

Prototypes

Would you like to explore the applications that you could build with Amadeus Self-Service APIs? We have prototypes available in [Amadeus for Developers GitHub](#).

There are two types of prototypes (demo apps) available.

- [Official prototypes](#) are managed by Amadeus for Developers team and updated frequently to the latest version of APIs and SDKs.
- [Community prototypes](#) are examples or demo apps that have been built and managed by developer community and it is not supported or maintained by Amadeus for Developers team.

Official Prototypes

Use Cases	Amadeus APIs used	Technology	Details
Flight booking engine	Flight Offers Search, Flight Offers Price, Flight Create Order, Airport & City Search	Python, Django	See details
Hotel Booking engine	Hotel List, Hotel Search, Hotel Booking	Python, Django	See details
Flight Search with Price Analysis & Trip purpose	Flight Offers Search, Flight Price Analysis, Trip Purpose Prediction	Python, Django	See details
Map with Hotels, Point of interests	Hotel List, Points of Interest, Tours and Activities	Python, Django, HERE Maps	See details

Amadeus Flight Booking in Django

- **Demo app:** You can access the demo of the prototype [here](#).
- **Source code:** You can access the source code [on GitHub](#).

The prototype is built with Django and the [Amadeus Python SDK](#) and demonstrates the end-to-end flight booking process, which works in conjunction with three APIs:

- [Flight Offer Search API](#) to search for flight offers.
- [Flight Offer Price API](#) to confirm the availability and price of given offers.
- [Flight Create Orders API](#) to book the given flights.

It also calls the [Airport & City Search API](#) to autocomplete the origin and destination with IATA code.



Amadeus Flight Booking


Available flights

\$426.40

BOOK FLIGHT


Departure

Total duration 5H25M


01:25 BKK → ICN 08:50

Return

Total duration 6H50M


19:35 ICN → BKK 00:25

\$433.78

BOOK FLIGHT

Departure

Total duration 5H20M


02:25 BKK → ICN 09:45

Return

Total duration 6H5M


21:20 ICN → BKK 01:25

BKK → ICN

2023-03-21 ⇄ 2023-03-21

Flying for **BUSINESS** purposes

Entry documents: Health document All permitted inbound travellers must fill out and submit a Health Questionnaire and a Special Quarantine Declaration form while in-flight. Entry can be restricted if the contact information (phone number, address, etc.) on the Special Quarantine Declaration cannot be verified. This requirement is waived for those who have completed the Quarantine Information Advance Input System prior to travel.

Entry tests: All inbound travellers aged six or older, including South Korean nationals, must submit English or Korean certificates of negative results of COVID-19 tests (or English or Korean translations notarised by South Korean Embassies or Consulates) issued in paper. The test must have been taken within two days (48 hours) before their departure dates to be valid. A supervised Rapid Antigen Test (RAT) no older than one day (24 hours) before the departure date is also accepted. All non-South Korean nationals, as well as South Korean nationals departing from Indonesia and Myanmar without valid negative pre-travel COVID-19 test certificates, have been denied boarding on South Korea bound flights. South Korean nationals who recovered from COVID-19 between 10-40 days before departure can be exempted from the pre-travel testing requirement. Documents required for exemption can be found here. Also, travellers with a humanitarian or urgent reason to enter the country including attending funerals or official business reasons are exempted from the pre-departure testing requirement. Additionally, aircrews, Korean sailors departing from Singapore (must hold a Seafarer's Book of the Republic of Korea) and those who are refused entrance at their destination are also exempted. Travellers departing from the Philippines or Uzbekistan must conduct their tests at their respective government-designated testing centres that are recognised by the South Korean Embassies or Consulates in those countries. Similar test centre restriction is possible in other departure countries; check the departure country's South Korean Embassy/Consulate websites for updates. South Korean nationals who arrive without a valid negative pre-travel COVID-19 test certificate and test positive for COVID-19 after arrival have been fined up to KRW 2,000,000.

Amadeus Hotel Booking in Django

- **Demo app:** You can access the demo of the prototype [here](#).
- **Source code:** You can access the source code [on GitHub](#).

The prototype is built with Python/Django and the [Amadeus Python SDK](#). It demonstrates the end-to-end Hotel booking process (Hotel booking engine), which works in conjunction with three APIs:

- [Hotel List API](#) to list the hotels in a specific location.
- [Hotel Search API](#) to search for the offers of given hotels.
- [Hotel Booking API](#) to book the given hotel rooms.

Check-in: 2023-02-15

Check-out: 2023-02-18

Properties returned for MAD

From \$476.85	SHOW ROOMS
AC by Marriott Hotel Aitana	
From \$462.84	SHOW ROOMS
AC by Marriott Hotel Atocha	
From \$411.41	SHOW ROOMS
AC by Marriott Hotel Madrid Feria	

Amadeus Flight Price Analysis in Django

- **Demo app:** You can access the demo of the prototype [here](#).
- **Source code:** You can access the source code [on GitHub](#).

The prototype is built with Python/Django and the [Amadeus Python SDK](#). It retrieves flight offers using the Flight Offers Search API for a given itinerary. Then it displays if the cheapest available flight is a good deal based on the Flight Price Analysis API. We finally predict if the trip is for business or leisure using the Trip Purpose Prediction API.

MAD → CDG
2023-03-21

FLIGHT OFFERS

\$52.38

Departure Total duration 2H

IBERIA 19:55 MAD → CDG 21:55

PRICE ANALYSIS

The cheapest available flight is **A GOOD DEAL**.

