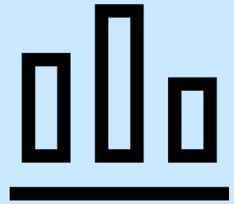
InHeir.AI

Smart and secure property dispute management, at your fingertips

Visit our Website

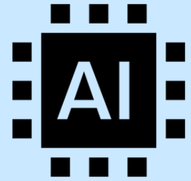
The Problem

High costs and legal complexity in title resolution and property inheritance



Absence of system for reporting and aggregating data on vulnerable properties

Slow and inefficient dispute resolution due to prolonged legal procedures and lack of support



Lack of deploy-able, privacy-compliant software solutions for intelligent legal assistance

Our Solution

Intelligent document summarization, case resolution and understandable insights to commoners

Geo-spatial insights for understanding patterns of vulnerable properties

Contextual chatbot with custom legal knowledge base without sacrificing privacy

Empowering community and legal professionals for management and reporting vulnerable properties

Features

Case creation with document upload and summarization

Anonymous reporting and outreach on vulnerable properties

Pluggable system with redaction and automated deletion of data

GIS based identification of at-risk property

Tailored, updated knowledge base for accurate assistance

Tech Stack

Frontend

NEXT.JS

Fluent UI
Insights

MapLibre

Backend

FastAPI

LangChain

OpenCage

Azure Functions

Azure Cosmos DB

Infrastructure

GitHub Actions

Azure AI search

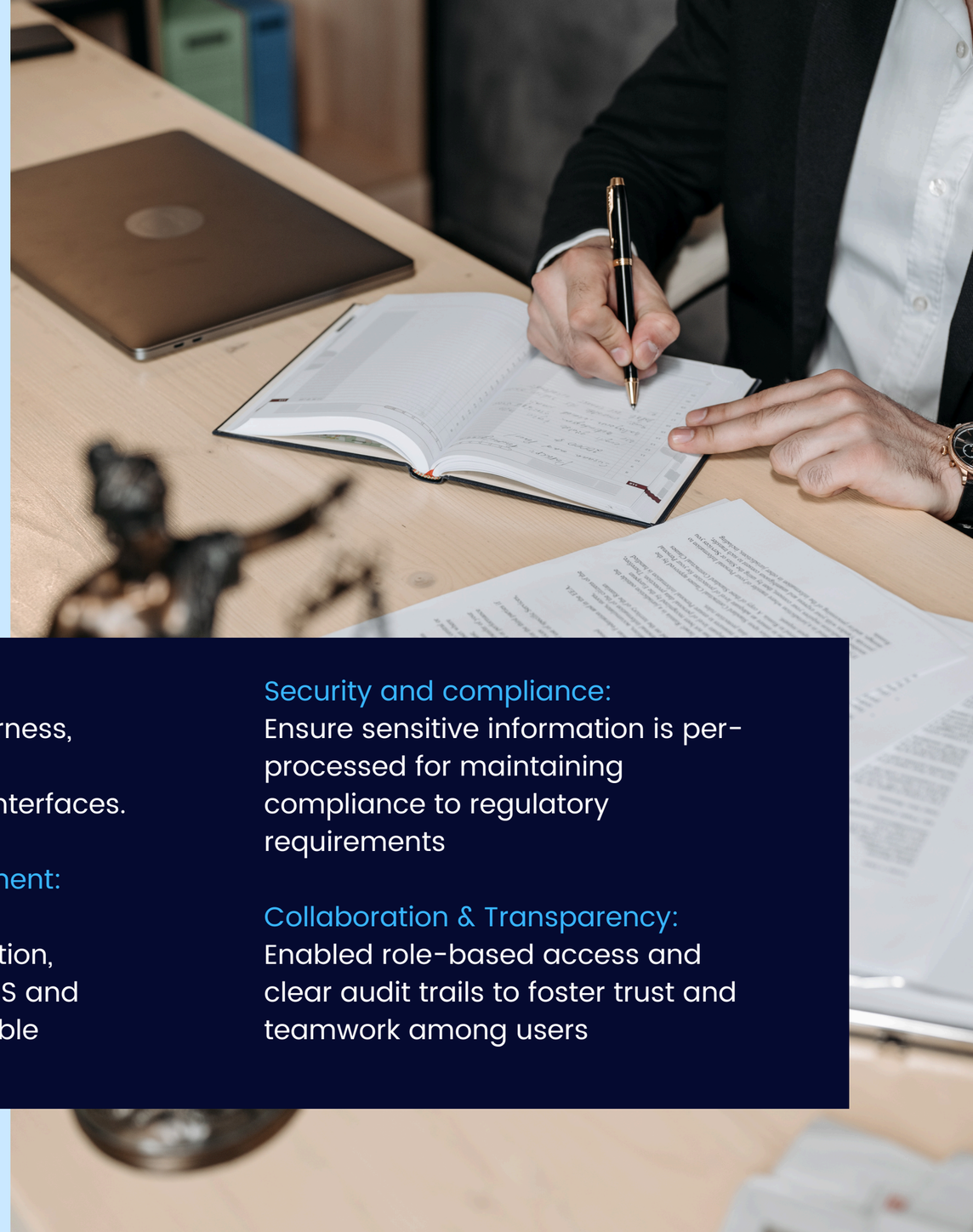
Azure SDK

Azure Registry

Microsoft Azure
Blob Storage

Azure AI Foundry

Approach



User-First Design:
Focused on intuitive, accessible interfaces for both legal professionals and the public.

AI Integration:
Automated legal research, document analysis and chat bot assistance for pluggable, comprehensive analysis.

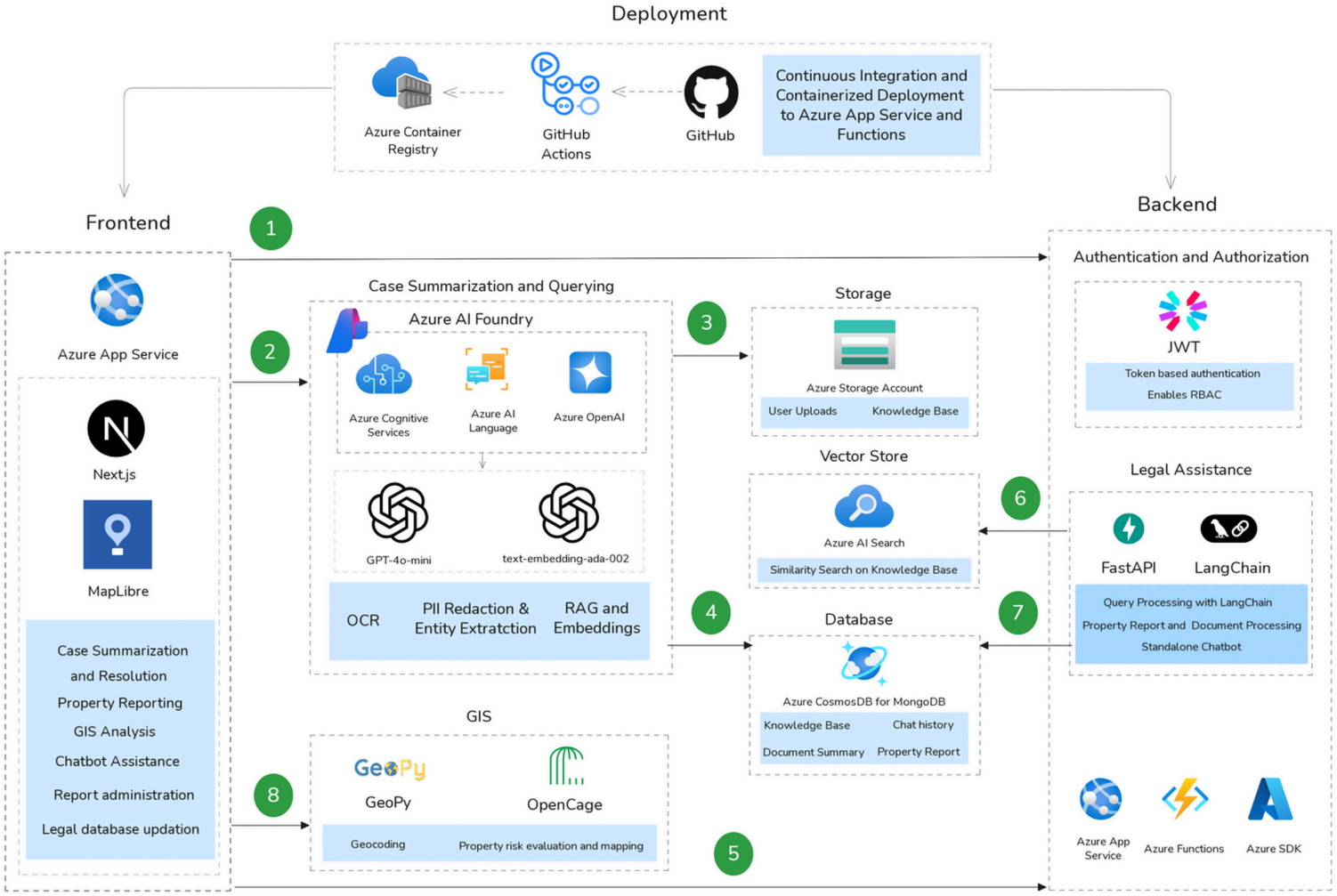
Responsible AI:
Built to preserve privacy, fairness, inclusive, transparency and understandably by simple interfaces.

