

AI for Bharat Hackathon

Powered by **aws**



Team Name : **CtrlZ**

Team Leader Name : **Abel Mahesh Tharakan**

Problem Statement : **Build an AI-powered solution that improves access to information, resources, or opportunities for communities and public systems.**

THE ₹299 CRIME



AirTel

Airtel: ₹299 deducted for Value-Added Service. Balance:
₹1,201

A telecom company takes **₹299**. *No consent. No service.*

For Ramesh in Lucknow, this is **ONE WEEK'S FAMILY PROFIT**.

- Navigate English portals → **Give up**
- Hire lawyer (₹5000) → **Go broke**

Result: **SILENCE**. Like **50 million** others this year.

CITADEL AI

First-Strike Legal Draft



Voice



120s



Draft

Voice to court-ready draft in 2
minutes

Our Unfair Advantage: How We're Different

We don't compete with chatbots. We replace lawyers for consumer issues.

Feature	Legal Chatbots / Portals	Traditional Lawyers	CITADEL AI
Output	Advice / Information	Legal Representation	Court-Ready Doc
Time to Action	Days of research	Weeks of meetings	120 Seconds
Cost	Free / Low	₹5000+	Fraction of recovery
Language	English-heavy	English	Built for Indian languages, starting with Hindi
Strategy	Generic Info	Custom (expensive)	AI-Powered
Evidence Help	None	Manual Review	Automated Validator

WHAT OTHERS DO:

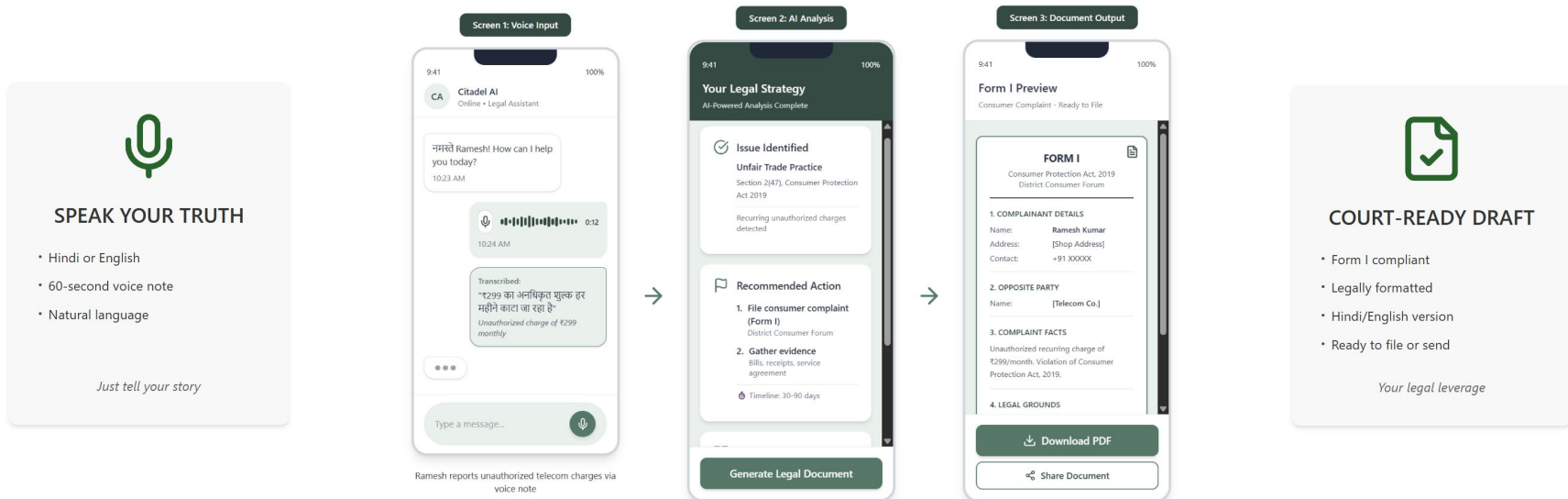
- Simplify Information
- Translate Content
- Offer Consultation

WHAT WE DO:

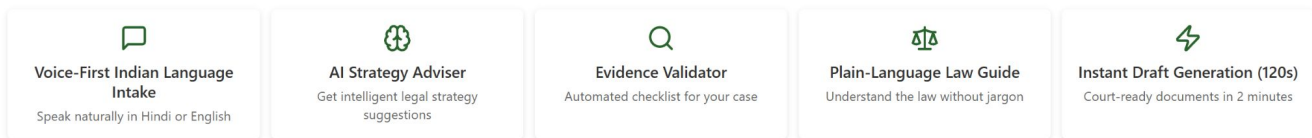
- Produce the fileable artifact
- Provide actionable strategy
- Validate evidence automatically
- Optimize for Hindi Voice and scale