The least expensive flights usually cost between \$96.49 - 164.05

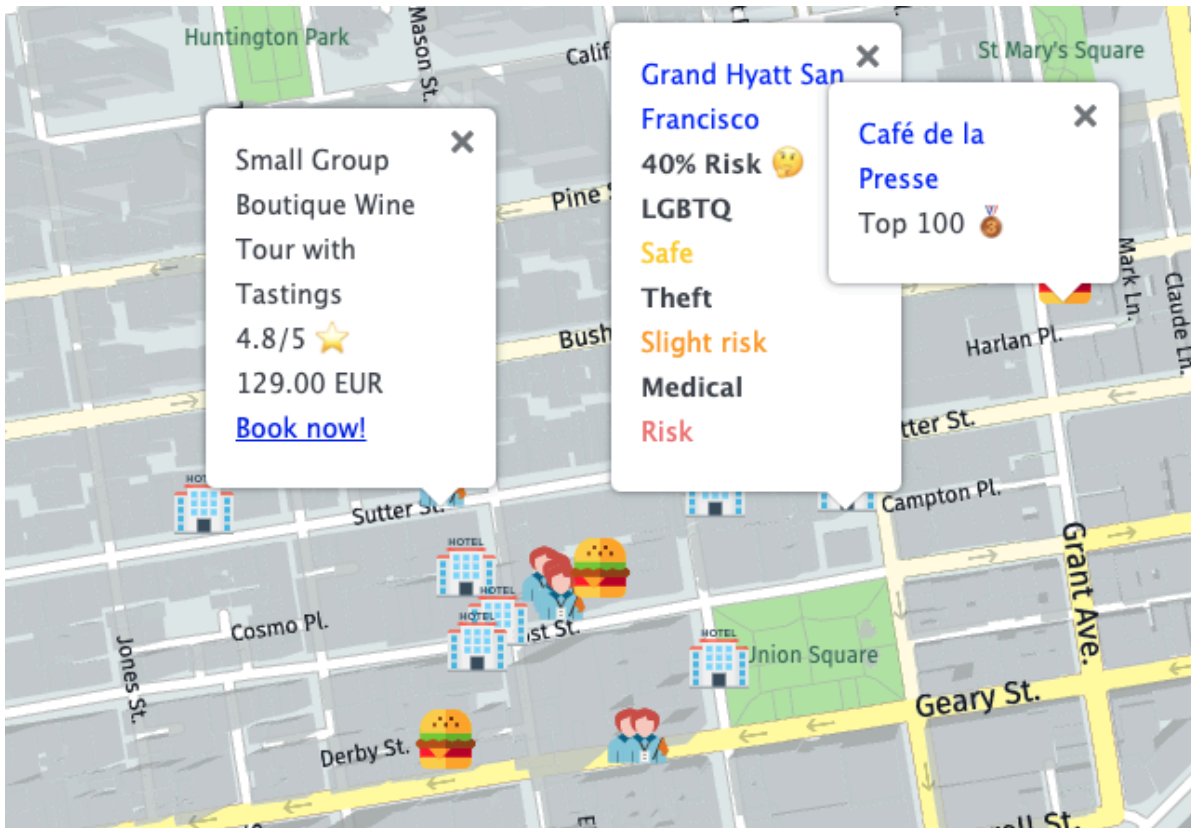


Amadeus Hotel Search with area safety and POIs

- **Demo app:** You can access the demo of the prototype [here](#).
- **Source code:** You can access the source code [on GitHub](#).

The prototype is built by Python/Django and the [Amadeus Python SDK](#), It demonstrates the safety information, POIs and tours for a chosen hotel on a map, using the following APIs:

- [Hotel List](#): shows hotels on the map
- [Points of Interest](#): shows POIs around the hotel
- [Tours and Activities](#): shows bookable tours and activities around the hotel
- [HERE Maps](#): displays a map with markers and text bubbles



Prototypes from community

We have many other prototypes or demo apps that developers in our community built and shared! Explore them below or in [Amadeus for Developers -Examples GitHub](#).

Warning

Projects from communities are examples that have been built and managed by developer community([Discord](#)) and it is not supported or maintained by Amadeus for Developers team. The projects may not be up-to-date.

Use case	Amadeus APIs used	Technology	Details
Trip purpose prediction	Trip Purpose Prediction	Python, django	amadeus-trip-purpose-django
Hotel Search	Hotel Search	Swift	amadeus-hotel-search-swift
Hotel booking engine	Hotel Search, Hotel Booking	Kotlin	amadeus-hotel-booking-android
Flight Search with Artificial intelligence	Flight Offers Search, Flight Choice Prediction, Trip Purpose Prediction and Airport & City Search	Python, django	amadeus-smart-flight-search-django
Flight Search	Flight Offers Search	PHP, wordpress	amadeus-flight-search-wordpress-plugin
Flight Booking engine	Flight Offers Search, Flight Offers price, Flight Create Orders, Airport & City Search	Java, React	amadeus_java_flight_api

