

# HOLIDAY PLANNER

*group 7*



# MAIN GOAL

*planning a trip*



BeautifulSoup

# PROGRAM DESCRIPTION

*Unlocking personalized travel  
experiences with Python*

Our Python program simplifies the trip planning process. Here's a quick overview:

- 1.Destination Guidance:** recommends travel destinations based on user interests.
- 2.Customized Itineraries:** tailors travel plans to user specifications, considering factors like budget, group size, preferred dates, and activity choices (Museums, Parties, or Food).
- 3.Smart Recommendations:** utilizes a suitable database to give intelligent destination suggestions aligned with user preferences.
- 4.Flexibility in Planning:** allows users to easily customize itineraries to match their group's unique interests and create a plan in few minutes.



# RECOMMENDATION

*»Do you already have a destination in mind, or would you like a recommendation?“*

Our travel organization program is designed to cater to your unique travel preferences. Here's how it works:

**1. Destination Inquiry:**

We begin by asking if you already have a destination in mind or if you'd like a recommendation to discover new possibilities.

**2. Recommendation Process:**

If you seek a suggestion, the program follows a structured set of questions to refine your ideal destination. These include:

- **Continent**
- **Country**
- **Geography**
- **Weather**

# DESTINATION

*finding the perfect destination for you*

Once we've got your travel preferences in hand, our program gets to work, diving into a specially designed database powered by SQLite. This database is a collection of cities worldwide, each tagged with key characteristics like continent, country, geography, and climate.

Here's how it works:

**1. Research:**

Our program takes a deep dive into the database, searching for cities that match up with your specific preferences.

**2. List Creation:**

Based on your input, the program whips up a curated list of cities that fit the bill.

**3. Decision :**

We hand you the reins by presenting this list. It's your moment to choose the destination that speaks to you the most.

# **FLIGHT & HOTEL**

*returns three options for each one*

Wise Choices on a Budget

**1. Budget Inquiry:**

Let us know your budget and the number of travellers.

**2. Online Search:**

Our program searches the web for the best options available.

**3. Top Three Recommendations:**

We provide three top-flight and accommodation choices, perfectly aligned with your budget and group size.

Advantages:

Optimal choices made easy. Streamlined decision-making for a stress-free travel experience.

Explore travel options tailored just for you.



# ACTIVITIES

*Generates personalized activity recommendations for your chosen city.*

With the use of Beautiful Soup and Selenium, our program engages in web scraping across different websites. It compiles a detailed day-by-day list of activities for your vacation, taking into account user preferences during the activity processing

- 1. Accessing Websites with Selenium:** We utilize Selenium to dynamically interact with websites. This enables us to automate the login process, simulating user interactions to obtain the necessary information.
- 2. Data Extraction with BeautifulSoup and selenium:** we extract crucial information from HTML pages. Thanks to this library, we can navigate and isolate data with precision.
- 3. Temporal Organization:** We create a detailed list of activities, organized day by day. But that's not all: we implement a system that searches and arranges activities based on the user's personal preferences, ensuring a personalized and tailored experience for every vacation.
- 4. Incorporating Personal Preferences:** Activities are sought and sorted, taking into careful consideration the individual's preferences. Whether they are interested in local culture, outdoor activities, or gastronomy, our program adapts to make the vacation an unforgettable experience.