Innovation Challenge November 2025

Urban.IQ

“Your City, Reimagined.”

Civic Chat: Transforming Community Awareness Using Information Quotient

What Is the Problem?

Information Gap

Citizens lack clear, reliable local civic information, causing confusion everywhere.

Low Engagement

Traditional channels fail to encourage active civic participation or dialogue consistently.

Poor Personalization

No tailored updates based on user interests or location needs effectively.

What Is the Problem?

Limited Accessibility

Government data is hard to navigate and understand for many users.

Rising Misinformation

Communities lack bias-free, verified civic insights and guidance always.

Weak Inclusivity

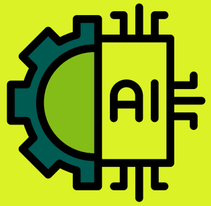
Platforms don’t support diverse users or varying expertise levels equally.

What Urban.IQ accomplishes?

Unified Platform

Brings discussions, election info, AI help, and updates together seamlessly.

Intelligent Assistant



Provides unbiased civic answers using RAG and Information Quotient.

Dynamic Feeds

Updates community posts, discussions, and civic alerts based on user relevance.

Inclusive Access

Supports ARIA tags, NVDA screen readers, and full accessibility standards.

Safe Moderation

Offers dashboards, content review tools, and reporting flows for trust.

Urban.IQ Features

Bias Control

Our assistant automatically rejects biased or leading political prompts, ensuring ethical and neutral civic information.

Anonymous Reports

Users can anonymously report harmful or misleading content, improving platform trust and safety from day one.

User Roles

Supports two user roles - Citizens and Administrators, enabling structured discussions and streamlined moderation.

Activity Monitoring

Tracks unread messages, new posts, reports, and notifications in real time using React Query caching and update polling.

Direct Messaging

Supports private one-on-one conversations between community members.

The Tech Stack We Used!

Frontend

Backend

Infrastructure

The approach that Urban.IQ followed

User-First & Inclusive Design

Security-First Infrastructure

Interoperable Ecosystem

Continuous Reliability

UrbanIQ supports NVDA screen reader, multilanguage voice guidance, clear UI layouts, and inclusive accessibility features to ensure that every user can navigate comfortably and independently.

Combined Azure Maps, Cloudinary, PostgreSQL, and modern frontend technologies into a cohesive ecosystem that communicates through structured API contracts.

Followed an iterative, test-driven approach with version-controlled deployments, ensuring stable builds, predictable behavior, and a dependable user experience across all modules.

All user inputs, route data, and event information are handled through secure APIs and strict role-based access control, ensuring privacy and implement security in all aspects.

What would be the Impact?

Accessible, Verified Civic Knowledge

Urban.IQ provides clear, AI-verified information that reduces misinformation and helps citizens easily understand laws, policies, and election processes.

Inclusive Civic Participation

With multilingual voice support, accessibility features, and a lightweight PWA, Urban.IQ ensures people of all abilities and backgrounds can engage equally.

Stronger Local Community Engagement

By enabling neighborhood discussions, events, and civic collaboration, Urban.IQ strengthens local communities and encourages real-world participation.

Improved Electoral Awareness & Trust

Urban.IQ simplifies finding polling locations, understanding candidates, and navigating civic tasks, helping citizens make confident, informed decisions.

What Urban.IQ Will Deliver in the Future?

Child & Youth Civic Education Mode

Create a child-safe, interactive learning space with gamified lessons, civic stories, quizzes, and map-based activities to help younger audiences develop awareness about democracy and community participation.

Accessible Civic Experience for All

Introduce features like sign-language assisted guidance, simplified reading modes for children, voice-first navigation, and adaptive text formats to make civic information easier for everyone to understand.

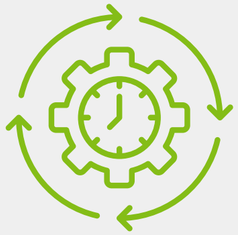
Real-Time Community Safety & Alert System

Add real-time public safety updates, missing-person alerts, emergency instructions, and smart safe-route suggestions powered by maps and verified community reports to keep citizens informed and protected.

Why Urban.IQ Earns Your Trust?

Inclusive & Accessible Design

Built to be accessible for everyone, Urban.IQ offers clear interfaces and supportive features that make it easy for all users to navigate and engage.