Use case	Amadeus APIs used	Technology	Details
Airport & City autocomplete	Airport & City Search	Node, Express, React	amadeus-airport-city-search-mern
Flight Seatmap display	SeatMap Display	React	amadeus-seatmap
Hotel booking engine	Hotel Search, Hotel Booking	React Native	AmadeusNodeServer, AmadeusHotelBookingPart1
Hotel booking engine	Airport & City Search, Hotel Search, Hotel Booking	Node, React	Building-a-Hotel-Booking-App-in-NodeJS-and-React
Map nearby	Points of Interests	Swift	MyPlaces
Flight Booking engine	Flight Offers Search, Flight Offers price, Flight Create Orders, Airport & City Search	Node, Angular	Flight-booking-frontend and backend
Flight Search backend	Flight Offers Search, Airport & City Search	Bootstrap, Vanilla JS	Building-a-Flight-Search-Form-with-Bootstrap-and-the-Amadeus-API
Map nearby	Points of Interests	Android	Amadeus_POI_Android
Hotel booking engine	Hotel Search, Hotel Booking	Ruby on Rails	amadeus-hotel-booking-rubyonrails
Flight status notification service	On-Demand Flight Status	Python	amadeus-async-flight-status

Use case	Amadeus APIs used	Technology	Details
Flight Calendar search	Airport & City Search, Flight Offers Search	Node, Svelte	FlightSearchCalendar
Airport & City autocomplete	Airport & City Search	Node and Express	Live-Airport-City-Search
Flight Booking	Flight Offers Search, Flight Offers Price, Flight Create Orders	Node, Vue	amadeus-flight-booking-node

amadeus-trip-purpose-django

This project ([Link to GitHub](#)) demonstrates how to integrate Amadeus APIs using the [Python SDK](#) in a Django application. The end user submits round-trip information via a form and the [Trip Purpose Prediction](#) is called. This API predicts if the given journey is for leisure or business purposes.

LEISURE

Trip Purpose Prediction

MAD

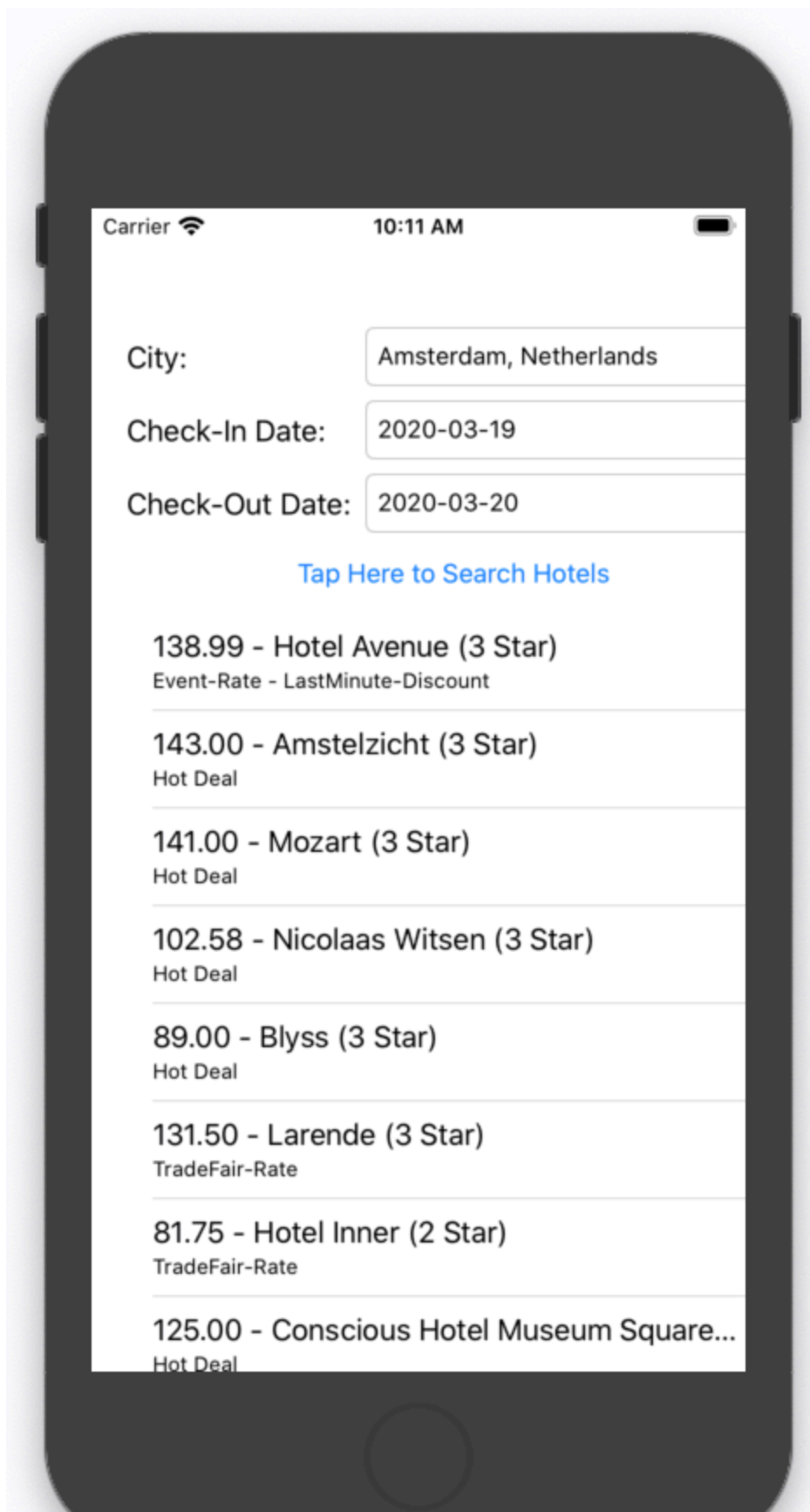
ATH

04 / 04 / 2020

13 / 04 / 2020

amadeus-hotel-search-swift

This prototype ([Link to GitHub](#)) demonstrates a simple iOS hotel search app from scratch using Amadeus Hotel Search API (version 2.1 - decommissioned) and [iOS SDK](#).





amadeus-hotel-booking-android

This prototype ([Link to GitHub](#)) shows how to use the [Android SDK](#) to build a Hotel Booking Engine in Android Studio.

