

MEETPLACE

"Where reunions happen"

Final Project 05-2021
Data Analytics Bootcamp
Ironhack Barcelona

by Marta Coll

Business Problem





Friends live around the world



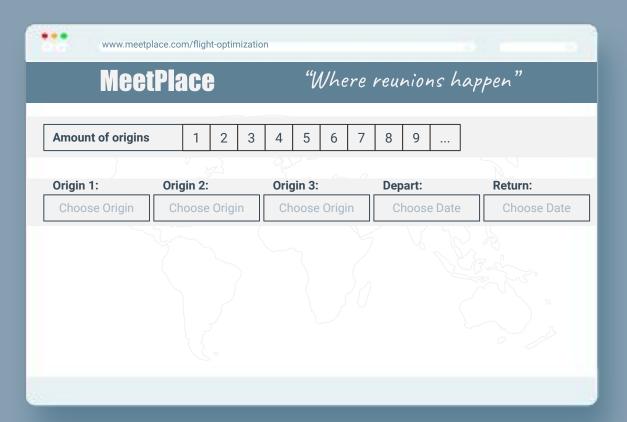
They want to meet for holiday

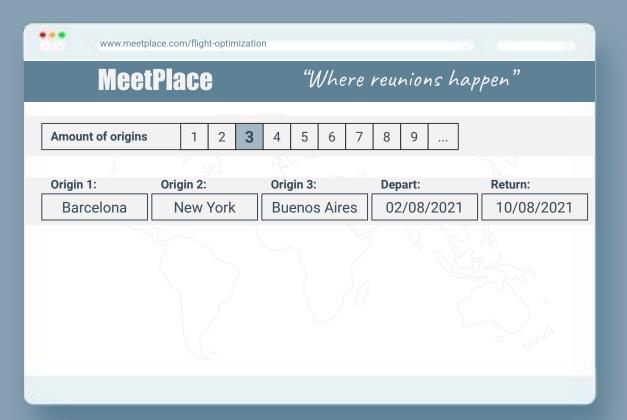


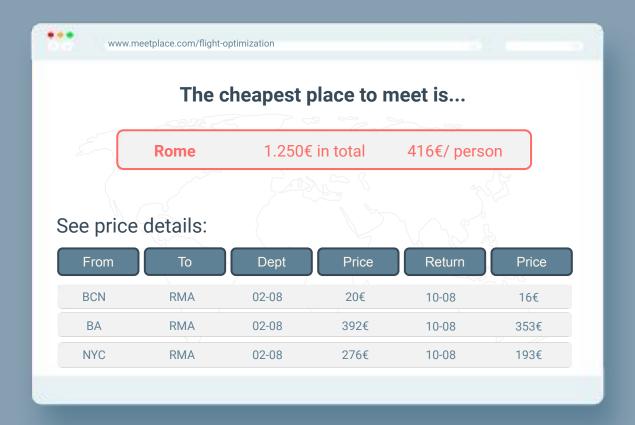
At the cheapest price possible



In a place "in the middle"







From: ['Barcelona', 'New York City', 'Buenos Aires']

You should meet in: Rome

For a total price of: 1250 €

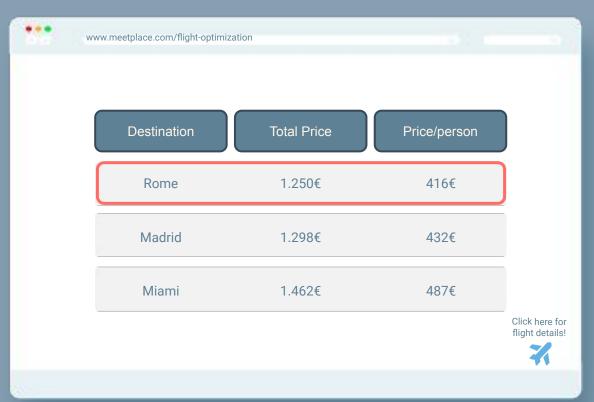
Price per person: 416 €

See the prices of each flight:

69.	departure_city	departure_date	departure_flight_price	destination_city	return_date	return_flight_price	price_departure_and_return
0	Barcelona	2021-08-02	20.0	Rome	2021-08-10	16.0	36.0
1	New York City	2021-08-02	276.0	Rome	2021-08-10	193.0	469.0
2	Buenos Aires	2021-08-02	392.0	Rome	2021-08-10	353.0	745.0

Business Problem 2





From: ['Barcelona', 'New York City', 'Buenos Aires']

You should meet in: Rome For a total price of: 1250 € Price per person: 416 €

See the prices of each flight:

New feature!