From Voice to Legal Leverage in 120 Seconds

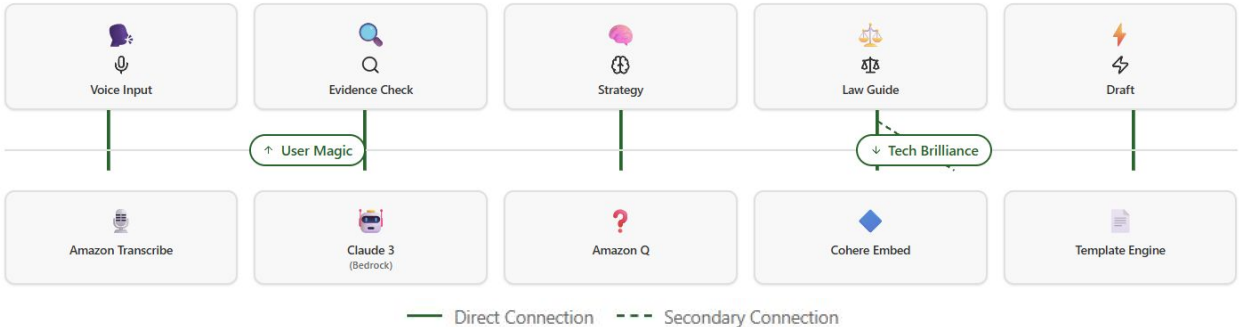
Here's how Citadel AI works



The 5 Features

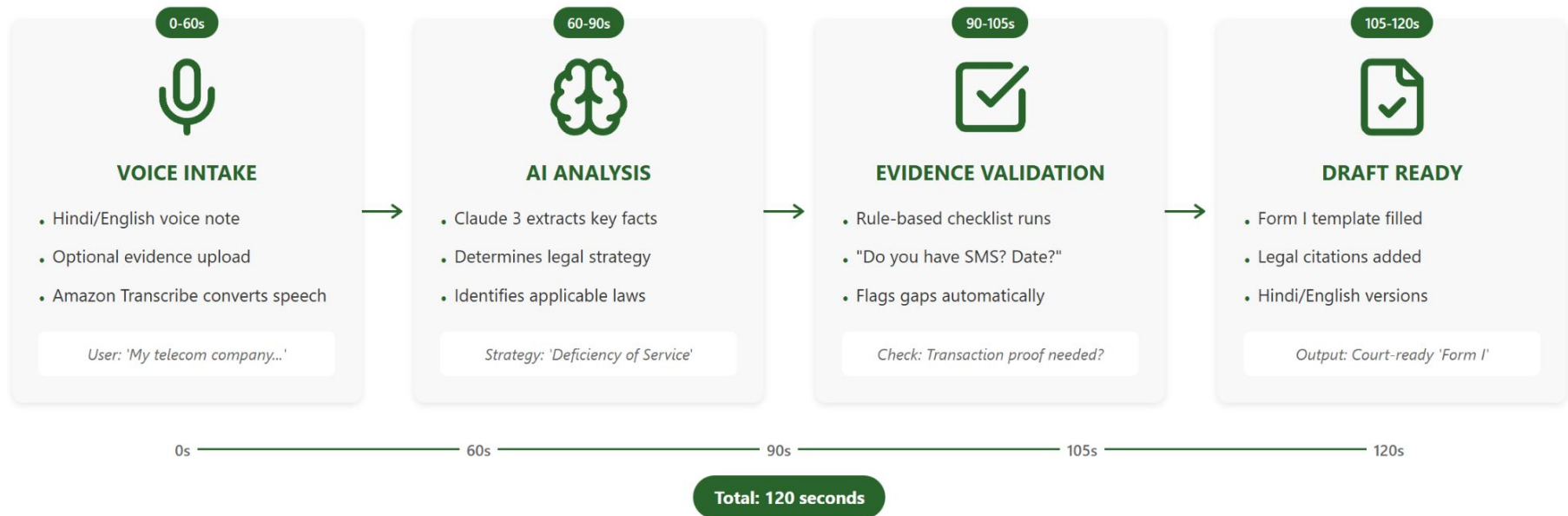


User Magic (The Experience)	Tech brilliance (The Engineering)
Voice-First Intake: Speak naturally about your problem in Hindi or English. The AI understands your story, transcribes it and suggests potential legal issues.	Multilingual NLP Pipeline: Amazon Transcribe for speech-to-text + Claude 3 for entity extraction and issue classification.
Evidence Validator: AI analyzes your story to evidence user has (product, shop) and flags potential evidence gaps (receipt, date) to build a more complete case.	Intelligent Gap Analysis: Claude 3 analyzes against legal checklists providing actionable "strength/weakness" insights.
AI Strategy Adviser: The core intelligence. Analyzes users case to recommend the optimal path ("File Complaint," "Gather Evidence") and provides clear reasoning.	Rule-Based Advisory Engine: Orchestrated by Amazon Q, it applies logical rules to generate strategic guidance and next steps.
Plain-Language Law Guide: Gets a clear explanation of your rights under the Consumer Protection Act turning complex laws into simple steps.	Context-Aware RAG Engine: Cohere Embed retrieves relevant legal provisions. Claude 3 explains it in simple Hindi, aiming for accuracy and clarity.