14:34 ⓘ

🔇 📶 📶 🔋 84 %

Amadeus Android

📅

2020-11-06 - 2020-11-08

🏠

LONDON

🔍

SEARCH

🏠

TEST CONTENT

📍

PORT EL KANTAOUI BP08 PORT EL KANTAOUI , 4089 LONDON

💰

1575.00 GBP

🏠

THE MAY FAIR HOTEL LONDON

📍

STRATTON STREET MAYFAIR , W1J 8LT LONDON

💰

86.86 GBP

🏠

Belle Cour

📍

UPPER TACHBROOK STREET 4 , SW1V 1SH LONDON

💰

279.00 GBP

🏠

CROWNE PLAZA LONDON - THE CITY

📍

19 NEW BRIDGE STREET , EC4V 6DB LONDON

💰

299.00 GBP

🏠

Gower House

📍

57 GOWER ST , WC1E 6HJ LONDON

💰

330.00 GBP



amadeus-smart-flight-search-django

This prototype ([Link to GitHub](#)) shows how the Air APIs can be integrated with the Django framework and [Python SDK](#), by calling the [Flight Choice Prediction](#) and [Trip Purpose Prediction](#). We also call the [Flight Offers Search](#) as a more traditional method of flight search and we compare its results with the [Flight Choice Prediction](#) ones to show the power of AI.


BKK → NYC
2023-03-15 ⇄ 2023-03-22

Flying for **LEISURE** purposes


FLIGHT OFFERS SEARCH

\$1014.11


Departure Total duration 24H50M

 **Lufthansa** 23:55 BKK → MUC 05:55


Connection duration is 3:25

 **Lufthansa** 09:20 MUC → EWR 13:45

Return Total duration 30H20M

 **Lufthansa** 21:50 EWR → MUC 10:20

Connection duration is 12:35


 **Lufthansa** 22:55 MUC → BKK 15:10

\$1022.17


FLIGHT CHOICE PREDICTION

\$1014.11 with 3% probability


Departure Total duration 24H50M

 **Lufthansa** 23:55 BKK → MUC 05:55


Connection duration is 3:25

 **Lufthansa** 09:20 MUC → EWR 13:45

Return Total duration 30H20M

 **Lufthansa** 21:50 EWR → MUC 10:20

Connection duration is 12:35

 **Lufthansa** 22:55 MUC → BKK 15:10

\$1022.17 with 3% probability

amadeus-flight-search-wordpress-plugin

This prototype ([Link to GitHub](#)) demonstrated how to create a WordPress plugin to build a basic flight search feature using [Flight Offers Search API](#).

Origin Location Code (required):

SIN

Destination Location Code (required):

BKK

Departure Date (required):

2020-08-14

Return Date:

2020-08-18

August 2020

M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

on 2020-08-14 and returning on 2020-08-18 for 2 adults.

	Arrival Place	Arrival Time	Flight No	Duration	Total Price
1	SIN	2020-08-14T12:20:00	DMK	2020-08-14T13:35:00	SL 101 PT2H15M EUR 239.92
	DMK	2020-08-18T07:40:00	SIN	2020-08-18T11:20:00	SL 100 PT2H40M
2	SIN	2020-08-14T12:20:00	DMK	2020-08-14T13:35:00	SL 101 PT2H15M EUR 239.92
	DMK	2020-08-18T15:40:00	SIN	2020-08-18T19:30:00	SL 104 PT2H50M
3	SIN	2020-08-14T20:30:00	DMK	2020-08-14T22:05:00	SL 105 PT2H35M EUR 239.92
	DMK	2020-08-18T07:40:00	SIN	2020-08-18T11:20:00	SL 100 PT2H40M
4	SIN	2020-08-14T20:30:00	DMK	2020-08-14T22:05:00	SL 105 PT2H35M EUR 239.92
	DMK	2020-08-	SIN	2020-08-	SL PT2H50M

Origin		18T15:40:00	City	18T19:30:00	104	Destination	
5	SIN	2020-08-14T12:20:00	KUL	2020-08-14T13:25:00	OD 804	PT1H5M	EUR 309.68

amadeus_java_flight_api

This app ([Link to GitHub](#)) is an example of how to use the Amadeus Flight APIs to search and book a flight. The application uses a Spring backend and a React frontend.

