Overview

As part of the interview process, we ask that you implement the user interface based on the design specification outlined below.

We give this assignment to candidates so they have time to think about a problem versus coming in cold to a discussion. This assignment is meant to be pretty clinical. We aren't looking for bells and whistles, just the implementation as specified in the doc.

We think this assignment should take no more than four hours.

Be prepared to discuss your approach in your on-site interviews.

Download

Provided is an archive containing all the files needed for the exercise. [Download here](#).

What's Included

As part of this exercise, we are providing a basic skeleton for your submission:

- index.html - A simple html file which loads all required JavaScript and CSS to get started;

- data.js - JSON representation of data needed to display the interface;

- app.js - A single bootstrap function with the required data.js contents as a parameter;

- CSS - All the styles needed for a basic implementation.

Submission

Your submission should:

1. follow the design and interaction 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. demonstrate your mastery of architecture decisions, component extensibility and performance.

3. avoid usage of third-party code. We value your understanding of the language, not your understanding of frameworks.

We will run your submission in the latest version of Google Chrome. It does not need to support other browsers. Avoid requiring the need to set up a local server.

When you have completed your submission, please email it to oui-homework@netflix.com. Instead of attaching the archived submission directly in your email, please upload it to a location where we can download it separately, such as a sharing service like Google Drive, Dropbox, or Box.

Design

Specification

Build out a grid of videos with 2 special promotional rows. The requirements for this interface are as follows:

- The main video grid will display multiple horizontal rows. Each row includes:
    - A maximum of 5 video items
    - Each video item displays a single image

- Some rows will contain promotional content, only displaying a single video item. For this exercise, we have provided 2 such rows. The header billboard and the inline billboard.
  ### Header Billboard
    - Displays the large background image
    - On top, metadata should be displayed like a logo, text and buttons
    - The metadata should not fade in
  ### Inline Billboard
    - Displays a smaller background image
    - On top, metadata should be displayed like a logo, text and buttons
    - Only on the first time the row comes into viewport, the metadata should fade in.

Designs

Below is a screengrab of the expected final design. For your reference, we have also provided a [full-size version](#).

For your submission, you can also reference this [video for the expected interactions](#).
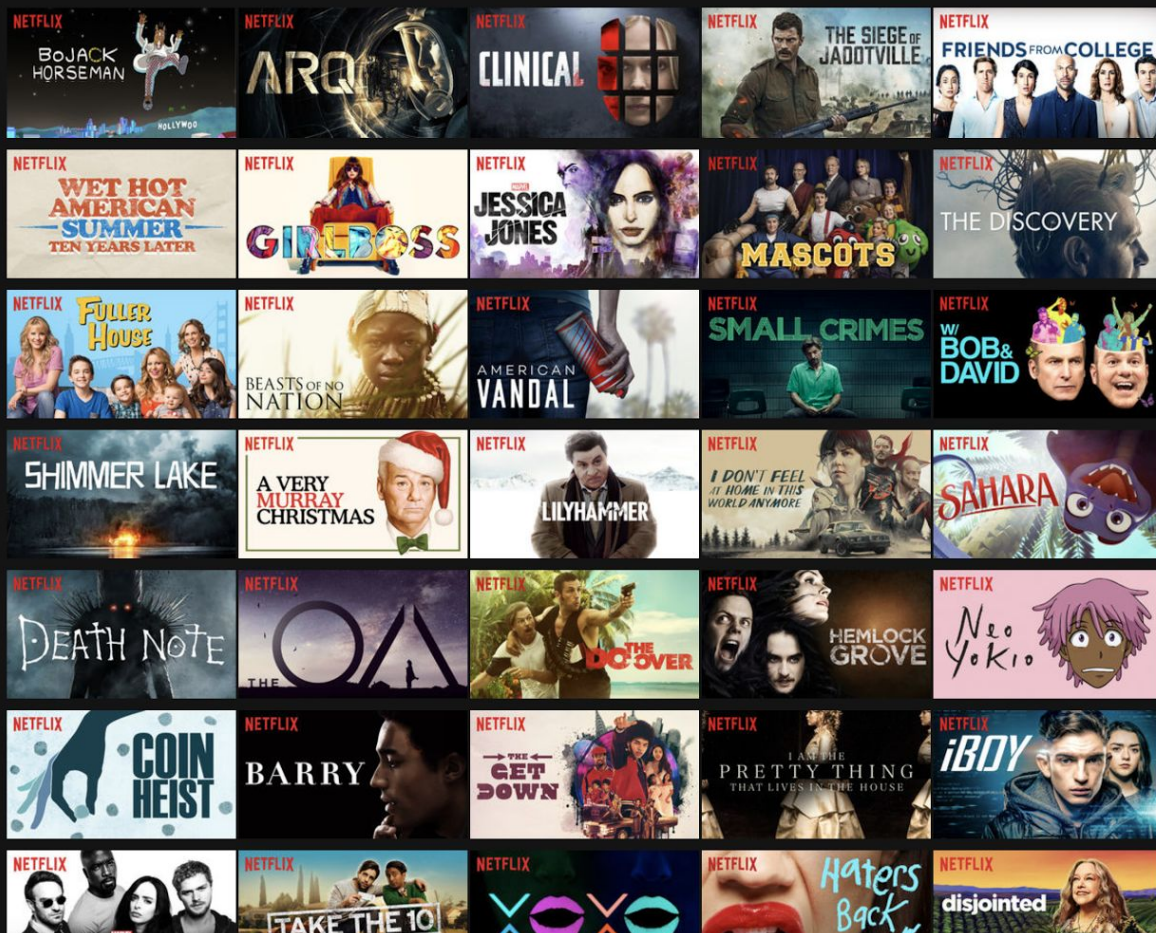
What to Expect On-Site

The goal of the assignment is so we can have a more meaningful discussion as part of the onsite interview. As a starting point for that meeting, think about the following questions:

1. Does your application support a data-driven number of columns and rows?

2. How does your approach perform if the number of columns and rows increases significantly?

3. How well does your approach support variations and new features?