

Python Application for the virtual tour of famous museums and galleries in the world.

The goal of this application is to get through the boredom of the staying home, people can visit and enjoy famous museums and galleries in the world, virtually, using street view. This application aims to be the simplified version of the Google Arts & Culture.

Requirements

- Preformed database (JSON) which contains a recommendation list of the famous museums and the information about the place
- Libraries: requests
- APIs: Google Maps API
 - street view link → free
 - places details pricing → free monthly up to 10,000 calls, and then about USD 0.02 per each call

Steps

1. Parse the preformed JSON file and store it to a local variable.
2. Show the sorted list of the countries to the user and get user choice.
3. Show the recommended museum list in the selected country, and get user choice. The user should be able to go back to the country list by selecting 'go back' menu.
4. Show the basic information about the selected museum such as location, website, phone number, and simple description, and get user choice if the user wants to visit it virtually or go back to the previous menu.

The information about the place should be requested to Google Maps every day when the program starts first of the day, to show the recent version. It may be stored in a separate file (JSON) so that it can be managed easily.

5. If the user chose to visit the place, open the street view page on the web browser and the program is closed.

Challenge Points

- Get Google Maps API key and access to the data successfully
- Call the API data only once a day when the program is executed for the first time of the day
- Built a logic that automatically generates a URL from the database to open the street view page