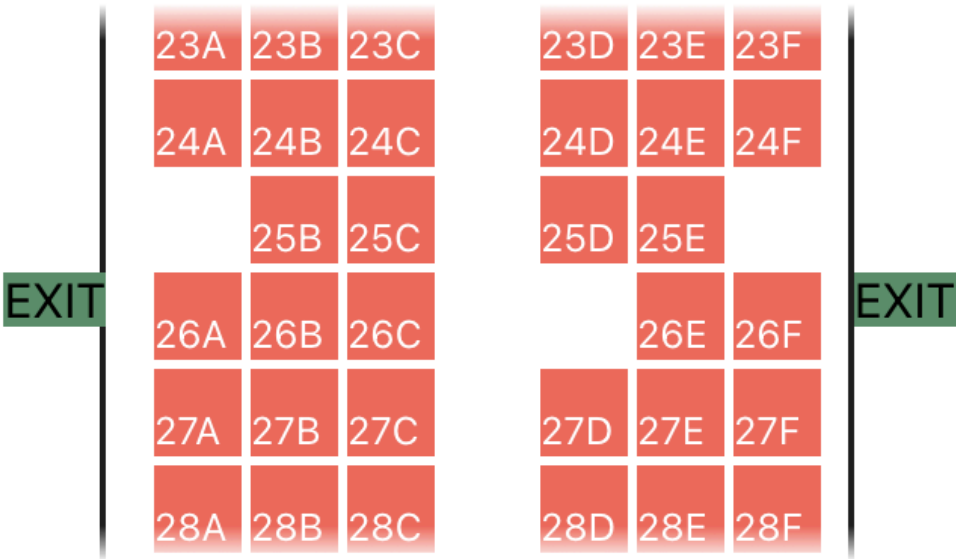
amadeus-airport-city-search-mern

This application ([Link to GitHub](#)) implements airport and city name autocomplete box powered by the [Airport & City Search API](#). It consists of a simple Node and Express backend that connects to the Amadeus API with [Node SDK](#), and a small React app that talks to a Node/Express backend and use it to obtain the airport name data from Amadeus.

amadeus-seatmap

This prototype ([Link to GitHub](#)) demonstrates how to display a flight seatmap using [SeatMap Display API](#) with React.

- [How to build an aircraft seat map in React](#)



AmadeusNodeServer, AmadeusHotelBookingPart1

This prototype consists of 2 Github repositories ([GitHub to Node Server](#) and [GitHub to React Native](#)). It demonstrates a Hotel booking application in iOS using React Native. There is a series of blogs to elaborate further to build an app with this prototype.

- [Building an iOS hotel booking app with React Native - Part 1](#)
- [Building an iOS hotel booking app with React Native - Part 2](#)

Amadeus Hotel Booking

Destination (Airport / City)

MADRID

keyword that should represent the start of a word in a city or airport name or code

Showing list of hotels in MADRID

Hotel Indigo Gran Via
Address - CALLE SILVA 6 MADRID, 28013
Rating - 3
[Toggle Hotel Offers](#)

Mercure Madrid Plaza de Espana
Address - TUTOR 1 MADRID, 28008
Rating - 4
[Toggle Hotel Offers](#)

OFFERS

OFFER ID - QQUABA9E93
ROOM TYPE - B1D
DESCRIPTION - FLEXIBLE RATE-Room only
Superior Room with 1 double bed GB TEST GB
PRICE - EUR

Book

Contact Details

First name

Last name

Phone number

Email

Payment Details

Card Number

Expiry Date

Submit

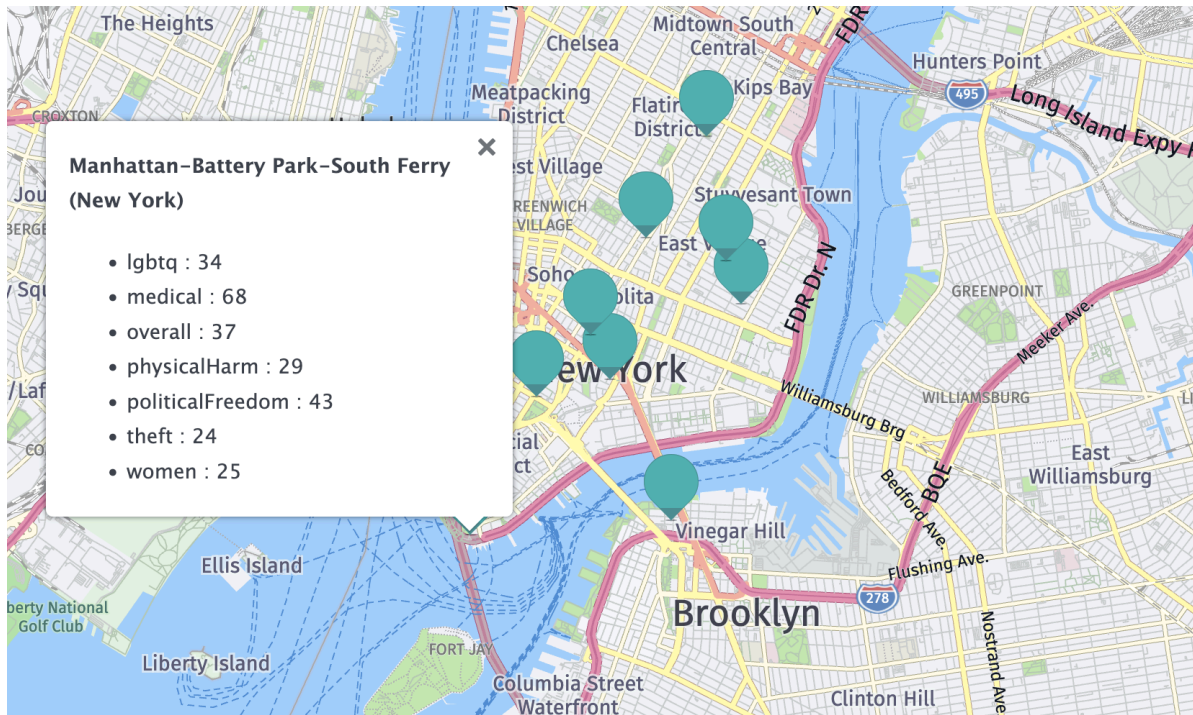
Cancel

amadeus-safeplace

This prototype ([Link to GitHub](#)) demonstrates a neighbourhood safety map in Python to let users compare the relative safety levels of different neighbourhoods. You will use the Safe Place API for

the safety scores and HERE Maps to visualize them on a map.

