Citizen AI - Project Documentation

1. Introduction

• **Project Title: Citizen AI**

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Citizen AI is designed to assist citizens and local authorities by providing insights into city services, analysis, and engagement tools. It enables users to interact with city data, gain policy summaries, and access public service recommendations in a user-friendly way.

2. Project Overview

• Purpose:
The purpose of Citizen AI is to empower citizens and officials with AI-driven insights for better decision-making. It helps analyze cities, provide service-related guidance, and engage communities effectively.

• Features:
- Conversational Interface for citizen queries
- City Analysis tools
- Public Services Assistant
- Policy Summarization
- Feedback and Engagement module
- User-friendly Gradio-based Interface

3. Architecture

• Frontend: Gradio-based web UI
• Backend: Python with APIs
• LLM Integration: Hugging Face models
• Modules: City analysis, public service guidance, citizen feedback
• Hosting: Hugging Face Spaces

4. Setup Instructions

Prerequisites:
- Python 3.9 or later
- pip & virtual environment tools
- Internet access

Installation Process:
- Clone the repository
- Install dependencies from requirements.txt
- Run the Gradio app (app.py)
- Open the Hugging Face Space URL

5. Folder Structure

- app.py : Main application entry point
- requirements.txt : Dependencies
- /ui : Frontend Gradio interface components
- /api : Backend API integration
- /assets : Logos, static files, screenshots

6. Running the Application

- Launch the backend by running: python app.py
- Open Hugging Face Spaces hosted link
- Enter required details in login page
- Access City Analysis and Public Services tabs

## 7. User Interface

The Citizen AI interface includes:
- Login Page with user details
- City Analysis module
- Public Services module
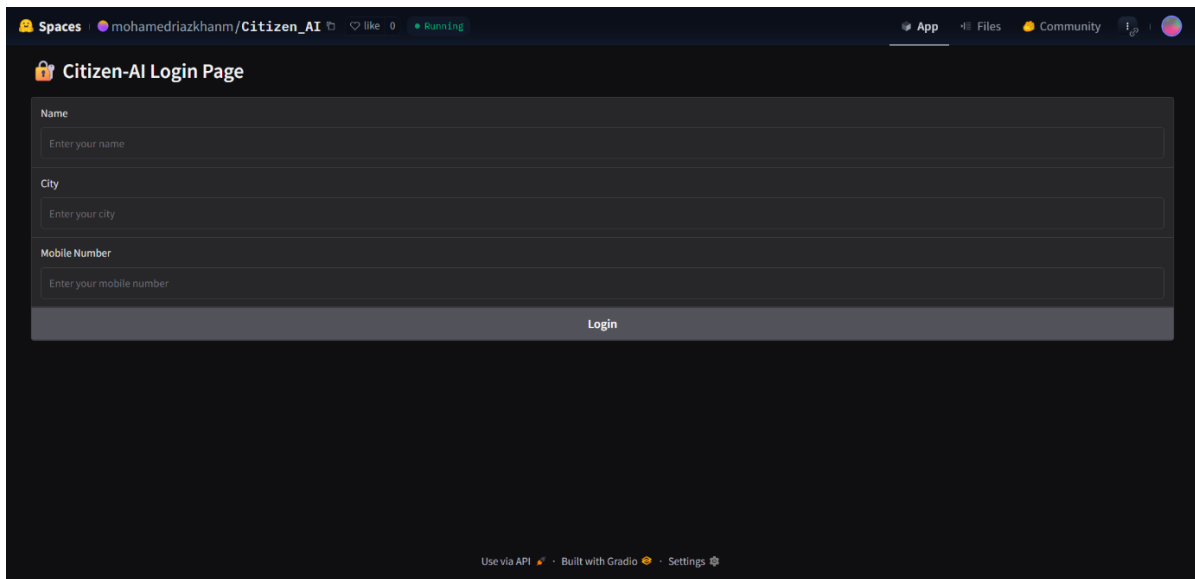- Minimalist design with focus on accessibility

8. Testing

Testing performed includes:
- Unit Testing: Backend logic
- Manual Testing: Login page and city analysis features
- API Testing: Endpoint checks
- Edge Case Handling: Invalid inputs, empty forms

9. Screenshots and Demo link
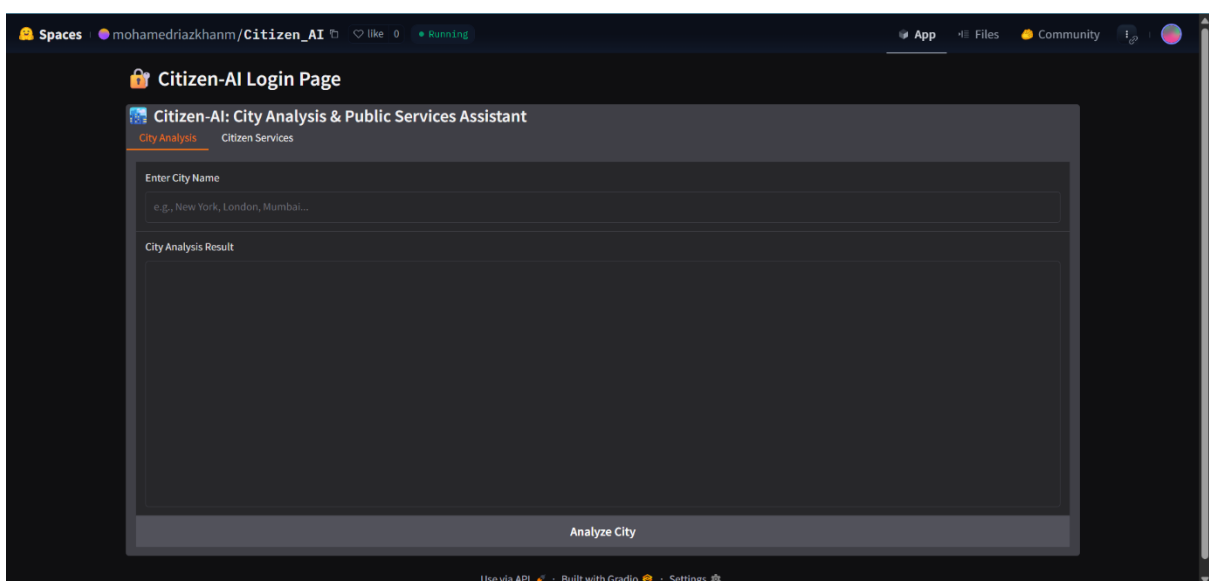
Demo link

https://mohamedriazkhan.github.io/citizen_AI/

10. Future Enhancements

- Advanced AI-driven city recommendations
- Integration with real-time open datasets
- Multi-language support for wider accessibility
- Role-based authentication for officials vs citizens