

Let's Continue the Conversation!

We've enjoyed chatting and want to continue the conversation. This exercise is one of the best ways we've found to learn more about each other.

Before you get started:

There is a lot of flexibility to this exercise...and it's intentional. We always appreciate clean, well-documented code, but we're also looking to see how you approach problems and make tradeoffs. We're just as interested to discuss your design and architecture choices as we are to see a working app.

A Basic Search API

Create an api where requests can be made to find a room to rent. It's up to you whether this uses a relational database, a NOSQL datastore, a search platform, or something custom. You can use whatever technology you feel is most appropriate - we primarily use Python (werkzeug) for services. If you do not have time to finish an entire application, focus on what you think is most important. We know you're busy and appreciate that you're spending time on this. Data which must be parsed and imported often has subtle problems in formatting or serialization, and the one we are providing to you is no exception.

What should the application do?

There should be an api endpoint for finding a room to rent. The provided CSV file has thousands of rentals from the NYC area. The response from the API should be a structured list of data about the rooms that match an api request containing a search string, and a latitude/longitude and a distance in meters (both search string and location information are optional). What does 'match' mean exactly? For the location part of the request, it should be the rooms within that distance from the provided location. How the text part of the query works is totally up to you, feel free to do something creative. You should try to always return some results, and order them in a way that is somewhat useful for a user.

Example queries that might be posted to the api:

```
{'latitude': 40.7306, 'longitude': -73.9352, distance: 1000, query: "two bedroom"}
```

```
{'latitude': 41, 'longitude': -73, distance: 300.7, query: "near the empire state building"}
```

What about using open source?

Where it makes sense to augment your own code with open source libraries or frameworks, go for it - just be sure to properly attribute other people's work.

How should the application be submitted to EarnUp?

Please do the following:

- Create a Github repository for the application with relevant instructions on how to run it
- Share a link to the repository along with a brief description of the application

We are excited to see what you build!