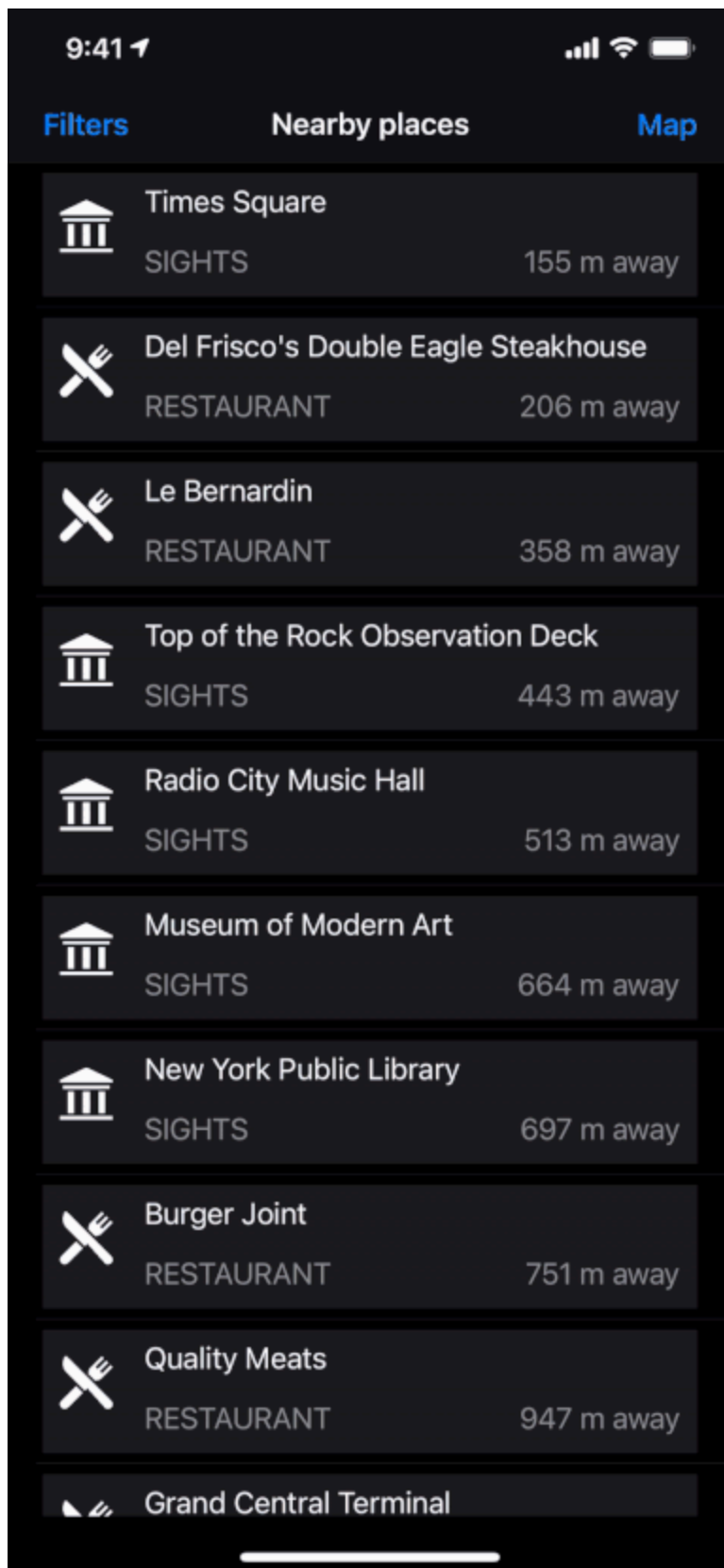
- [How to build a neighbourhood safety map in Python with Amadeus Safe Place](#)



MyPlaces

This prototype ([Link to GitHub](#)) demonstrates an iOS application that finds nearby places and displays them on a map. You will use the [Points of Interest API](#) to retrieve the places and MKMapView for the map.

- [How to get nearby places using Amadeus APIs in iOS](#)



Building a Hotel Booking App in NodeJS and React

This prototype consists of 2 code sets ([Github to Backend](#) and [Github to Frontend](#)). It demonstrates a complete hotel booking app using Node on the backend and React for the frontend.

- [Building a hotel booking app with Node.js and React - Part 1](#)
- [Building a hotel booking app with Node.js and React - Part 2](#)

The screenshot displays a hotel booking application interface. At the top, there is a search bar with the text 'City' and a magnifying glass icon, followed by the input 'LONDON'. Below this, there are two date selection fields: 'Check In' with the date 'July 20th' and 'Check Out' with the date 'July 21st'. The main content area shows a list of hotel options. The first option is 'THE TRAFALGAR' located at '2 SPRING GARDENS LONDON SW1A 2TS'. To the left of the hotel name is a placeholder image with the text 'TEST IMAGE' and a disclaimer: 'This image is not a bug. Images in TEST are not populated with real images in TEST for technical reasons.' Below the disclaimer, a list of cities is shown: 'Only some cities are populated: NYC (New York), MIA (Miami), LON (London), SYD (Sydney), NYC (New York), BKK (Bangkok)'. The hotel name and address are displayed in bold. To the right of the hotel name is an upward arrow icon. Below the hotel name, there are two room options, each with a tag icon and the text 'FLEXIBLE RATE'. The first room is 'TRAFALGAR KING ROOM' with a price of '276.00GBP'. The second room is 'ST. JAMES KING ROOM' with a price of '296.00GBP'. Both room options include the text 'COMP WIFI/COFFEE-TEA FACILITIES/USB PORT'.

