Project Title:

Multilingual Virtual Tour Assistant for Local Navigation

Project Description:

This project aims to create a multilingual virtual assistant app designed to assist tourists in navigating essential services and locations, such as nearby railway stations, cab stands, pharmacies, medical centers, and ATMs. Using GPS data, language translation services, and AI-based recommendations, the app provides real-time guidance tailored to each user's native language, making local exploration simpler for international travelers.

Key Features:

1. Language Selection and Multilingual Support

At the start, users select their preferred language. The app then provides directions, recommendations, and instructions in this language.

Integration of language APIs (e.g., Google Translate or open-source alternatives) to support multiple languages.

2. Location-Based Service Recommendations

Use GPS to locate and display nearby essential services, such as transportation hubs (railway stations, bus stations, taxi stands), healthcare (pharmacies, hospitals), ATMs, and convenience stores.

Provide real-time directions to these locations, with information on estimated arrival times. (Optional)

3. Local Information and Cultural Tips

Display culturally relevant tips, like local customs, language phrases, or etiquette. This can help travelers understand the location and avoid common misunderstandings.

Include important contact information for local embassies, tourist assistance hotlines, and emergency numbers.

4. User-Friendly Design

Simplify the app’s interface so it’s easy to use for people of all ages and backgrounds. This is particularly important for travelers who may be in an unfamiliar environment.

Integrate accessibility features, such as text-to-speech for users with visual impairments. (Optional)

If time permits then add NLP features where tourists can query the system using simple phrases like “where is the nearest pharmacy” or else you can stick to selection based navigation.