

Front-end

Web Page (Optional):

- *HTML* and *CSS* for page decoration;
- *JavaScript* for User Interaction;
- *React.js* or *VUE.js* for GIS visualization

GIS Database:

- *PostGIS* for geospatial data storage, queries and GIS analysis;
- *Docker* for environment and API;

LLM Query Model:

- *AnythingLLM* for LLM model deployment;
- *Docker* for environment and API;
- *Ollama* for local model or ChatGPT for LLM API;
- *LenceDB* is used to provide the database Schema;

Server API:

- *Flask* for local server building or Lambda for cloud deployment;
- *Psycopg2* for PostGIS Connection

LLM Chat Model:

- *AnythingLLM* for LLM model deployment;
- *Docker* for environment and API;
- *Ollama* for local model or ChatGPT for LLM API;

Back-end

Return response

Send message

Return results

Query database

Generate SQL

Send the Prompt

Send user's message

Reply or prompt the Query Model