Project 3: Real Estate

We are illustrating average home prices across the 50 states. Our objective is to analyze this data based on mortgage rates and specific home features such as the number of bedrooms, bathrooms, and lot sizes.

1. Data Collection and Storage:

Gather a dataset with at least 100 records of sales data.

Create an Postgresql database to store this data. Using Python to process data.

2. User Interaction:

Implement dropdowns, or textboxes to allow users to filter and customize the data they want to see. Based on the state.

3. JavaScript:

Use JavaScript to handle user input

4. Visualization:

Incorporate a JavaScript charting library like D3.js for data visualization.

Create at least three different views or charts to represent various aspects of the sales data. For example:

A bar chart showing yearly sales trends, using charts.js

A Map distribution.

A line chart showing sales by region over time. Can you the dropdowns, if possible, to filter by state.

5. Flask API Endpoints:

Define Flask routes and endpoints to serve data to the frontend based on user selections.

Implement routes for filtering, sorting data.