-	departure_city	departure_date	departure_flight_price	destination_city	return_date	re'	dight_price	price_departure_and_return
0	Barcelona	2021-08-02	20.0	Rome	2021-08-10		16.0	36.0
1	New York City	2021-08-02	276.0	Rome	2021-01		193.0	469.0
2	Buenos Aires	2021-08-02	392.0	Rom	20° ,-10		353.0	745.0

See other options:

	destination	total_price	price_per_person
0	Rome	1250.0	416.67
1	Madrid	1298.0	432.67
2	Miami	1462.0	487.33

Cool! But we do like Rome, let's meet there!



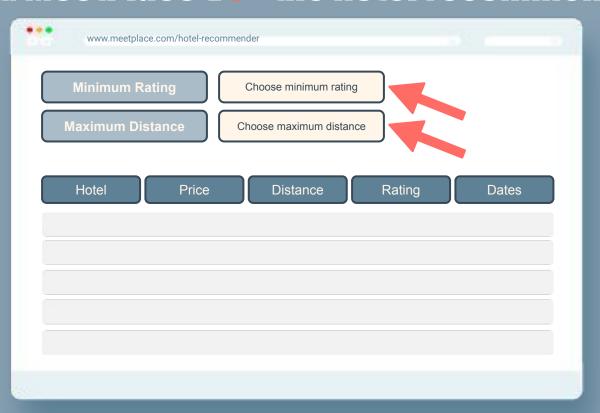
Business Problem 3

None of us have a house in Rome!

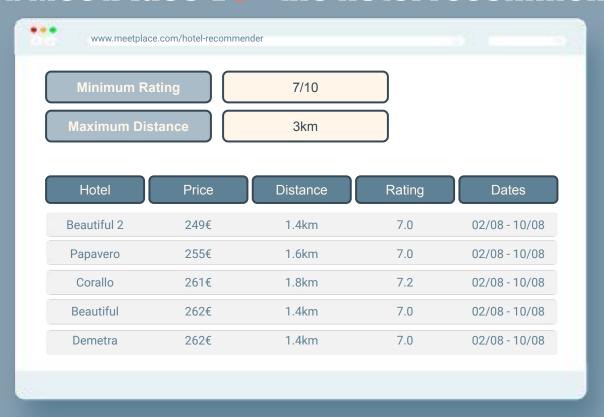


Shall we book a hotel?

Product: MeetPlace V3 - the hotel recommender



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Product: MeetPlace V3 - the hotel recommender

Minimum rating of the hotel (scale of 10): 7
Maximum distance to the center (in km): 3

Destination: Rome

Departure date: 2021-08-02 Return date: 2021-08-10 **New feature!**

With this conditions, MeetPlace recommends:

13	hotel_name	address	price_per_night_and_person	total_price_per_stay_and_person	distance_to_city_center_in_km	rating_scale_10
4	Beautiful Home 2	Via Gaeta 79	31.090000	249.0	1.4	7.0
6	Hotel II Papavero	Via Castelfidardo 50	31.910000	255.0	1.6	7.0
7	Hotel Corallo	Via Palestro 44	32.650002	261.0	1.8	7.2
8	Beautiful Home	Via Goito, 17	32.720001	262.0	1.4	7.0
9	Hotel Demetra Capitolina	Via Principe Amedeo 58	32.730000	262.0	1.4	7.0
10	B&B Giovy Rome	Via Principe Amedeo 85 A	33.340000	267.0	1.4	7.6
12	Hotel Leone	Via Cavour, 47	35.759998	286.0	1.3	8.4
17	Guesthouse Alex II	Via dei Crociferi, 26	39.939999	319.0	1.8	7.8
18	59 Steps Trevi	Via Milazzo 3, scala B, 4th floor	40.279999	322.0	0.2	8.4
20	SunMoon	Via Principe Amedeo 58	40.910000	327.0	1.8	7.4

Business Problem 4

Right now we are choosing the cheapest destination according to flight prices!

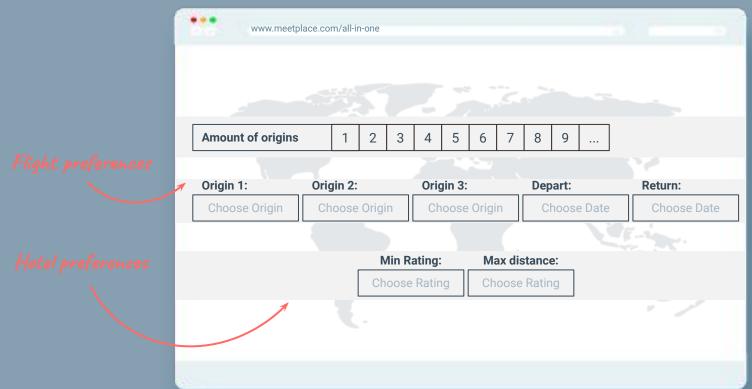
Improvement: choose according to:

