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European Tourist Travel Project 3

Purpose of our Project

We set out to create a web application that would allow a user to explore travel trends in Europe gathered from a dataset we found on Kaggle. Our data explores how, when, and why travelers visited various cities in Europe. We want our application to be used as an inspirational tool to help plan vacations in Europe.

About our Dataset

Our data provides us with various components of travel through Europe to help us understand how people prefer to travel in the cities. We can see how they travel to the region, what type of place they prefer to stay in, as well as the reason they traveled to that city. They travel to the regions through Flight, Car, Bicycle, Bus, and Train. The dataset provides hotels, Airbnb's, and camping as accommodation types. The possible purposes of travel include Leisure, Business, and Family.

Data Cleaning

For data cleaning we were concerned about having the ability to create a map. We weren't provided with a longitude or latitude, so we needed to create a new csv file that included that information. Once we did that, we created a SQLite database from our new csv.

Research Questions:

1. What reason of travel had the most money spent on it?

- Family visits account for the most money spent traveling at \$925,024,000.
- Business was second at \$863,977,000.
- Leisure was Third at \$811,377,000.

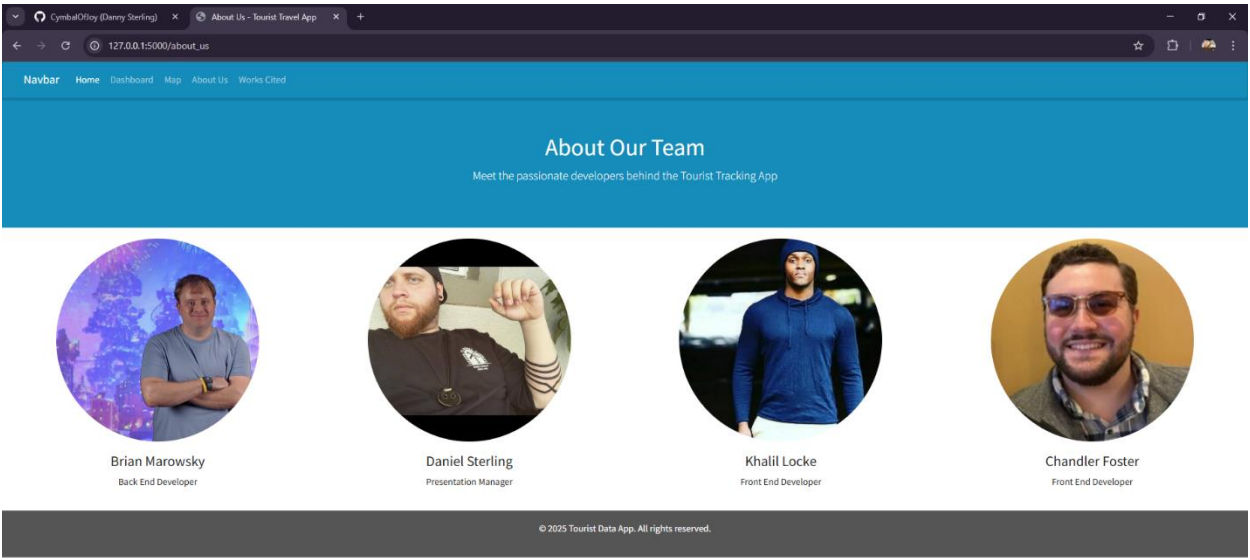
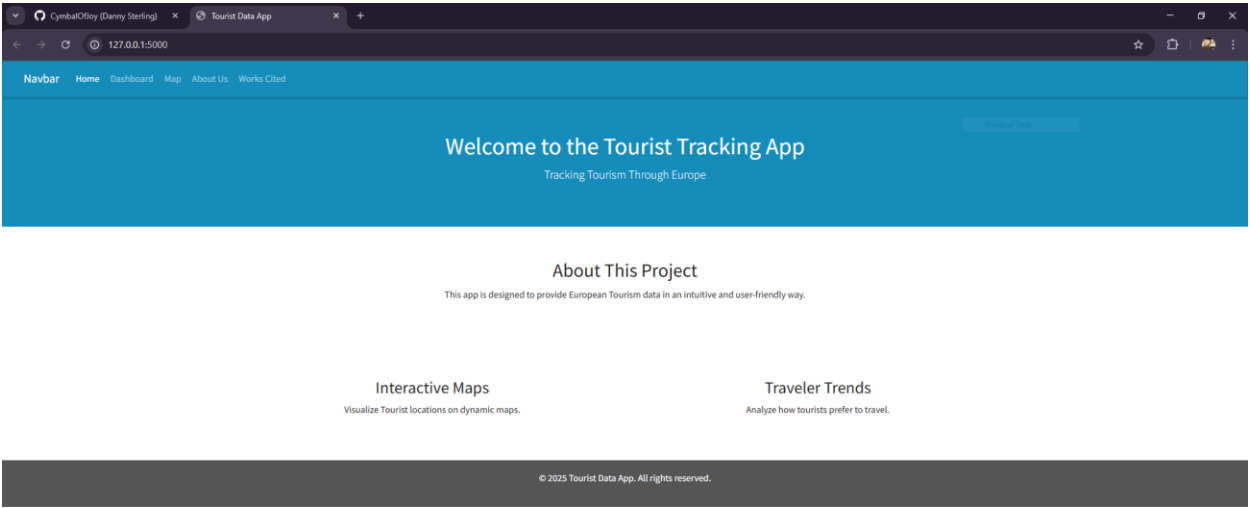
2. What mode of travel is the most common?

