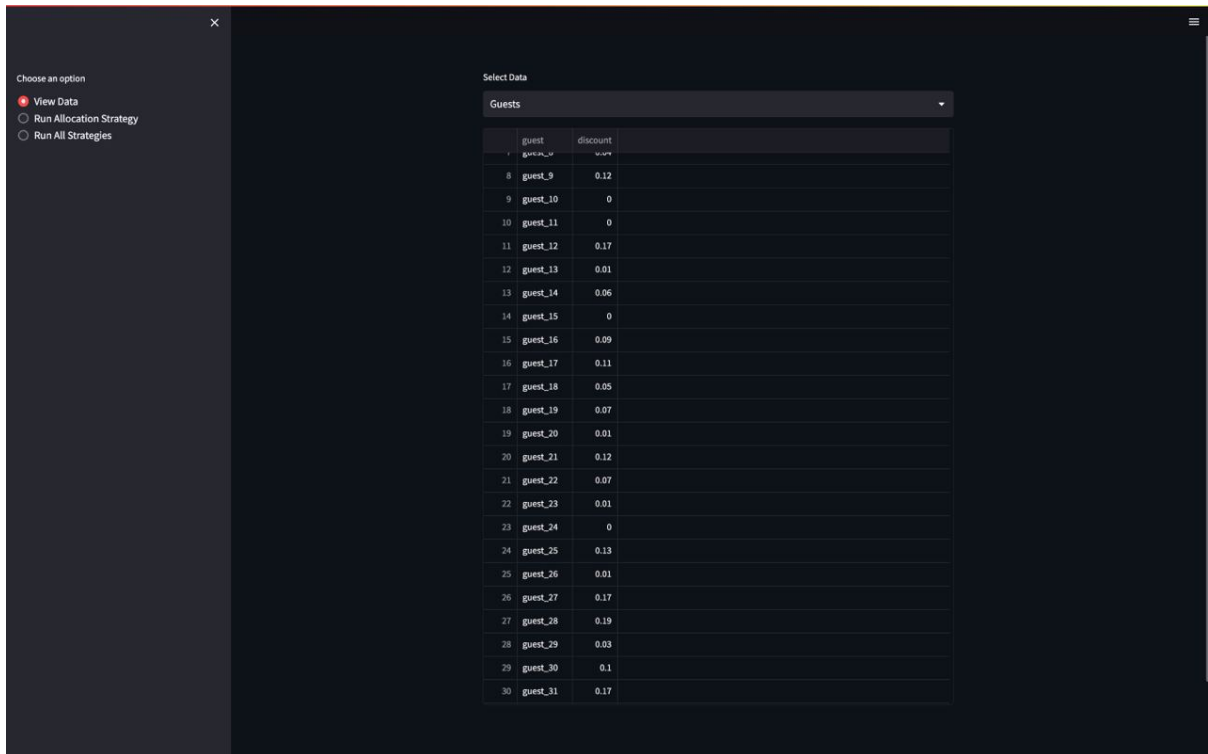
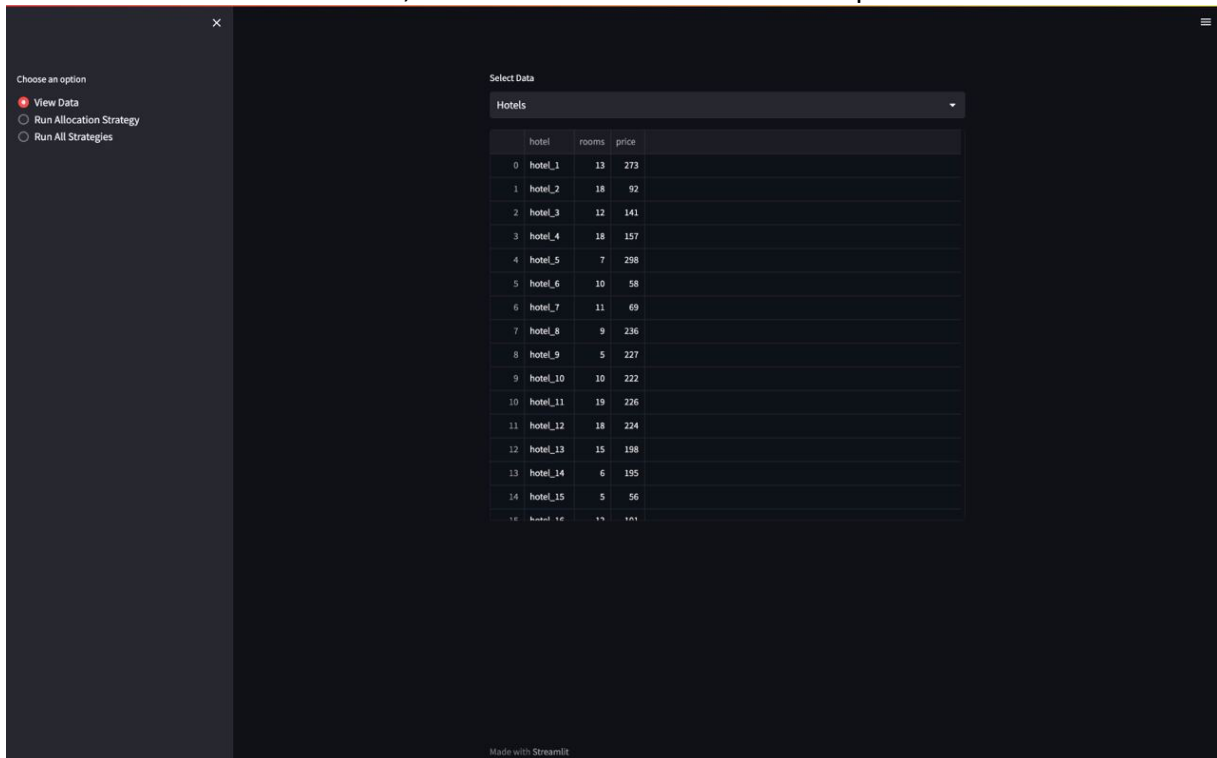


