

SMART LEGAL ASSISTANCE & ATTORNEY-FINDING PLATFORM

College of Engineering

Department of Software Engineering



May 2025



Doi Amdisa



Fasika G/Hana



Haweten Girma



Hawi Abdi



Daniel Mekonnen

MEET THE TEAM

Introduction

Problems

Requirements



Use Case

Tools and Tech Stack

System Architecture

Demonstration

Q&A

Closing

OVERVIEW



INTRODUCTION

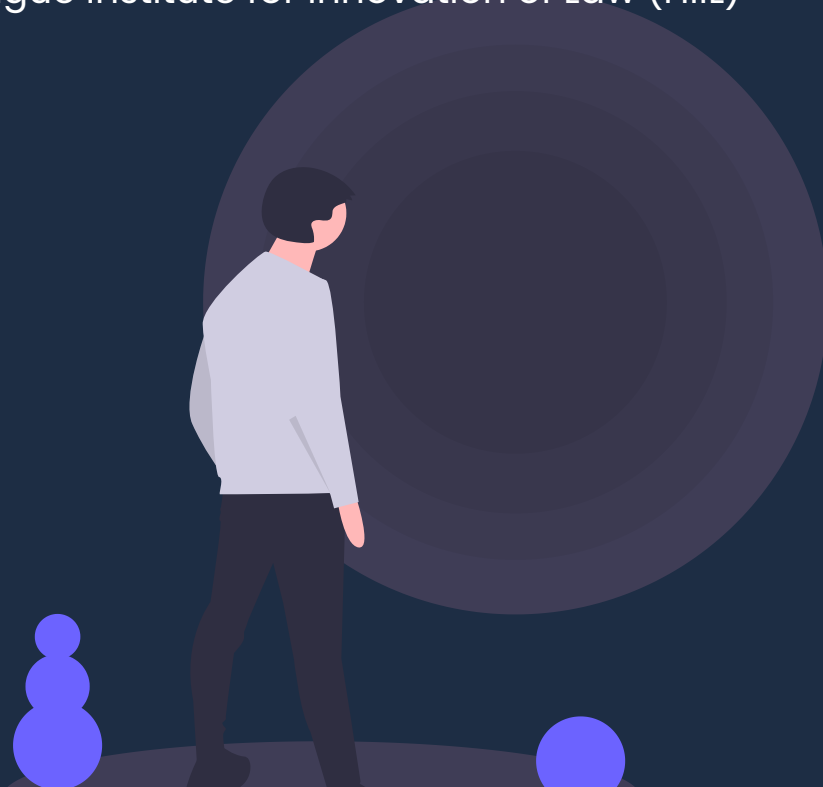
Context

40 % of Ethiopians face legal issues yearly (~7.4 M cases)

Source: "Justice Needs and Satisfaction in Ethiopia," published by The Hague Institute for Innovation of Law (HiIL)

Gap

Fragmented info, high cost, limited access for rural/low-income users



PROBLEMS

01

Lack of Info: Outdated directories, no success/fee data

02

High Cost: Avg. monthly income <\$55(around 7K ETB); legal fees prohibitive

03

Vulnerable Groups: Women, rural, non-English speakers left behind

02

REQUIREMENTS

**Functional
Requirements**

**Non-
Functional
Requirements**



Client

Register/login, search for attorneys based on expertise, location, and fee. Submit requests, rate service, and apply for pro bono services.



Attorney

Register credentials and set availability for clients. Accept or decline requests and view ratings from clients.



Admin

Approve profiles and pro bono applications from users. Manage users and content on the platform.



AI Chatbot

Provides NLP Q&A tailored to Ethiopia law.

Functional Requirements

05



Availability

99.9% uptime monthly, automatic fail-over.



Performance

Sub-second attorney searches, chatbot responds quickly.



Security

AES-256 encryption, TLS 1.3 for communications.



Reliability

Quick recovery, bi-annual stress testing performed.



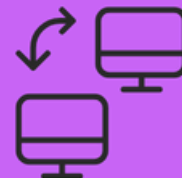
Usability

Responsive UI, advance maintenance notifications provided.



Maintainability

Modular code, routine dependency updates performed.