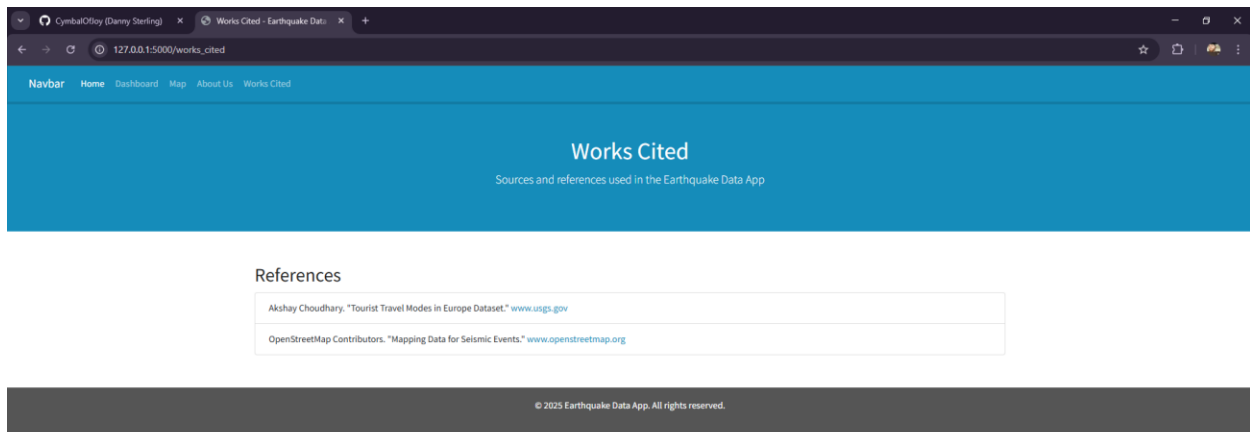
- Flight is the most common form of transportation to Europe.
- Bicycles were also very popularly used. This makes sense considering how common a mode of transportation it is for Europe.
- This is for the same reason that cars are uncommon. Many of the roads in Europe are smaller than average which better accommodates a bicycle rather than a car.

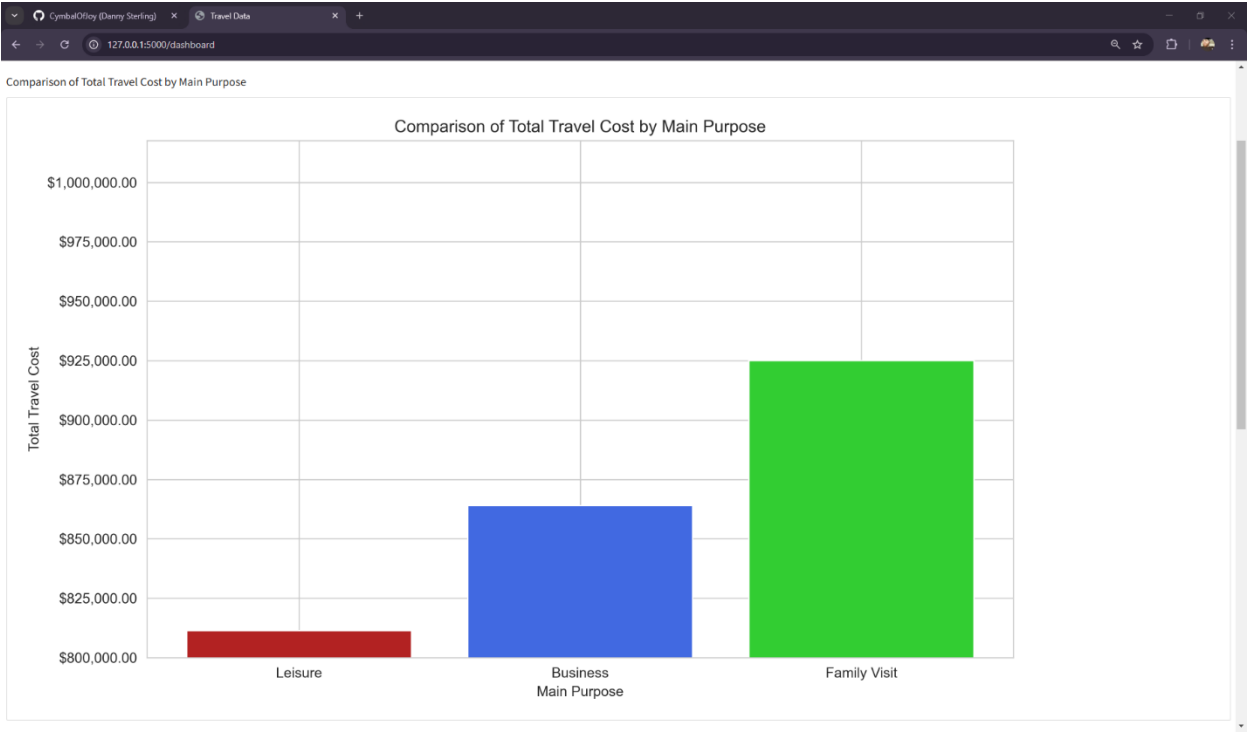
3. What countries received the most visitors?

