**Project Overview**

This project uses Python and the **Folium** library to visualize routes between two locations: Academic City KHDA and Global Village in Dubai. The map is interactive and highlights two different paths (E311 and E611) with their respective markers and routes.

**Key Features**

1. **Coordinate Mapping**:
   * Defined the geographical coordinates of Academic City KHDA and Global Village.
   * Represented each route as a series of waypoints (latitude and longitude).
2. **Route Visualization**:
   * **E311 Route**: Shown in green with a tooltip.
   * **E611 Route**: Shown in red with a tooltip.
3. **Markers**:
   * Placed distinct markers on Academic City KHDA (blue) and Global Village (red) to indicate the start and end points.
4. **Map Customization**:
   * Centered the map between the two locations for optimal viewing.
   * Adjusted zoom and visual clarity.
5. **File Output**:
   * Saved the map as an HTML file for easy sharing or hosting.
6. **Browser Automation**:
   * Automatically opened the generated HTML map file in the default web browser for immediate interaction.

**How to Run**

1. Install the required libraries using pip install folium.
2. Copy the code into a Python file (e.g., route\_map.py).
3. Run the script, which generates an HTML map file and opens it in the browser.

**Enhancement Ideas for GitHub**

* Add descriptions of Dubai landmarks along the routes.
* Include travel times or distances using real-world data.
* Use different icons for markers to indicate significance.
* Integrate with **OpenStreetMap** or APIs like Google Maps for dynamic route planning.