Streamlined data management:
Real-time case and report management and aggregation, external knowledge base, GIS and data integration for actionable insights.

Security and compliance:
Ensure sensitive information is per-processed for maintaining compliance to regulatory requirements

Collaboration & Transparency:
Enabled role-based access and clear audit trails to foster trust and teamwork among users

Architecture



Impact

Improved policy comprehension among marginalized sections allowing legal awareness regarding their rights around inheritance

Reduced property and title disputes due to accessible platform and improved awareness among the general public reducing overhead on legal administrators.

Improved analysis of property risks by crowdsourcing data from community people, allowing comprehensive enhancement and coverage of open data

Reduced privacy breaches due to redaction of information, allowing accelerated legal adoption

Use Cases

Citizens

To understand their rights, create legal cases for their comprehension and self-resolution of cases , and report vulnerable properties.

To manage, analyze, and resolve inheritance/property disputes efficiently, and understand and analyze property risks in geographic locations.

Legal professionals

NGOs & civic bodies

To gather and advocate for crowdsourced data among community for policy action and advocacy

To understand dispute trends and identify risk areas and plan urban/legal interventions accordingly

Government agencies

Challenges

Ensuring quality of responses when redacted text is used after processing with Azure AI Language.

Performance issues while using CSFLE in MongoDB, resulting in poor user experience for user-facing applications.

Accuracy in GIS due to lack of comprehensive dataset and complexity involved in training models.

Computational complexity in PII substitution resulting in performance overhead.

Technical challenges in retrieval of information from documents in structured manner, requiring trained models for different forms.

Improper handling of non-form or non-computer generated PDFs which will need usage of Azure Custom Vision for more tailored training on property form fields for accurate extraction.

Future Enhancements

Implement support and enhance accuracy for scanned documents of low quality for providing comprehensive document summarization.

Training of custom models for field based extraction for structured processing and improved accuracy.

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Enhance the quality of self-hosting for organizations to have control over data processing.

Team

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Thank You

GitHub

Website

Demo Video