Access): "Vakil-Friend" AI Assistant

- **Simplification: A multilingual chatbot that demystifies complex legal jargon and explains court orders in plain language.**
- **Accessibility: Enables simple, guided e-filing of cases and real-time status tracking without needing a lawyer for every small step.**
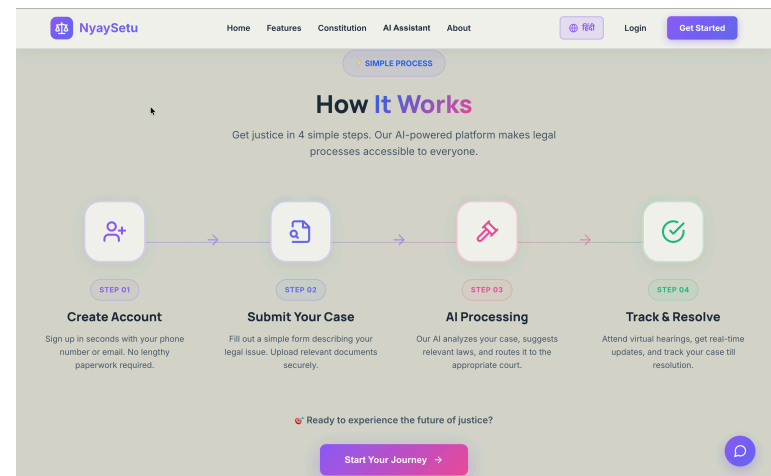
2. For Judiciary (Speed): Intelligent Workflow Automation
- **Smart Scheduling: An algorithmic calendar that predicts hearing durations to prevent clashes and reduce adjournments.**
- **AI Summarization: Instantly compresses 100+ page case files into concise 2-page "Judicial Briefs," highlighting key evidence and precedents.**

3. For Lawyers (Efficiency): The "Virtual Office"

- **Auto-Drafting: GenAI tools that automatically draft legal notices, affidavits, and contracts based on simple inputs.**
- **Evidence Locker: A secure, blockchain-anchored digital vault for organizing and validating evidence.**
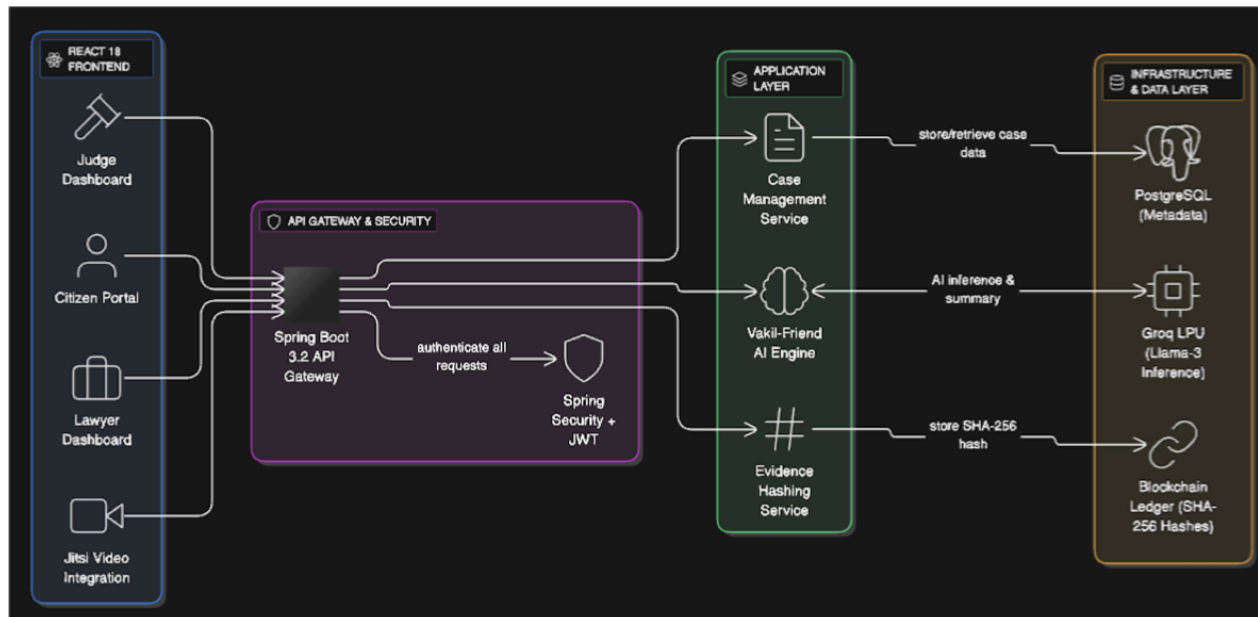
Live Platform Access