Guest Data page: This page shows a table with information about the guests. Each row represents a guest with a unique identifier and a discount rate applied to him.



	guest	discount
7	guest_8	0.12
8	guest_9	0.12
9	guest_10	0
10	guest_11	0
11	guest_12	0.17
12	guest_13	0.01
13	guest_14	0.06
14	guest_15	0
15	guest_16	0.09
16	guest_17	0.11
17	guest_18	0.05
18	guest_19	0.07
19	guest_20	0.01
20	guest_21	0.12
21	guest_22	0.07
22	guest_23	0.01
23	guest_24	0
24	guest_25	0.13
25	guest_26	0.01
26	guest_27	0.17
27	guest_28	0.19
28	guest_29	0.03
29	guest_30	0.1
30	guest_31	0.17

Hotel Data page: This page displays a table containing a list of hotels. Each entry in the table includes the name of the hotel, the number of rooms in it and its price.



	hotel	rooms	price
0	hotel_1	13	273
1	hotel_2	18	92
2	hotel_3	12	141
3	hotel_4	18	157
4	hotel_5	7	298
5	hotel_6	10	58
6	hotel_7	11	69
7	hotel_8	9	236
8	hotel_9	5	227
9	hotel_10	10	222
10	hotel_11	19	226
11	hotel_12	18	234
12	hotel_13	15	198
13	hotel_14	6	195
14	hotel_15	5	56
15	hotel_16	15	141

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Preference Data page: This page lists the preferences of each guest regarding the choice of a hotel. Each entry contains the guest's ID, the hotel he prefers, and the priority number. This indicates the order of preference, with smaller numbers having higher priority.

Choose an option

- ☒ View Data
- ☐ Run Allocation Strategy
- ☐ Run All Strategies

Select Data

	guest	hotel	priority
0	guest_1	hotel_168	1
1	guest_1	hotel_207	2
2	guest_1	hotel_222	3
3	guest_1	hotel_124	4
4	guest_1	hotel_223	5
5	guest_1	hotel_297	6
6	guest_1	hotel_129	7
7	guest_1	hotel_12	8
8	guest_1	hotel_1	9
9	guest_1	hotel_129	10
10	guest_1	hotel_46	11
11	guest_1	hotel_343	12
12	guest_1	hotel_338	13
13	guest_1	hotel_90	14
14	guest_1	hotel_269	15
15	guest_1	hotel_237	16
16	guest_1	hotel_22	17
17	guest_1	hotel_97	18
213	guest_10	hotel_60	1
214	guest_10	hotel_317	2
215	guest_10	hotel_95	3
216	guest_10	hotel_22	4
217	guest_10	hotel_319	5
218	guest_10	hotel_279	6
219	guest_10	hotel_279	7

Detailed results for the **pricing strategy**: This section presents the results of the "Price" distribution strategy, showing which hotel is the cheapest from this and the distribution begins to the most expensive

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Detailed results for a **random strategy**: Here are the results of a random distribution of rooms without taking into account price or preferences.

