

Tab 1

Overall App Flow

```
Case Intake
↓
Key Case Facts Extraction
↓
Relevant Law & Precedent Retrieval
↓
Outcome Probability (Win / Lose / Settle)
↓
Strategy Memo
↓
Draft Document (Pleading / Memo / Notice)
```

Frontend Structure (HTML + Tailwind + JS)

Page Layout (Single Page App style)

- Top bar: **Case Name + Jurisdiction**
 - Left: Step navigation (1 → 5)
 - Center: Active section content
 - Bottom: “Run Analysis” / “Generate” CTA
-

SECTION 1: Case Intake & Key Facts

UI

Form fields

- Case type (Civil / Commercial / Criminal / Arbitration)
- Jurisdiction (Court + City)
- Parties (Plaintiff / Defendant)
- Short facts (textarea)
- Relief sought
- Stage of case (Pre-filing / Trial / Appeal)

Backend Tasks (Flask)

- Validate inputs
- Normalize text
- Store in in-memory session / simple JSON

AI / APIs (FREE)

- **LLM call** (Groq / HF Inference API / local Llama)
- Prompt: “*Extract structured litigation facts.*”

Output

```
{  
  "issues": [],  
  "claims": [],  
  "defenses": [],  
  "monetary_value": "",  
  "urgency_flags": []  
}
```

Checklist

- Case intake form
 - Fact extraction prompt
 - JSON schema validation
-

SECTION 2: Law & Precedent Retrieval

Goal

Answer: “*What law actually governs this dispute?*”

Backend Tasks

- Keyword extraction from facts
- Query free legal sources

Free APIs / Sources

- Indian Kanoon (scraped summaries – careful, minimal)
- Bare Acts via GitHub mirrors
- Preloaded small precedent corpus (PDF/text)

AI Role

- Rank relevance
- Summarize applicability

Output

- Applicable Acts & Sections
- 3–5 relevant past cases (titles + 2-line reasoning)

Checklist

- Keyword extraction
 - Static law corpus
 - Relevance ranking prompt
 - Clean citation formatting
-

SECTION 3: Outcome Probability (Win / Lose / Settle)

UI

Simple card with:

- Win %
- Lose %
- Settle %
- Confidence bar (Low / Medium / High)

Backend Logic (IMPORTANT)

This is **heuristic + AI-assisted**, not ML yet.

Inputs

- Case type
- Jurisdiction
- Relief type
- Precedent similarity
- Case stage

AI Prompt

"Given similar past cases and jurisdictional patterns, estimate outcome probabilities. Explain reasoning briefly."

Output

```
{  
  "win": 0.46,  
  "lose": 0.32,  
  "settle": 0.22,  
  "confidence": "Medium"  
}
```

Add disclaimer text (important legally)

Checklist

- Probability schema
 - Explanation text
 - UI visualization (bars)
-

SECTION 4: Strategy Memo

Goal

Give lawyers **actionable advice**, not theory.

AI Prompt Inputs

- Extracted facts
- Law sections
- Probability output
- Case stage

Output Sections

- Strategic posture (Aggressive / Defensive / Settlement-oriented)
- Immediate actions (next 30 days)
- Risk factors
- Settlement window suggestion

Example Output

Recommended Strategy: Early pressure + parallel settlement

Key Risk: Weak documentary proof on the delivery timeline

Suggested Action: File IA for interim relief within 14 days

Checklist

- Strategy prompt
 - Bullet-point formatting
 - Plain English tone
-

SECTION 5: Draft Document Generator

UI

Dropdown:

- Legal Notice
- Written Statement
- Internal Case Memo
- Settlement Proposal

Backend

- Template + AI fill
- Jurisdiction-aware tone

AI Prompt

“Draft a concise, court-ready document using Indian legal drafting conventions.”

Output

- Editable text area
- Download as `.docx / .pdf`

Checklist

- Draft templates
- AI fill logic

- Export function
-

Backend Architecture (Flask)

```
/api/intake  
/api/extract-facts  
/api/retrieve-law  
/api/probability  
/api/strategy  
/api/draft
```

- Stateless where possible
 - JSON everywhere
 - Simple prompt versioning
-

Deployment (HF Spaces)

Stack

- Flask backend
- Static frontend served from Flask
- Environment variables for API keys
- CPU-only

Free AI Options

- HuggingFace Inference API
- Groq (free tier)
- Local quantized model (fallback)

Checklist

- HF Space config
 - Requirements.txt
 - Secrets handling
-

15-Day Plan

Days 1–3

- Case intake + fact extraction

Days 4–6

- Law retrieval + precedent summaries

Days 7–9

- Probability engine (heuristic + AI)

Days 10–11

- Strategy memo generator

Days 12–13

- Drafting module

Days 14–15

- UI cleanup + HF deployment + demo case

LLM and API Details

SECTION-WISE MODEL RECOMMENDATION

SECTION 1 — Case Intake & Key Facts Extraction

Task type: Structured extraction, JSON output

Hard requirement: Deterministic schema, low hallucination

Best Models

Model Why

Llama-3.1-8B-Instruct (Groq) Excellent JSON discipline, very fast

Mixtral-8x7B (Groq) Better nuance for defenses & urgency

Mistral-7B-Instruct (HF) Reliable fallback

Token Needs

Input: 1–2k

Output: <500

Groq free tier is more than enough

Recommendation

Use Groq Llama-3.1-8B for this section

→ fastest + cheapest + predictable

SECTION 2 — Law & Precedent Retrieval

Task type: Ranking + summarization (NOT generation-heavy)

Hard requirement: Context window + reasoning

Best Models

Model Why

Mixtral-8x7B (Groq) Multi-document reasoning

Llama-3.1-70B (Groq, if available) Excellent legal summarization

Zephyr-7B / Nous-Hermes (HF) Good ranking + summaries

Architecture Tip (Important)

Do NOT ask model to “know law”.

Instead:

You retrieve sections/cases

Model only does:

relevance scoring

2-line applicability

Recommendation

Groq Mixtral-8x7B for ranking + summaries

SECTION 3 — Outcome Probability (Win/Lose/Settle)

Task type: Heuristic reasoning + explanation

Hard requirement: Controlled output, disclaimer-friendly

Best Models

Model Why

Llama-3.1-8B (Groq) Clear reasoning, stable probabilities

Phi-3-Medium (HF) Surprisingly good for heuristics

Key Design Rule (Critical)

Percentages must be derived partly in code

Model only adjusts & explains

Example:

```
base = heuristic_score(...)  
ai_adjustment = llm_reasoning(...)  
final = clamp(base + adjustment)
```

Recommendation

Groq Llama-3.1-8B

SECTION 4 — Strategy Memo

Task type: Advisory, synthesis, tone matters

Hard requirement: Actionable, not academic

Best Models

Model Why

Mixtral-8x7B (Groq) Best balance of depth + clarity

Llama-3.1-70B (if available) Very lawyer-like tone

Qwen-2.5-7B-Instruct (HF) Excellent bullet-point logic

Recommendation

Groq Mixtral-8x7B

Account Details and API Key

Groq API Key - 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

HF account

legalbooksales@gmail.com

Legalbook@2025