One-Click Legal Offensive: Transforms your story into a court-ready "Form I" complaint PDF, auto-filled with your details in under two minutes.	Instant Legal Draft: Amazon Q orchestrates the flow, passing structured data from Claude 3 to a template engine for the formatted draft.



Trace the Magic: 120-Second Journey to Justice

From confusion to court-ready draft — no steps skipped



Why this Process Wins

Speed

2 minutes vs. 2 weeks

Clarity

No black box, traceable logic

Actionable

Ends with fileable document

Accessible

Built for Indian contexts

Citadel AI: Architecture Overview

Serverless AWS stack for privacy, scale, and compliance

TIER 1: USER INTERFACE



Progressive Web App



Voice Recording



Evidence Upload

TIER 2: AI SERVICES



Amazon Transcribe



Bedrock (Claude 3)



Cohere Embed

TIER 3: ORCHESTRATION & DATA



S3 Storage



Amazon Q Business



DynamoDB

TIER 4: OUTPUT GENERATION



Template Engine



PDF Generation



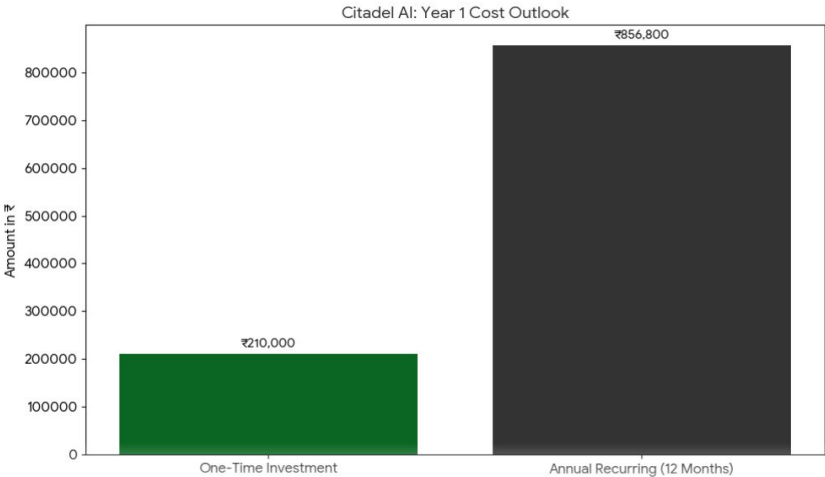
Secure Delivery

Implementation Cost

1. One Time Investment (Initial Setup)

These are the costs required to move from a hackathon prototype to a production-ready application.