Choose an option

View Data

Run Allocation Strategy

Run All Strategies

Select Allocation Method

Random

Run Strategy

Detailed Results for Random Strategy

Guest	Allocated Hotel	Satisfaction Rate (%)	Earned Money
0	guest_3872	hotel_1	0
1	guest_3943	hotel_1	0
2	guest_2261	hotel_1	0
3	guest_2118	hotel_1	0
4	guest_2386	hotel_1	0
5	guest_3661	hotel_1	0
6	guest_662	hotel_1	100
7	guest_676	hotel_1	0
8	guest_1143	hotel_1	0
9	guest_3294	hotel_1	0
10	guest_1811	hotel_1	0

Summary Statistics

	Number of customers accommodated	Number of rooms occupied	Total volume of business	Customer's
0		4,000	4,000	634,618.67 6.425%

Earnings by Hotel for Random Strategy

Hotel	Earnings
0	hotel_1 3,549
1	hotel_2 1,656
2	hotel_3 1,692
3	hotel_4 2,836
4	hotel_5 2,086
5	hotel_6 580
6	hotel_7 759
7	hotel_8 2,124
8	hotel_9 1,135
9	hotel_10 2,220

Detailed report saved to /DOP_3/All_function/excel/random_allocation_strategy.xlsx

Detailed results for the **preference strategy**: This part shows the results of the distribution based on the preferences of guests.

Choose an option

View Data

Run Allocation Strategy

Run All Strategies

Select Allocation Method

Preference

Run Strategy

Detailed Results for Preference Strategy

Guest	Allocated Hotel	Satisfaction Rate (%)	Earned Money
0	guest_1	hotel_168	100
1	guest_10	hotel_60	100
2	guest_100	hotel_73	100
3	guest_1000	hotel_396	100
4	guest_1001	hotel_109	100
5	guest_1002	hotel_88	100
6	guest_1003	hotel_35	100
7	guest_1004	hotel_9	100
8	guest_1005	hotel_330	100
9	guest_1006	hotel_64	100

Summary Statistics

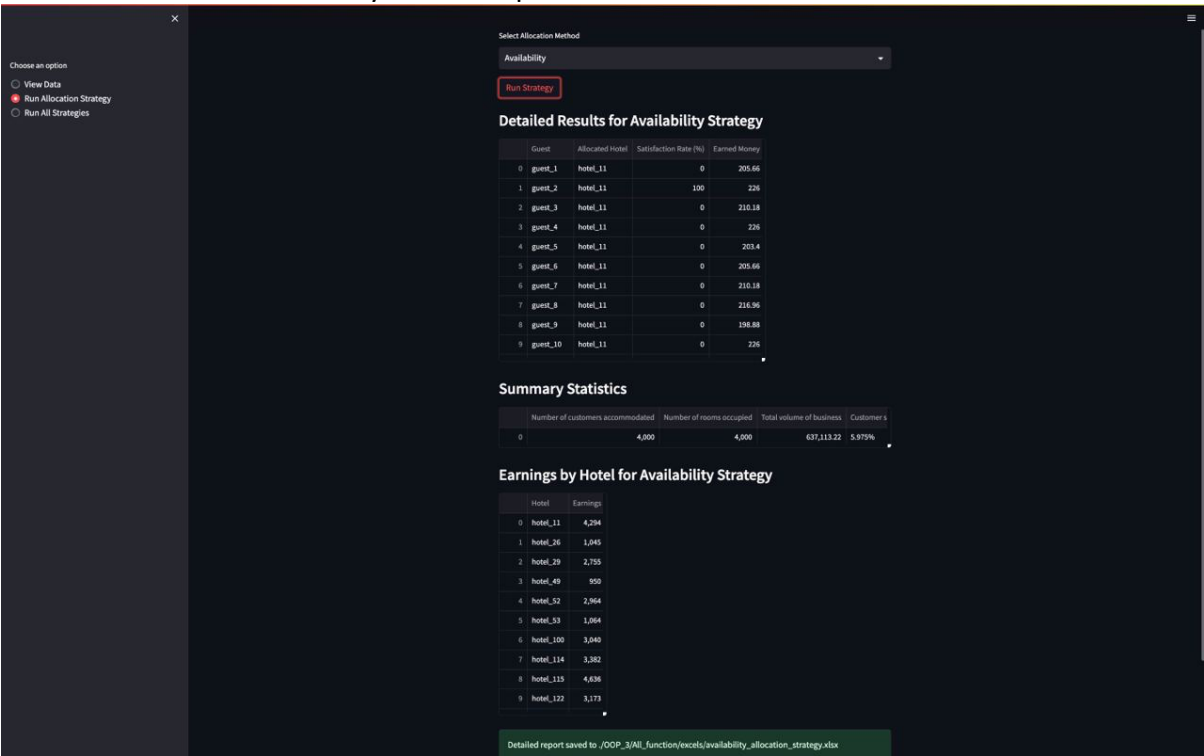
	Number of customers accommodated	Number of rooms occupied	Total volume of business	Customer's
0		4,000	4,000	645,153.36 99.275%