- Greece and Portugal each occupied 11.2% of our dataset, tying for the highest.
- Germany was close behind at 11.0%
- Austria and Switzerland were both in the low 10.0%
- France, Italy, Spain, Netherlands, and UK all were less than 10% each of our dataset, with UK being the lowest at 8.4%

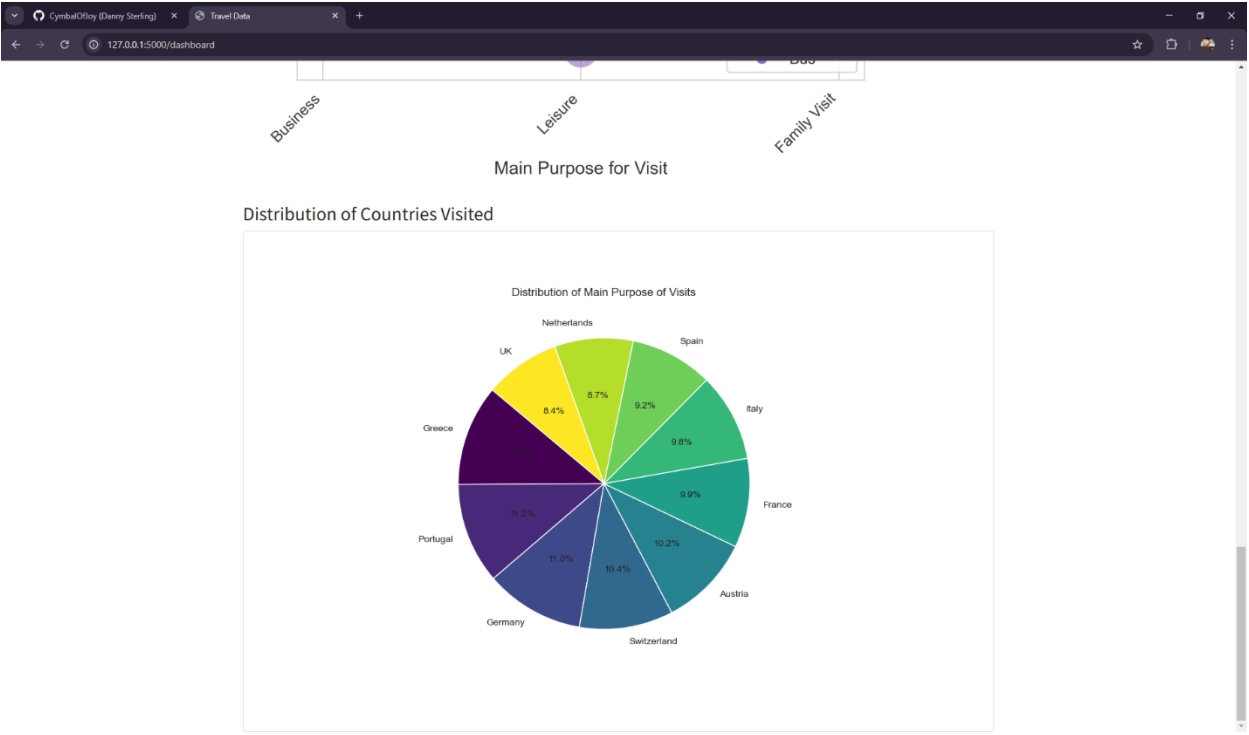
Website







Distribution of Counties Visited



Navbar Home Dashboard Map About Us Works Cited

Travel Data!

