

Service for travel agency

Brief description of the system

As part of the project, create the system, that allows you to search for trips by given criteria and their purchase.

Main system functions

Main page

Configuring the trip offer (administrator)

Searching for trips by given criteria

"Purchase" of the trip - calculation of the final amount to pay according to the number of people

(optional) Additional services: car rental, optional trips

(optional) Configuration of passport and visa restrictions

Technologies

Django

(optional) Frontend in Angular and Django REST Framework

Basic entities (proposal)

Continent

name

Country

name

belonging to the continent (foreign key)

City

name

belonging to the country (foreign key)

Hotel

name
standard (stars)
description
belonging to the city (foreign key)

Airport

name
belonging to the city (foreign key)

Trip

from where (City, Airport)
to where (City, Hotel, Airport)
date of departure
date of return
number of days
type: (BB - bed & breakfast, HB – half board, FB – full board, AI – all inclusive)
price for an adult
price for a child
promoted
number of places for adults
number of places for children

Purchase of a trip

trip
participant details
amount

Functionalities

Home page

- presentation of promoted trips

- presentation of upcoming trips (globally)
- presentation of upcoming trips (by continents)
- presentation of upcoming trips (by country)
- presentation of recently purchased trips
- (optional) presentation of trips with a reduced price (mechanism should be added)
- (optional) presentation of trips with only 1 or 2 places left
- each of the following lists should present, for example, 3 entries + link see more directing to search results according to a given criterion, e.g. by clicking the Tenerife link should redirect us to the page with results of searching trips to Tenerife
- continent, country, city, hotel should be clickable and lead to search results
- after clicking on a specific tour, detailed data are presented
- (optional) below the trip we present trips to the same place, but with a later date
- (optional) below the trip we present trips to other hotels from this city
- (optional) under the trip we present trips to other cities from this country

Setting up a tour offer

- the administrator (on a separate page) has the ability to add and edit tours
- the form should make it possible to enter all the parameters of the trip
- you must pre-configure the database of continents, countries, cities, airports and hotels
- (optional) separate sites for managing continents, countries, cities, airports and hotels

Searching for trips by given criteria

- all clickable elements (continents, countries, cities, hotels direct to search results page)
- in addition, the page has a form for filtering and sorting results
- You can search for trips by:
 - city (airport) of departure
 - city (Hotel) of stay
 - departure date (optional range)
 - return date (optional range)
 - type (BB, HB, FB, AI)
 - hotel standard
 - number of days

- you can sort by:
 - price
 - departure date
- (optional) as the amount of data increases, you can enter paging search results

Purchase of a trip

- after choosing a specific trip, you can buy it
- specify the number of adults and children
- if there are enough places available, the trip will be "purchased"
- the number of free places will be reduced
- the price for the trip will be calculated (based on the number of people)
- purchased trips are presented on the administrative page / pages
- (optional), you can group these trips accordingly and add a simple search engine

Additional requirements

- it is necessary to ensure an aesthetic and functional way of presenting data
- data collected from users should be pre-validated