Interoperability

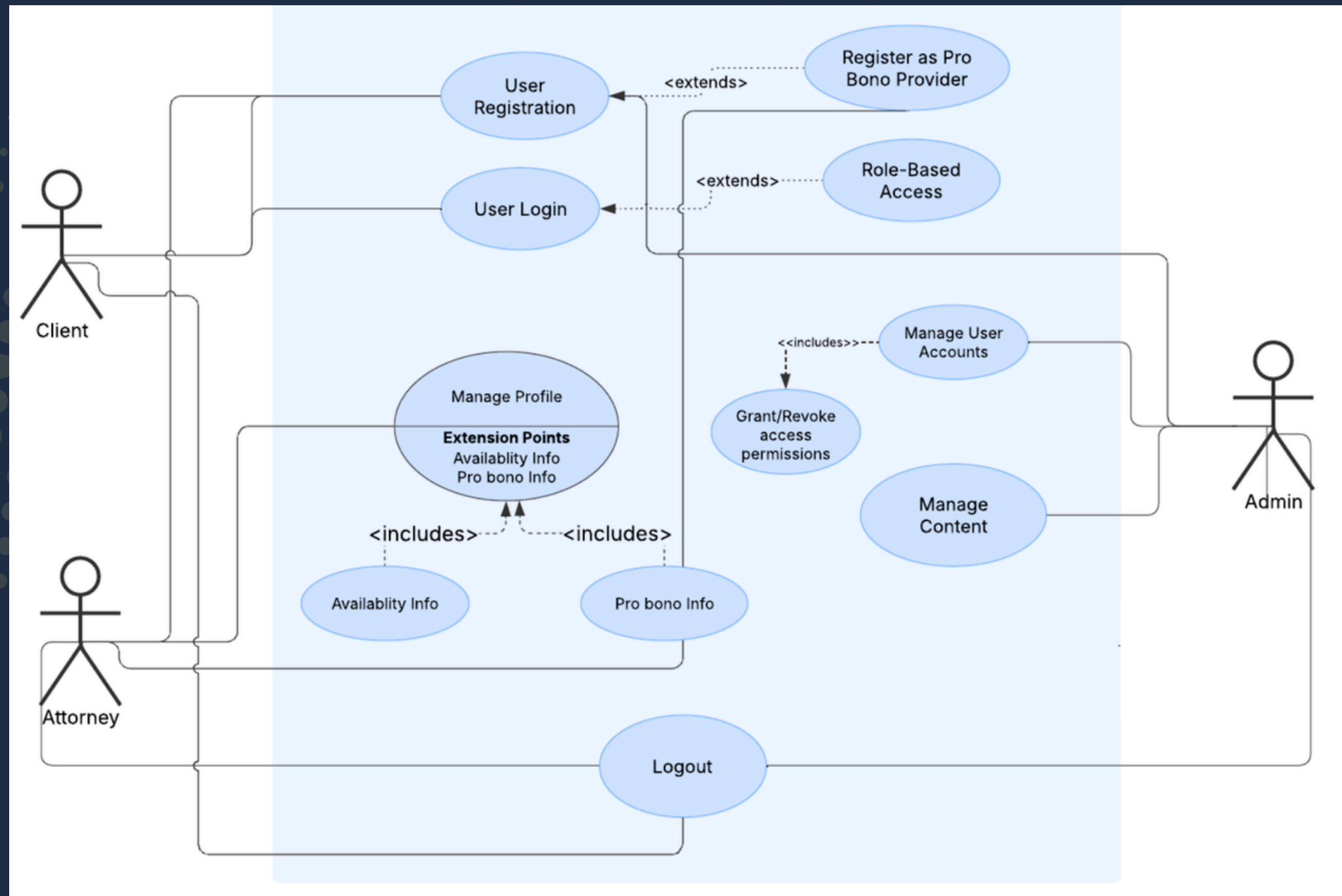
Secure API integration, third-party validation provided.