Flight-booking-frontend and backend

This prototype consists of 2 code sets ([Github to Backend](#) and [Github to Frontend](#)). It demonstrates a complete flight booking application using Node in the backend and Angular for the front end.

- [Build a flight booking app with Angular and Node.js - Part 1](#)
- [Build a flight booking app with Angular and Node.js - Part 2](#)

Find flight deals around the world

Flight Offers:

Price: 417.86 (EUR)

Number of Seats Available: 9
Last Ticketing Date: 2022-01-19

Itineraries
Duration: PT12H35M
Departure: LHR at 2022-01-22T12:25:00 (Terminal: 2) **Arrival:** LIS at 2022-01-22T15:10:00 (Terminal: 1) **Number of stops:** 0
Departure: LIS at 2022-01-22T17:00:00 (Terminal: 1) **Arrival:** JFK at 2022-01-22T20:00:00 (Terminal: 5) **Number of stops:** 0

Enter your details:

Book Flight


Building-a-Flight-Search-Form-with-Bootstrap-and-the-Amadeus-API

This prototype consists of 2 code sets ([Github to Frontend](#) and [Github to Backend](#)). It demonstrates a flight booking engine with [Flight Offer Search API](#) using Bootstrap and Vanilla JS for frontend and Express for the backend.


- [How to build a flight search form using Bootstrap 5 - Part 1](#)
- [How to build a flight search form using Bootstrap 5 - Part 2](#)

Locations

Origin

 LONDON

Destination



 NEW YORK

Dates



Flight

Round-trip

Departure date

 30/09/2021 

Return date

 30/10/2021 

Details

Travel class

Premium Economy

Passengers

Adults 1

12 years old and older

Children 0

2 to 12 years old

Infants 0

Up to 2 years old

Search

Outbound LHR → JFK 7h 40m	Return JFK → LHR 6h 50m	995.28 EUR
Outbound LHR → JFK 7h 40m	Return JFK → LHR 7h 20m	995.28 EUR
Outbound LHR → JFK 8h 22m	Return JFK → LHR 6h 50m	995.28 EUR
Outbound LHR → JFK	Return JFK → LHR	995.28 EUR

Amadeus_POI_Android

This app ([Link to GitHub](#)) demonstrates the usage of [Amadeus Points of Interest API](#) to fetch the list of best attractions near the user's current location and displays them on a list as well as a map.

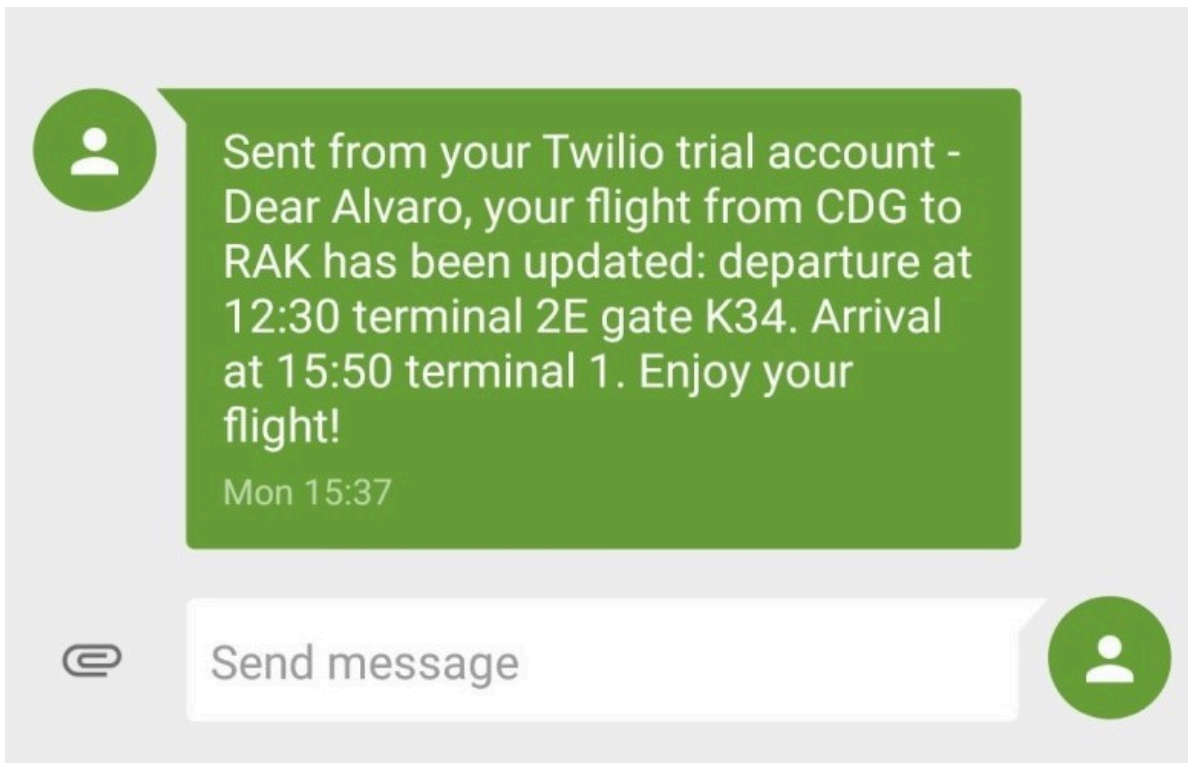
amadeus-hotel-booking-rubyonrails

This prototype ([Link to GitHub](#)) demonstrates an end-to-end Hotel booking process, which works in conjunction with 2 APIs, Hotel Search API and Hotel Booking API.

amadeus-async-flight-status

This prototype ([Link to GitHub](#)) demonstrates an application with event-driven microservices that asynchronously consume events coming from the API and notifies end users of these events via SMS using Twilio SMS API.