Technology / Innovation

High-Performance, Scalable & Secure Architecture

- **AI Engine (The Speed): Powered by Groq LPUs (Language Processing Units), delivering AI legal analysis at a fraction of the cost and speed of traditional GPU clouds.**

- **Backend (The Muscle): Built on Java Spring Boot Micro-services, ensuring enterprise-grade security and the ability to scale to 1 million+ users without performance lag.**

- **Security (The Trust): Features a Blockchain-anchored Evidence Locker, creating an immutable, tamper-proof audit trail for all digital evidence.**

- **Database (The Scale): Uses PostgreSQL for handling complex legal data relationships efficiently, ensuring rapid retrieval of case history.**
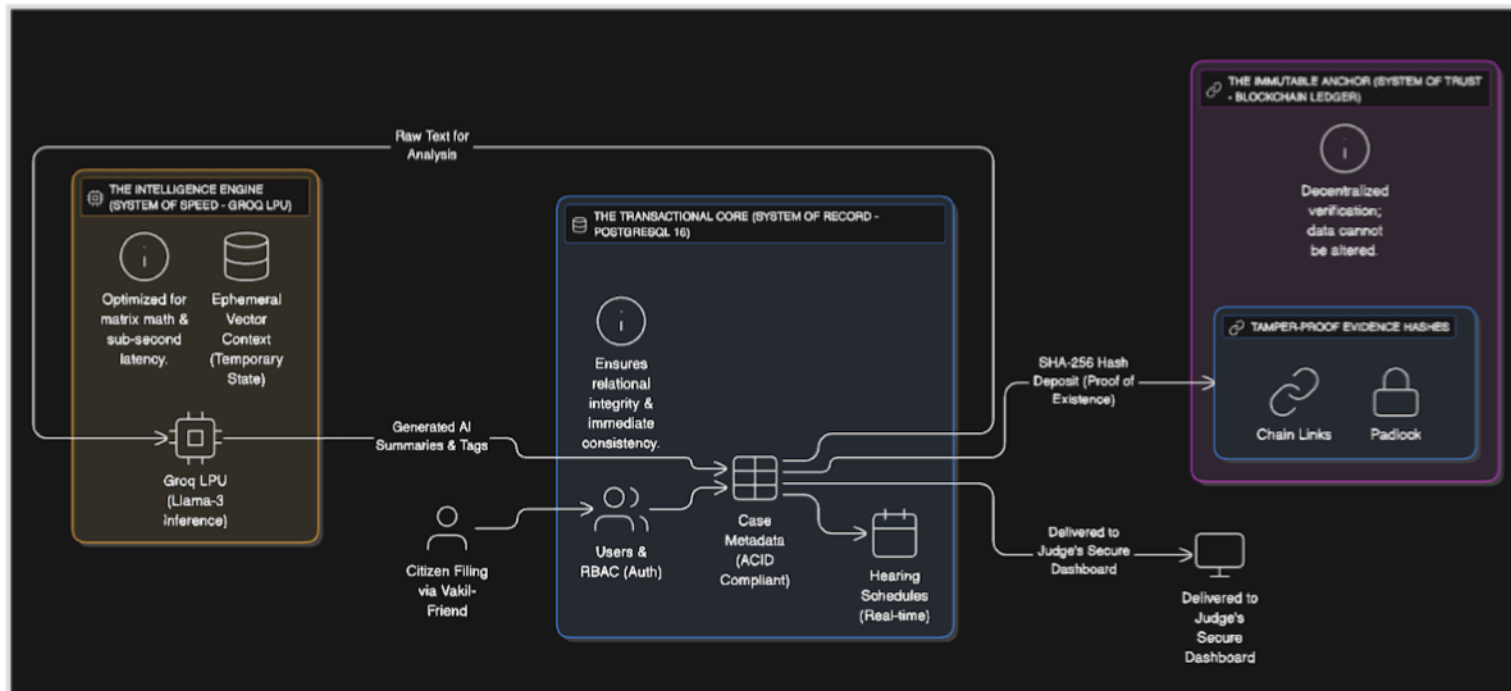
Market and Opportunity