Earnings by Hotel for Preference Strategy

Hotel	Earnings
0	hotel_1 3,549
1	hotel_2 1,656
2	hotel_3 1,692
3	hotel_4 2,836
4	hotel_5 2,086
5	hotel_6 580
6	hotel_7 759
7	hotel_8 2,124
8	hotel_9 1,135
9	hotel_10 2,220

Detailed report saved to /DOP_3/All_function/excel/preference_allocation_strategy.xlsx

Detailed results on the **availability strategy**: Here the results are based on the availability of rooms in order to fill as many rooms as possible.



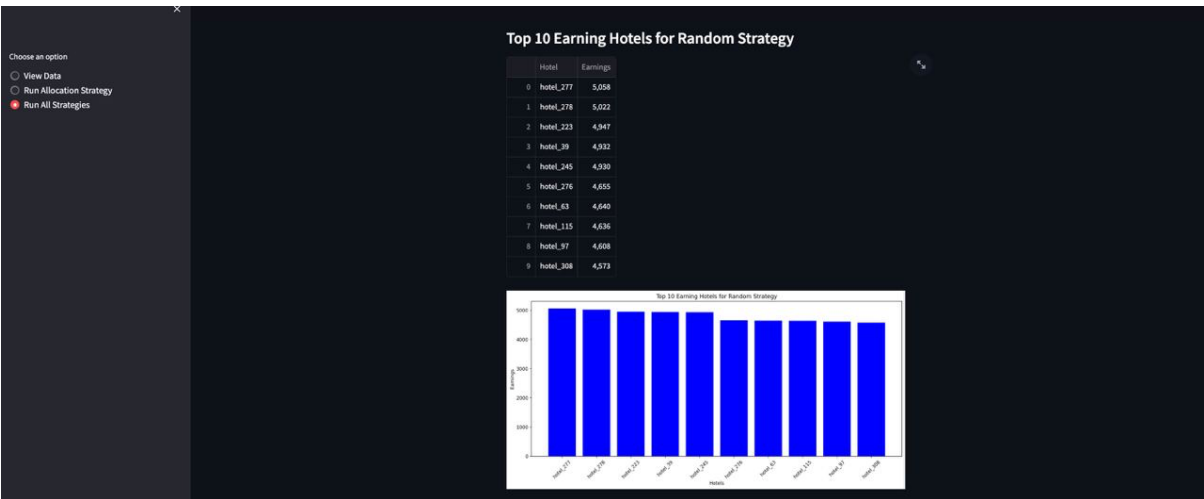
It shows the sum of all hotels for each distribution, we can also notice the success rate of guests (the percentage of priority matching) for each distribution.



Bar plot shows the top 10 hotels that have earned a lot of money with **price strategy**.



Bar plot shows the top 10 hotels that have earned a lot of money with **random strategy**.



Bar plot shows the top 10 hotels that have earned a lot of money with **preference strategy**.



Bar plot shows the top 10 hotels that have earned a lot of money with **availability strategy**.