Country Visited

Greece

FILTER:

10 entries per page

Search:

City Visited	Country Visited	Travel Duration	Accommodation Type	Main Purpose	Season of Visit
Thessaloniki	Greece	18	Hotel	Family Visit	Fall
Thessaloniki	Greece	14	Hostel	Family Visit	Spring
Thessaloniki	Greece	17	Hostel	Business	Spring
Thessaloniki	Greece	4	Camping	Business	Summer
Thessaloniki	Greece	10	Camping	Business	Fall
Thessaloniki	Greece	10	Camping	Family Visit	Spring
Thessaloniki	Greece	13	Hostel	Business	Spring
Thessaloniki	Greece	5	Hotel	Family Visit	Winter
Thessaloniki	Greece	15	Hostel	Leisure	Summer
Thessaloniki	Greece	15	Airbnb	Leisure	Winter

Showing 1 to 10 of 224 entries

1 2 3 4 5 ... 23

Comparison of Total Travel Cost by Main Purpose

Comparison of Total Travel Cost by Main Purpose

CymbalOfJoy (Danny Sterling)Travel Data

127.0.0.1:5000/dashboard

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Travel Data!

Country Visited

Spain

FILTER

10 entries per page

Search

City Visited	Country Visited	Travel Duration	Accommodation Type	Main Purpose	Season of Visit
Seville	Spain	14	Hotel	Business	Spring
Seville	Spain	7	Hotel	Family Visit	Spring
Seville	Spain	9	Camping	Business	Fall
Seville	Spain	4	Airbnb	Leisure	Winter
Seville	Spain	13	Camping	Business	Summer
Seville	Spain	3	Hostel	Family Visit	Fall
Seville	Spain	17	Airbnb	Business	Summer
Seville	Spain	12	Camping	Family Visit	Fall
Seville	Spain	9	Airbnb	Business	Spring
Seville	Spain	17	Hotel	Leisure	Winter

Showing 1 to 10 of 184 entries

12345...19

Comparison of Total Travel Cost by Main Purpose

Comparison of Total Travel Cost by Main Purpose

CymbalOfJoy (Danny Sterling)Travel Data

127.0.0.1:5000/dashboard

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Travel Data!

Country Visited

UK

FILTER

10 entries per page

Search

City Visited	Country Visited	Travel Duration	Accommodation Type	Main Purpose	Season of Visit
Manchester	UK	14	Hotel	Business	Summer
Manchester	UK	12	Camping	Business	Spring
Manchester	UK	2	Hotel	Business	Winter
Manchester	UK	10	Hostel	Leisure	Winter
Manchester	UK	15	Airbnb	Family Visit	Spring
Manchester	UK	17	Camping	Family Visit	Winter
Manchester	UK	6	Camping	Family Visit	Winter
Manchester	UK	5	Camping	Family Visit	Spring
Manchester	UK	13	Hotel	Business	Fall
Manchester	UK	5	Camping	Leisure	Fall

Showing 1 to 10 of 168 entries

12345...17

Comparison of Total Travel Cost by Main Purpose

Comparison of Total Travel Cost by Main Purpose

Data Limitations and Bias

Since selecting our dataset on Kaggle and downloading our CSV, it has been removed from the site. This hindered our ability to reference the work that had already been done with our data. Our dataset was designed to give us select information from all our travel destinations. It would have been better to have a larger dataset that pulls more information. The CSV was designed to give a general idea of how people travel in various European countries, instead of a thorough detail of their travel choices.

Conclusions

Some conclusions we have gathered from this dataset were that flying was the most common method of travelling to move across Europe. The two most popular destinations were Greece and Portugal. Family Visits were the most common reason for those who the data was collected from. Some unexpected conclusions we came across were that Business travel was more common than leisure travel. Bicycles were more common than cars across Europe. Finally, out of all the countries in Europe, the least chosen destination was the UK.

Call to Action

Some ideas to take note of are when visiting countries in Europe, while flying may be the most popular option, one should not rule out other options such as trains, and depending on the country/city one is visiting, use of Bicycle. Those looking to avoid popular tourist areas should look at countries such as the UK or the Netherlands.

Future Work

It would be beneficial to expand the range of demographics that the data could be collected from as the initial 1000 entries is small compared to the number of those who visit Europe on an annual basis. It would also show more a defined view of trends, visit types, and mode of transportation.