Unlocking a ₹7,210 Cr+ LegalTech Opportunity

- **Total Addressable Market (TAM): The Indian Government has approved ₹7,210 Crore specifically for e-Courts Phase III, targeting digitization and AI integration.**

- **The Demand: With 5 Crore+ pending cases, the demand for automation is not optional, it is critical. Every one of India's 1.4 Billion citizens is a potential user.**

- **Key Growth Driver: The shift from "Computerization" (Phase I & II) to "Smart, Paperless Courts" (Phase III) creates a direct opening for AI solutions like Nyay-Setu.**

- **Strategic Partnerships:**

  - **SLSAs (State Legal Service Authorities): for managing Lok Adalats.**

  - **CSCs (Common Service Centers): to reach rural litigants via e-Sewa Kendras.**

- **Official Mission Budget: Cabinet Approves ₹7,210 Crore for e-Courts Phase III**

- **Vision Document: e-Committee, Supreme Court of India - Phase III Roadmap**

CREDITS: Acknowledgments & Stakeholders

Stakeholders

Primary Stakeholders

- **Common Citizens (Litigants): Seeking reduced legal anxiety and "Justice from Home".**

- **Legal Professionals (Lawyers): Requiring secure, blockchain-verified evidence management.**

- **Judiciary (Judges): Aiming to eliminate the 5.3 crore case backlog with AI-driven speed.**

Institutional Stakeholders

- **Ministry of Law & Justice: For alignment with the National e-Courts Mission Phase IV.**

- **VOIS & Edunet Foundation: Our innovation partners and mentors providing the framework for industrial growth.**

NYAY-SETU

TECHNICAL REPOSITORY & SOURCE CODE SOVEREIGNTY

NYAY–SETU

Git HUB - https://github.com/viru0909-dev/nyay-setu-working

Scan Now!

Technical Statistics

- **Architecture**: Modular Microservices

- Core Backend: Spring Boot 3.2 with JPA/ Hibernate.

- Frontend: React 18 + Tailwind CSS.

- Security: Spring Security + JWT + SHA-256 Hashing.

The Team

Virendra Gadekar(The Lead)

LinkedIn **GitHub**

- Role: Project Architect & Lead Full-Stack Developer.

- Core Engineering: Designed and deployed the entire Spring Boot 3.2 backend and React 18 frontend ecosystem.

- AI Integration: Developed the Vakil-Friend LLM engine and optimized inference using Groq LPU for blink-speed results.

- Security & Trust: Implemented the SHA-256 hashing service and Blockchain Evidence Locker for zero-trust integrity.

Sarthak Sonawane(Frontend dev)

LinkedIn **GitHub**

- **Expertise:** React.js, Responsive Design, User Experience.

- **Contribution:** Crafted the intuitive "Vakil-Friend" interface to ensure complex legal data is easy to read for citizens and judges.

Kundan Joshi(Researcher)

LinkedIn

- **Expertise:** Data Structures, Algorithms, Legal Process Analysis.

- **Contribution:** Conducted in-depth research on Indian judicial workflows to design the logic for the **Smart Scheduling**

TECHNICAL REFERENCES & CITATIONS

NYAY-SETU

- **Groq LPU Documentation: Used for integrating Llama-3-70B to achieve near-instant inference for the "Vakil-Friend" engine.**

- **Jitsi Meet API: Guidelines for embedding WebRTC virtual courtrooms into the React 18 frontend.**

- **Spring Boot 3.2 & Security: Official documentation for building the REST API and implementing JWT Role-Based Access Control.**

- **PostgreSQL & Flyway: Industry best practices for managing relational schemas and ensuring data integrity through migrations.**

- **SHA-256 Hashing Standards: Cryptographic research used to build the Immutable Blockchain Evidence Locker.**

- **National Judicial Data (2025): Research on the 5.3 crore case backlog used to validate the project's impact and urgency.**

THANK YOU

NYAY-SETU

Justice delayed is justice denied. Nyay-Setu is not just a platform; it is the digital bridge to immediate, immutable, and accessible truth for 1.4 billion people.

🌐 **Live Platform**

💻 **Source Code**

📱 **Scan to Explore**

Virendra Gadekar

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