



Technical Assessment

Hi!

In order to check your technical skills, we'd like you to build us an API REST to help us check some flights.

It is mandatory to use Node.js with TypeScript, Express, MongoDB and Mongoose.

Ready?

You have to use skyscanner flights API in order to do the following:

- We need an endpoint where given a query string (for example "London") will **return all the different places from that country** that matches the query string. After that, **every place** has to be **saved** in the **db**. You can check the place data model below.
- We want an endpoint to **retrieve all the places from db**.
- We need an endpoint where given a origin, destination and outbound partial date retrieves the cheapest quote. The quote has to be saved into the db, you can check the data model below.
- (Optional) In some parts of our code we use the aggregation framework. Create an endpoint where you model the data given by one endpoint of skyscanner API at your choice with the aggregation framework.
- The persistence layer needs to contain the following entities and respective fields:

Entity	Fields
PLACE	id placeId placeName countryId regionId cityId countryName
QUOTE	id minPrice Places

Required:

- An API REST to manage our flights.
- Testing.
- A README.md file which explains how to build/run the project.
- Use of design patterns like DAO, Factory...

Optional:

- Create a simple front end with react.
- Class umls.
- Ability to run the project with a Docker container.

Useful links:

- Skyscanner API: You can find it [here](#). Use flights API.
- You can use skyscanner API through rapidapi to do a quick test. You can find it [here](#).
- You have to use some methods like **list places** and **browse quotes**.