Non-Functional Requirements

USE CASE DIAGRAMS

Manage Users

User Requests



MANAGE USERS

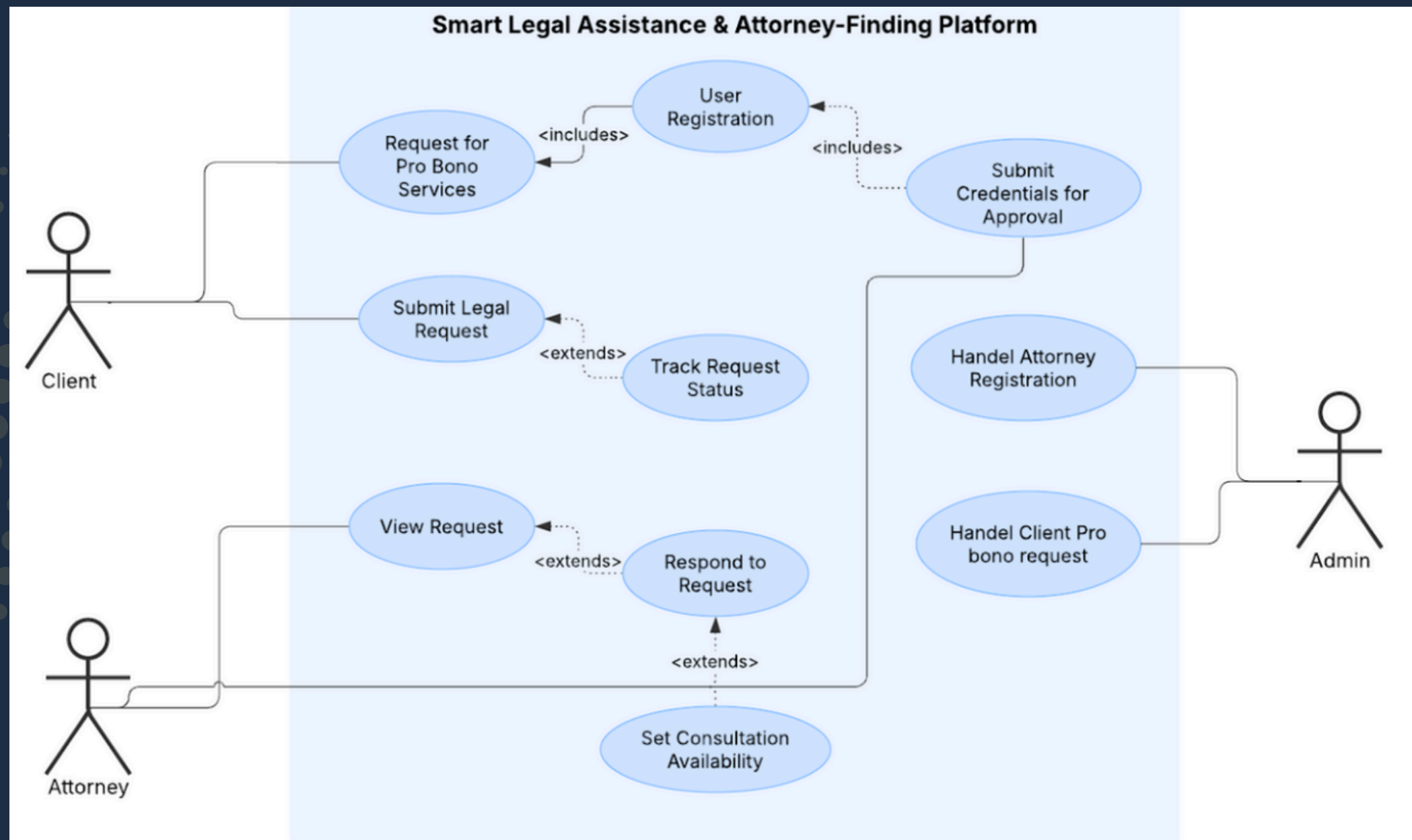
USE CASE DIAGRAM

07

Smart Legal Assistance & Attorney-Finding Platform

May 2025

