Neural Foundry Tech Test

Spring 2023

Abstract

This is the technical test for the Neural Foundry Software Engineering positions. By downloading this document you have agreed to not share or publish this document. Please complete the tasks to the best of your ability and submit a link to GitHub containing the solution with a clear *README* file explaining the execution of the code. Please contact us with any questions you may have.

1 Introduction and Overview

The task at hand is build a REST based web application. Using best software engineering practises.

1. You can use any frameworks you are familiar with and, any of the following languages - Python, Go, Rust or Typescript.

2. You may use any libraries that can be easily installed through your chosen language's package manager

2 Specification

The aim of this project is to build a movie review database. The application should meet the following goals:

Primary goals:

1. Add a movie to the database

2. Automatically get movie meta data from an API service such as IMDb[1]. This means, title, poster, descriptions etc.

3. Add user review, rating and short message, attach to movie.

4. Display movies reviewed by user in a grid on the home page.

Optional goal: You may add features such as user login/authentication. To show reviews from other users etc.

The tasks are designed to be open-ended to encourage creativity and let your application stand apart from others.

3 Code quality

Code quality and maintainability play an important role in our development process. As such, make sure the code is as readable and modular as possible with a properly formatted structure. Bonus points for following the google style guide for your chosen language, (python example). Try to utilize version control and reference any borrowed code.

4 Submission

The code must be hosted on a public GitHub repository of your choosing, in the repository should be a *README* file that outlines any steps we must take to test your solution and any notes you may want to leave. The deadline is **1 week** after the test is received but this is flexible, we care about quality not speed.

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[1]https://developer.imdb.com/