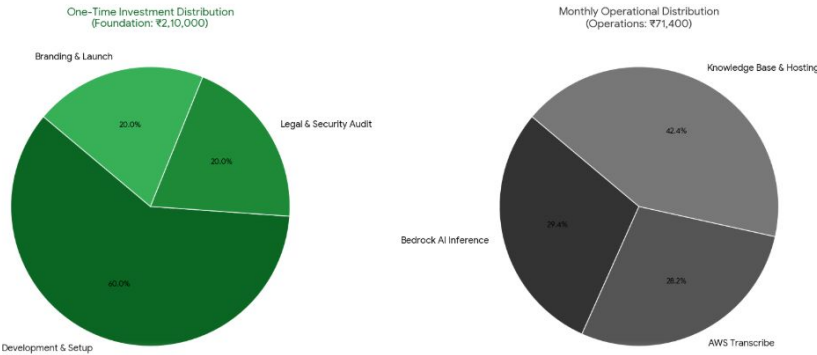
Category	Description	Cost (₹)
Development & Setup	Architecting AWS backend (Lambda/Amplify), Bedrock integration, and multilingual UI.	₹126,000
Legal & Security	Security audits for PII protection and verifying AI accuracy against the Consumer Act.	₹42,000
Branding & Launch	Market outreach to reach first 1,000 users and establishing local trust.	₹42,000
TOTAL INVESTMENT	Sum of all foundational setup costs required for launch.	₹210,000



2. Table 2: Constant Monthly Costs (Operational)

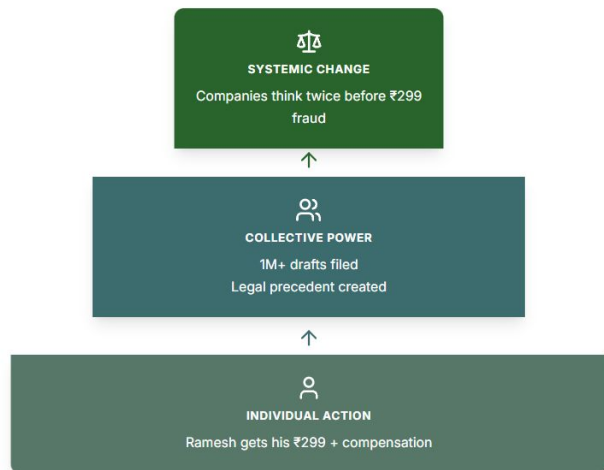
This table covers the costs required to keep the system running for **10,000 users**.

Component	Description	Monthly Cost (₹)
Bedrock AI	The 'Legal Brain'—performing RAG analysis, outcome prediction, and PDF generation.	₹21,000
AWS Transcribe	Real-time speech-to-text processing for natural Hindi and English interactions.	₹20,160
Knowledge Base	Storing the legal vector database (laws/cases) and hosting serverless infrastructure.	₹30,240
TOTAL MONTHLY	Total recurring operational burn to support 10,000 users/month.	₹71,400



The New Possible: Arming 50 Million with Legal Leverage

From Individual Justice to Systemic Deterrence



Not Features, But Transformation

What Others Do

✗ Give legal advice

✗ Connect to lawyers

✗ Translate documents

What We Do

✓ Produce the fileable artifact

✓ Provide first-strike capability

✓ Create leverage from helplessness

✓ Scale justice exponentially

Roadmap: From Today to Tomorrow

PHASE 1 (NOW - Hackathon)

Core Engine

- Hindi/English voice → "Form I" draft
- AWS Bedrock + Transcribe pipeline
- Basic web interface

PHASE 2 (Next 3 months)

WhatsApp Integration

- Forward SMS → Legal analysis
- Voice notes via WhatsApp → Draft
- No app install needed
- Pilot with 1,000 users via NGO partners

PHASE 3 (6 months)

Multi-Language & Scale

- Tamil, Telugu, Malayalam, Marathi support
- Integration with consumer court e-filing
- 50,000+ users via WhatsApp virality

PHASE 4 (12 months)

Platform Ecosystem

- API for banks/telecoms to resolve disputes
- Government partnership for mass adoption
- Pan-India coverage via WhatsApp + App

Team CtrlZ: Building the Legal Infrastructure Bharat Lacks

Architecting the Voice to Verdict pipeline for 50M

Product & Legal Lead

AM

ABEL MAHESH THARAKAN

- Product vision & strategy
- Consumer law compliance
- Amazon Q orchestration
- Pitch & investor narrative

AI/ML Engineering

ST

SHAURY TANDON

- Amazon Bedrock (Claude 3)
- Cohere Embed integration
- Transcribe pipeline
- Evidence validator logic

Cloud & Backend

AN

ADITYA NAIR

- AWS serverless architecture
- Security & data privacy
- Database design (DynamoDB)
- Cost optimization

Frontend & UX

AM

ABHINAV MANKAR

- React PWA development
- Voice-first interface
- Mobile experience
- User testing



Four engineers. One stack. Solving the ₹299 crime at scale.

Innovation partner **I12S**
HACKATHON

Media partner **YOURSTORY**

AI for Bharat Hackathon

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Thank You

