

## PHP Challenge

Dear Applicant,

Again, we would like to thank you for your application as Software Engineer - Backend (f/m).

In order to better and more easily evaluate your skills at solving problems we have prepared a challenge for you to try.

In the attached data file you will find a list of 70 movies and the "movie preference" of about 800 users. We would like you to create a command line application in PHP that takes as input a number of movie ID's and this data file. The application should then calculate and output a list of movie recommendations based on this list and the data file. Think about it as an Amazon.com suggestion: "the user says he likes movies A, B, C on this list, what other movies from the list would you recommend based on the other user data".

Some points to pay attention to:

- Think about testing, documentation, readability, ...;
- Make sure that the requirements to run the application can be easily installed.
- We know there are more than a few high level libraries out there that actually implement "item similarity". Please refrain from using them. Invent something yourself!
- Don't put your solution in a public repository, as we would like to re-use the exercise.

There is no "perfect" solution for this problem and there are many ways to try to solve it. Don't try to guess what we think is a good solution.

Please let us know if you have any further questions!

Thank you in advance and best regards,

Your Native Instruments Team