AASTU



USER REQUESTS USE CASE DIAGRAM

08

TOOLS & TECH STACK

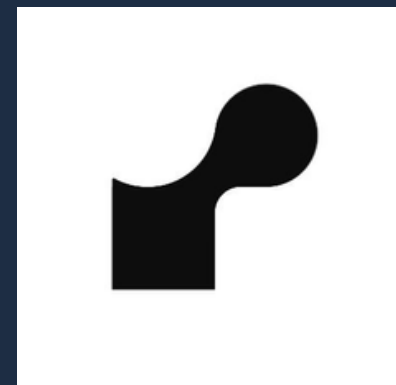
Front-end



Next.js



TailwindCSS



Render.com



Postman

Hosting and
Testing

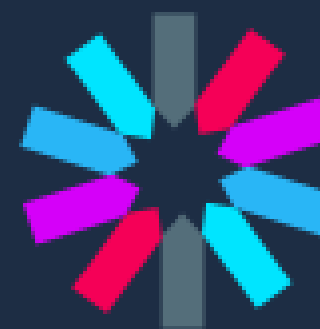
Back-end



Django



PostgreSQL



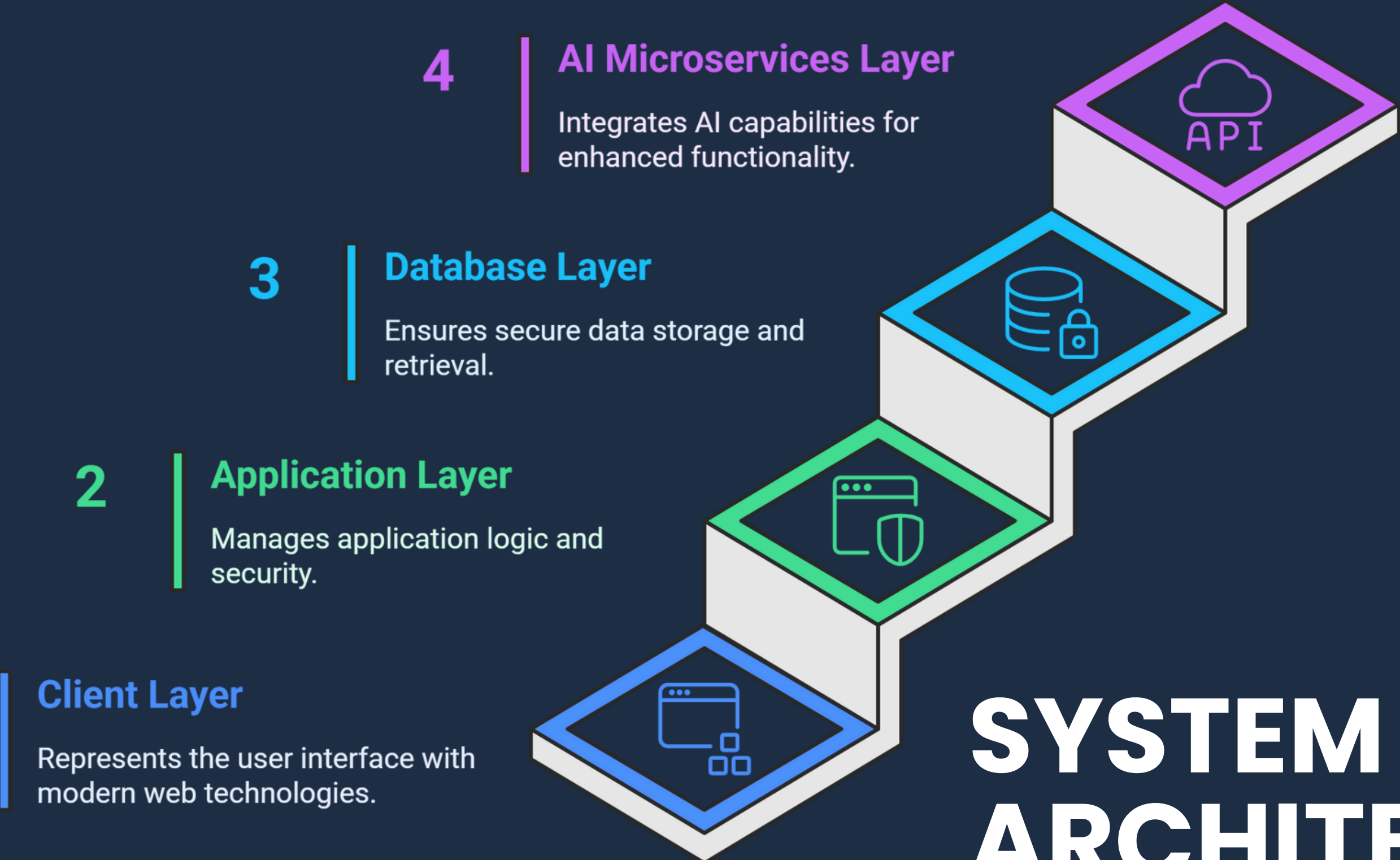
JWT



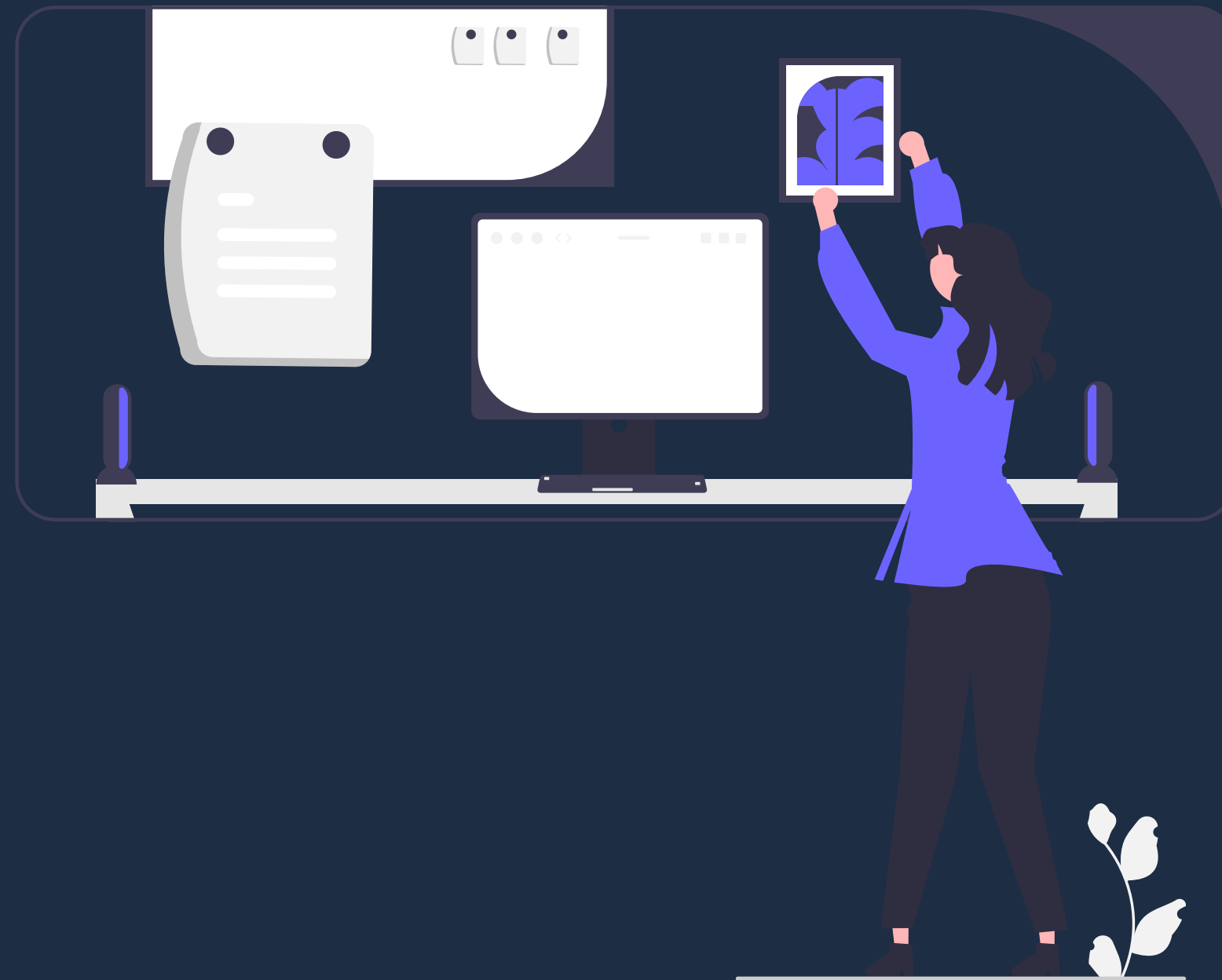
TLS

Auth

09



SYSTEM ARCHITECTURE



DEMONSTRATION



Q&A



THANK
YOU