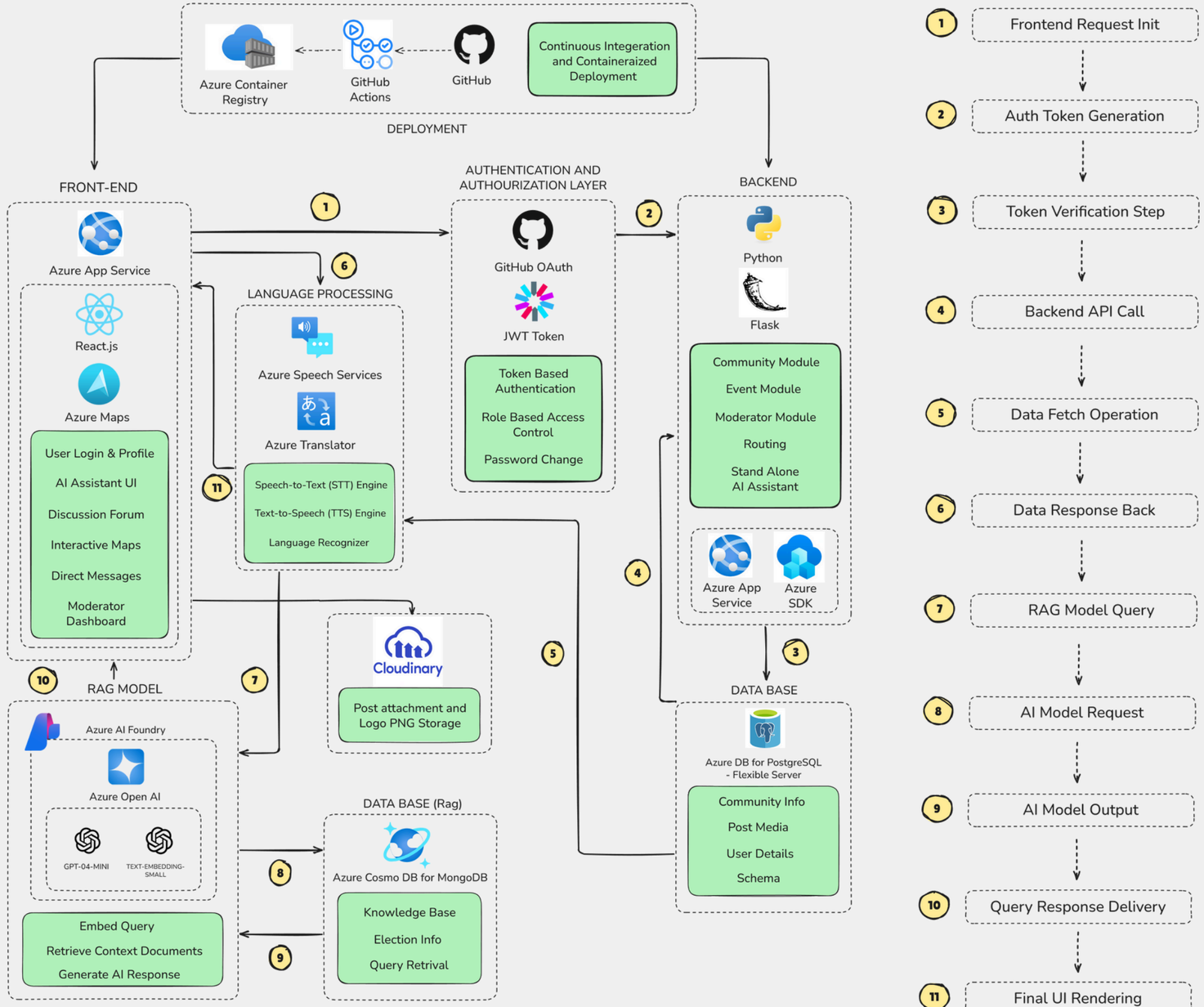
Reliable and Consistent

The platform delivers steady performance and accurate results, providing a dependable experience that users can trust each time they use it.

Designed With Purpose

UrbanIQ is built around real community needs, focusing on solving everyday challenges in navigation, accessibility, and local engagement through thoughtful and meaningful design choices.

Urban.IQ Infrastructure



1. Frontend Request Init
2. Auth Token Generation
3. Token Verification Step
4. Backend API Call
5. Data Fetch Operation
6. Data Response Back
7. RAG Model Query
8. AI Model Request
9. AI Model Output
10. Query Response Delivery
11. Final UI Rendering

We are a team of three, united by a shared vision and purpose.

Harish Elangovan

- Handles frontend development, creating an intuitive, responsive interface that ensures seamless user interaction and a smooth overall experience.

Muthuswamy M

- Handles backend development, building a secure, scalable system powering core logic, APIs, database operations, and smooth end-to-end performance.

Pradeesh L

- Handles RAG model integration, Azure Maps functionality, and Azure deployment, enabling intelligent insights, real-time mapping, and reliable cloud performance.

Thank You!

Explore Urban.IQ

GitHub

Demo Video

Website

Microsoft

Urban.IQ

“A better community is built when everyone has the tools to move, connect, and participate.”