

Technical Challenge

Dear Candidate,

Welcome to the Java Platform Group Interview - Technical Challenge.

Instructions

1. You have approximately a week to complete the challenge.
2. To complete this challenge, you will need to write a simple React based application.
3. The purpose of this challenge is to assess your skills and approach to composing a simple web app given a set of screens/requirements and an API feed/endpoint.
4. As mentioned in the earlier email, you should have your Oracle Cloud Infrastructure trial account ready for this challenge.

Challenge 1: UI Prototype: Movie Title Listing

Prototype a simple **Movie Title Listing** service. The service should provide the following pages and features:

- Home Page
- Series Page (pop up modal to show program details)
- Movies Page (pop up modal to show program details)

You will need to build a set of React components to render the application. You are provided with the movies list as a JSON file, as well as an API endpoint to retrieve fun facts on the dates of the movie release. As such, you will need to use the JSON file, request a JSON feed to filter and use the data correctly, as well as consuming the public endpoint to augment your data.

Public Endpoint: <http://numbersapi.com/>

Since this is a user interface challenge, do make it as user friendly as possible. This means that if things are loading, it must be made clear to the user that things are loading, as well as displaying error messages accordingly when things go wrong. You will be asked to simulate an API failure scenario and show the appropriate error messages.

This is a basic challenge, but we will be looking out for simple, well-designed, efficient and tested code in the submission. Do use e2e testing tools such as selenium, cypress.

Tips

Be prepared to answer the following questions during your presentation:

- How did you decide on the technical and architectural choices in your solution?
- Are there any improvements you could make to your current solution?
- What would you do differently if you were given more time?

Engineer your solution to fit the time frame. A working demo is more important than a more complete solution that does not work.

Challenge 2: Deployment on Oracle Cloud Infrastructure

1. Application should be running on port 80
2. Highly encouraged to use the Oracle Cloud Developer Image available at the Oracle Cloud Marketplace as it comes with most of the required toolsets.

Last Steps

Before you leave the session, please email us your work as a link to the hosted repository (e.g. Github). Your submission is important to help us evaluate your work, apart from what you have demonstrated during the session.

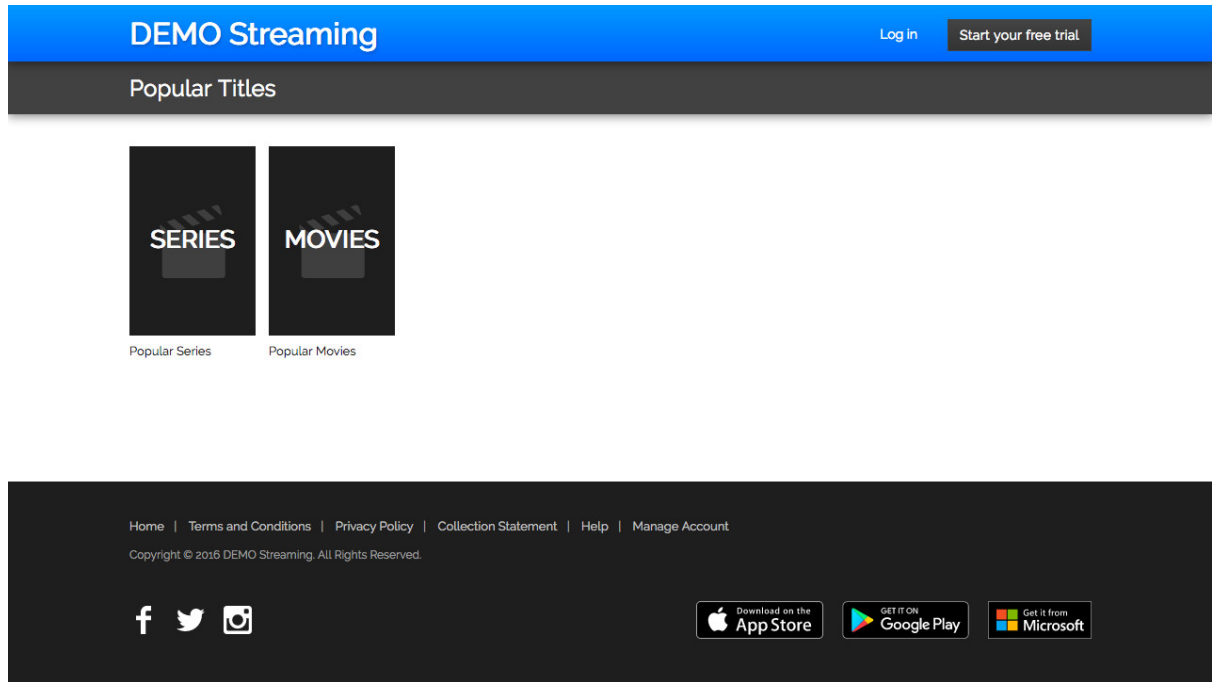
Bonus Section

This section is optional however, we highly encourage you to attempt the following and demonstrate the use during the demo/code walkthrough.

1. Create clean and testable code with unit tests for your application using jest
2. Use state management tools like redux
3. Use es6/es2020 Javascript features
4. Use functional components
5. Use 3rd party ui libraries such as UIKit, Material UI
6. Use continuous integration tools such as Travis CI/Jenkins

Screen Mocks

Home Page



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