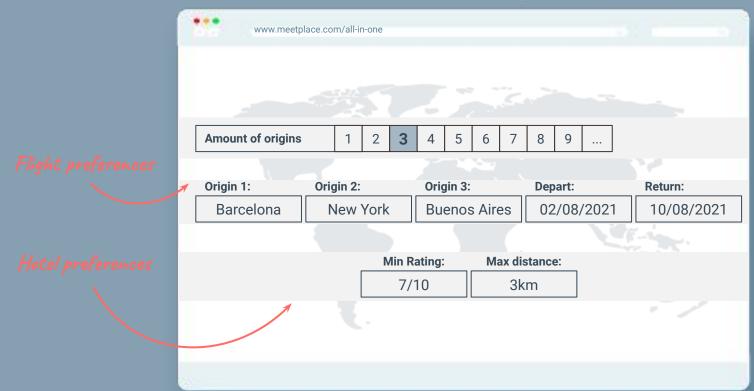


Flight price + Hotel price

THE FINAL PRODUCT

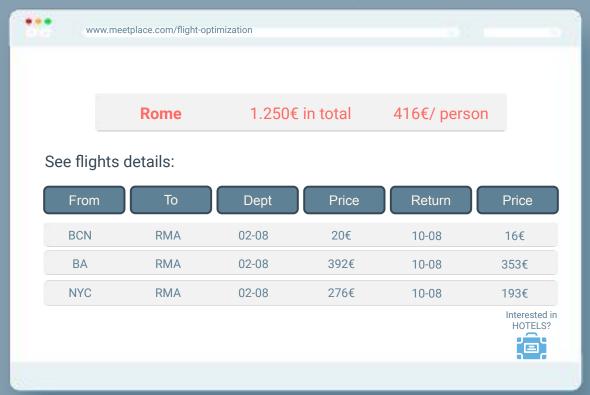


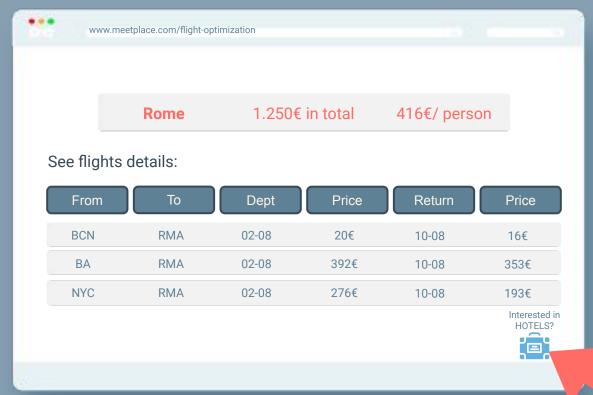


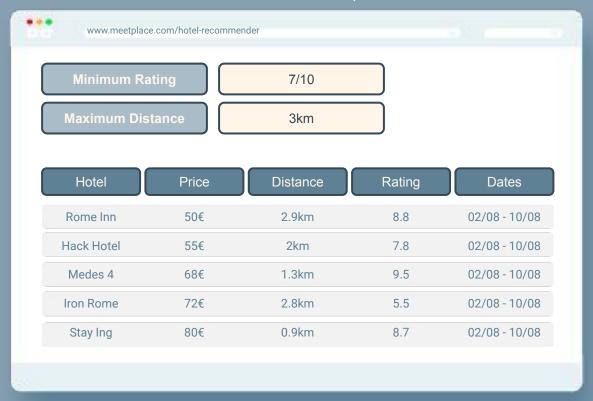












From: ['Barcelona', 'New York City', 'Buenos Aires']

The cheapest place to meet is: Rome

Destination: Rome

Departure date: 2021-08-02 Return date: 2021-08-10 Minimum rating of hotels 7

Maximum distance to city center 3

Total expenditure (flight + average hotel price per stay): 784.55 €

destination flight_price_per_person avg_price_per_stay_and_person total_expenditure

0	Rome	416.67	367.88	784.55
1	Madrid	432.67	670.43	1103.10
2	Miami	486.67	536.00	1022.67

See the prices of each flight:

	departure_city	departure_date	departure_flight_price	destination_city	return_date	return_flight_price	price_departure_and_return
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2	Buenos Aires	2021-08-02	392.0	Rome	2021-08-10	353.0	745.0

With these conditions, MeetPlace recommends you the following hotels:

	hotel_name	address	price_per_night_and_person	total_price_per_stay_and_person	distance_to_city_center_in_km	rating_scale_10
0	Beautiful Home 2	Via Gaeta 79	31.090000	249.0	1.4	7.0
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Further Steps



Flights with stopovers: The cheapest flight may not be direct. Example: BCN - RTM = 35 hours.



Accommodation Limits: Hotels checked only according to hotels.com website.



Accommodation price: Average of the 25 cheapest hotels according to preferences selected.



Running Time: SkyScanner only allows 50 requests per minute. First example took 12:30 mins.



Thank you for listening!

Special thanks to:
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Neema, Nicolò and Thom.