

## Solutions Software Engineer Applicant Exercise

### Overview

As a guideline, we think this exercise should take about 4 hours to complete. Please approach the assignment as how you would implement an urgent, short-term solution where the business requirements may change in the longer term.

### Submission

Your submission should:

1. Follow the design specifications below. Keep in mind that there are no bonus points for extra bells and whistles. We would like to see your approach to the problem at hand.
2. Display best development practices (e.g., documentation, code cleanliness, test for any complex logic, conventions, deployment details, etc.), especially considering the case that another team member may need to take over the project or collaborate on future iterations of the project.
3. The code should be deployable locally. We will run your submission in the latest version of Google Chrome. It does not need to support other browsers.

When you have completed your submission, please notify us at [sts-exercise@netflix.com](mailto:sts-exercise@netflix.com). Instead of attaching the archived submission directly to your email, please upload it to a location where we can download it separately, such as a sharing service like Google Drive. *Please don't share your solution or this exercise in a publicly accessible location.*

### Use Case

Production executives are looking for an available [sound stage](#) for an upcoming show. There are 3 studio lots<sup>1</sup> across the U.S. and each studio lot has 2 sound stages. They would like to search for an available sound stage based on a range of dates and a location.

#### What's supplied

- `stage_data.json` - seed dataset (download via [Google Drive link](#))
  - Where you see null for `end_date`, assume the sound stage is available indefinitely from the `start_date`.

### Specification

- Use React for the frontend.
- The backend may be written in any of the following languages: Node.js, Python, or Java.
- Only the backend should interact with the dataset (`stage_data.json`), including filtering.
- The frontend should include the following components:
  - Search filters for City, State, and Country, and available start date & end date pickers
  - List of all studio lots and sound stages with the location information filtered based on the search criteria selected above
- All search criteria should be optional for the users.

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<sup>1</sup> A studio lot is a production facility for movie and television shoots (e.g.: Sunset Bronson Studio).