- [Event-driven microservices for flight status alerts: part 1](#)
- [Event-driven microservices for flight status alerts: part 2](#)

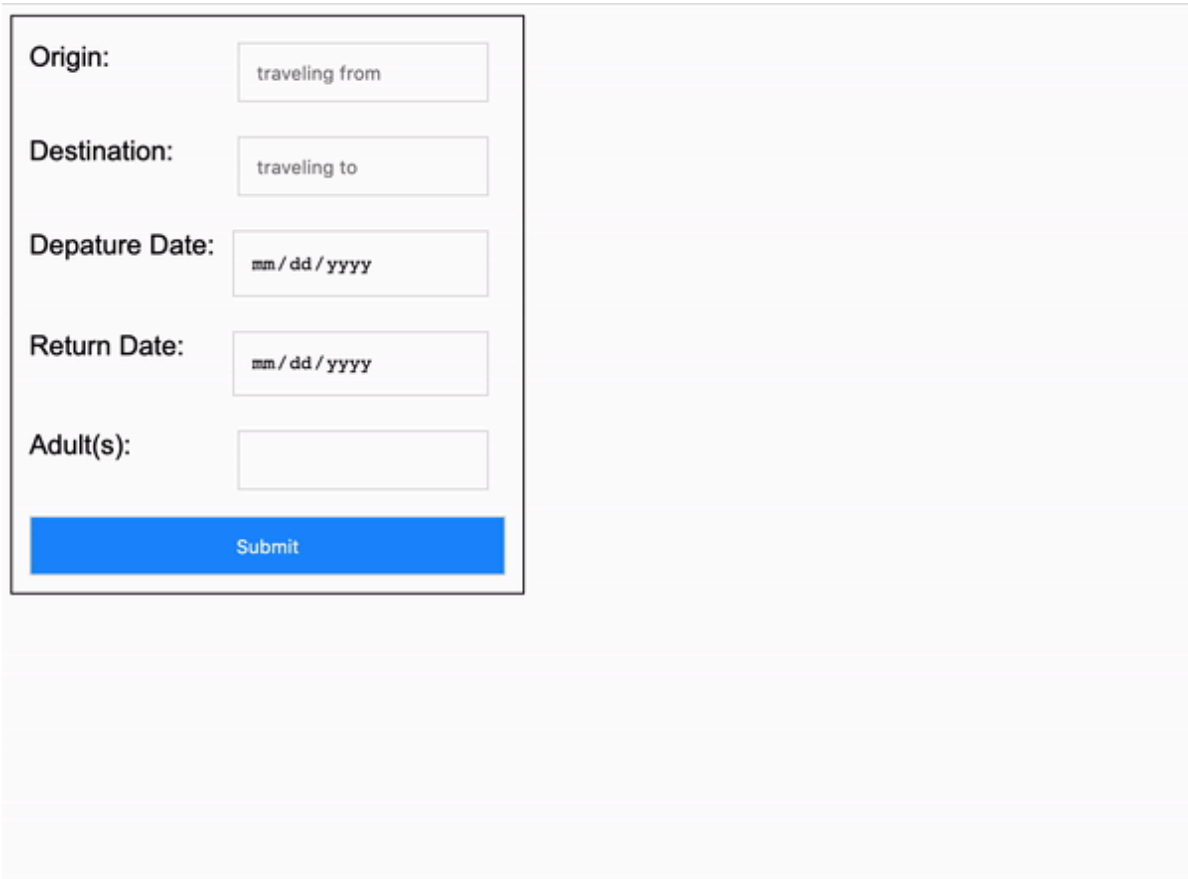


FlightSearchCalendar

This application ([Link to GitHub](#)) demonstrates a calendar application to display the flights within a date interval to find the cheapest possible prices using Amadeus APIs.

Live-Airport-City-Search

This application ([Link to GitHub](#)) lets you perform a live search for Airports and Cities through the [Airport & City Search API](#). The implementation is done through jQuery Autocomplete with Node and Express as the backend for which connects to the Amadeus API with [Node SDK](#).



The screenshot shows a flight search form with the following fields and a submit button:

- Origin:** A text input field containing the placeholder text "traveling from".
- Destination:** A text input field containing the placeholder text "traveling to".
- Departure Date:** A text input field containing the placeholder text "mm / dd / yyyy".
- Return Date:** A text input field containing the placeholder text "mm / dd / yyyy".
- Adult(s):** A text input field.
- Submit:** A blue button with the text "Submit".

amadeus-flight-booking-node

The Amadeus Flight Booking app is built with Node and Vue using the [Node SDK](#). You can find the source code [on GitHub](#)

Last update: February 6, 2025

Was this page helpful?

