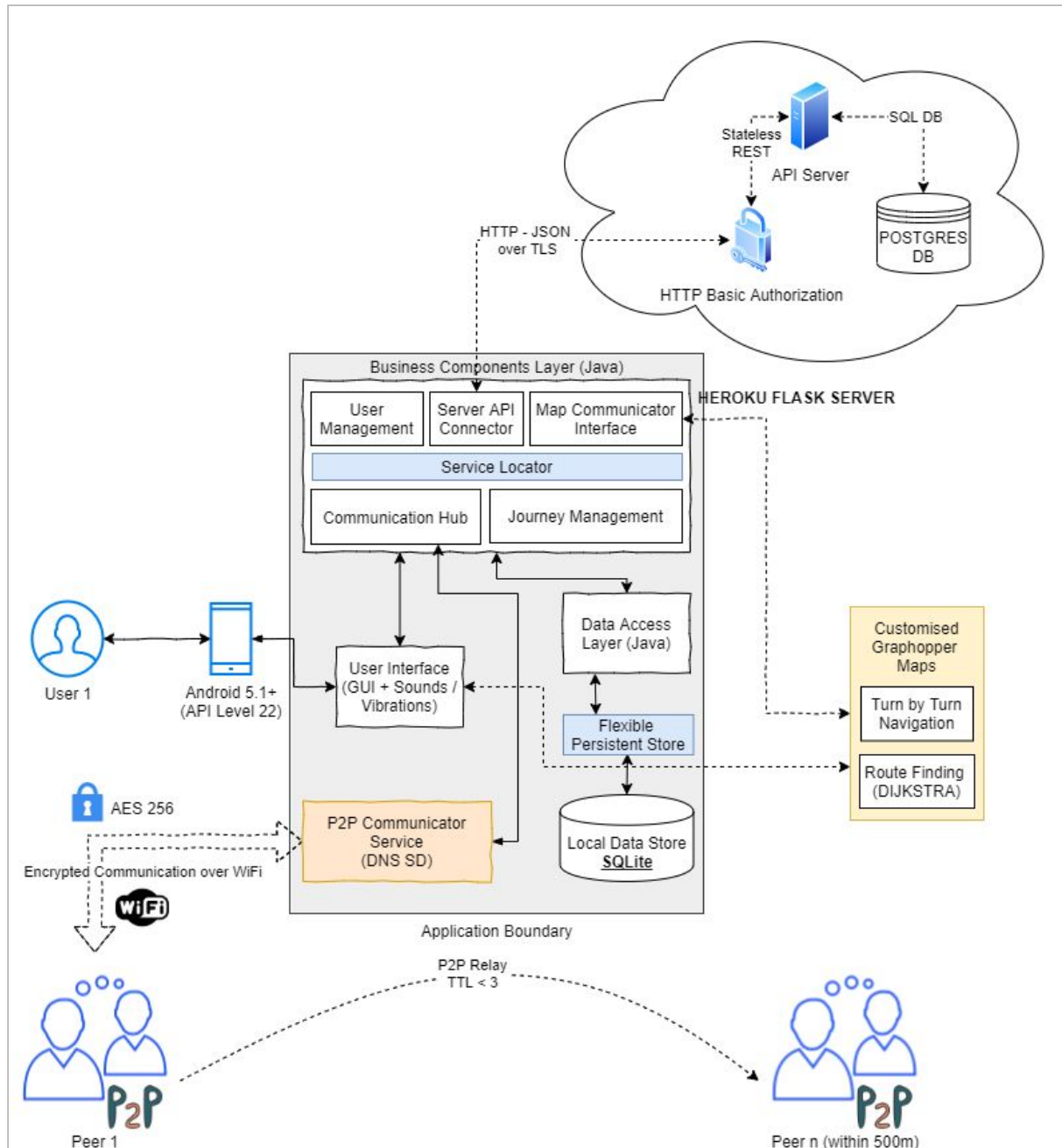


TECHNICAL ARCHITECTURE



Application:

- The Journey planning application developed for Android OS 5.1 and above.
- Java is used for android app development.
- For the backend, Python is used with PostgreSQL database

Journey Management:

- Users can post the journey in real-time using DNS based Service Discovery for peer to peer communication.
- A local database is maintained on the user's device to facilitate the usage of the app in Internet-less scenarios using SQLite. (Persistence Store)
- Heroku Flask Server is used using Postgres Database to store user's information.

Route Optimization:

OpenStreetMaps (OSM) map is used with files stored on the device's offline storage for real-time route navigation.