**Python Developer Technical task**

**Motivation:**

Feature 1 - When it comes to movies, it’s always a question of what to watch tonight, right?

Our aim here is to build mini software which is helping users to choose movies to watch based on data parsed from the IMDB database.

Feature 2 - Data Parsing, We want to build small software which can parse CSV, XML, XLSX to Json, please build with flexibility to extend other types.

**Inputs:**

Feature 1 - ZIP folder contains spreadsheet of 8 columns, each and every column will be acting as searching parameter, user can combine more than search parameter, for example if the user is searching for movie with title ‘the godfather ‘The user will get row number 4 as a result, , another example (overview =”framed” , release date=’1995-10-20’) , this will return no result matching .

, please note, the user can search in the overview column by giving a keyword and the system should return the best match.

Feature 2 - The same sheet.

Outputs:

Feature 1: The search target row including all its data.

Feature 2: Json file parsed from the CSV, XML, and XLSX file.

Deliverables:

You have 2 options,

1 - CLI application can accept user input and show results.

2 - (Bonus if you did) Very simple web application including the search input and the json parser in the same page, you can use any framework or template you want .

Bonus:

If you built the system using any web framework you will get a bonus, also you get a bonus if you showed in the web page you are building a mini dashboard which includes any data you find useful from the sheet, like the most rated movie for example.

* **Huge bonus if you used any kind of testing.**

**Things to consider:**

1 - Design patterns are valuable for such cases.

2 - Clean code and readability are important.

3 - Use git and Commit regularly.

4 - Handle script arguments and not supported file types.

5 - Include README file contains installation and running steps.