

Bewerberaufgabe Stand 27.12.2023 - English

Playlegend applicant task

The task serves as an assessment of your skills and is intended to evaluate whether you are suitable for further tasks. Below you will find the requirements that the plugin must contain. We will evaluate each point in the team and vote together after submission. Please upload the project publicly on GitHub, Gitlab or another provider.

You have 5 days to complete the task, if you need longer please let your contact person know, this is usually not a problem.

Task Group system

The plugin should function as a group/authorization system such as Pex or LuckPerms. The player should be in a group by default. If necessary, another group can be assigned to them permanently or for a certain period of time. All necessary information should be stored in a relational database.

Minimum requirement

- Groups can be created and managed in the game
- The group must have at least the following properties
 - Name
 - Prefix
- Players should be able to be assigned to a group
 - Permanent
 - Temporary - with a time specification. It should be possible to specify 4 days, 7 minutes and 23 seconds in-game
- Prefix of the group should be displayed in the chat and when joining the server
- When the player is assigned a new group, this should change immediately (player should not be kicked)
- All messages should be customizable in a configuration file
- A command tells the player his current group and, if applicable, how long he still has it
- It should be possible to add one or more signs that displays an individual player's information such as name & rank
- All necessary information is stored in a relational database (NOT the configurable texts)

Bonus tasks

Bonus tasks are not a MUST but definitely help to assess your skills.

- Permissions can be defined for a group and should be assigned to the player accordingly. Query via #hasPermission should work
- "*" permission
- Support for multiple languages
- Tablist with the respective group sorted
- Scoreboard with the respective group

Definition of done:

You can see the task as completed when the following points have been fulfilled.

1. Requirements fulfilled

2. The plugin is fully functional
3. All Unit Tests pass
 - a. Code coverage of at least 15% (most important functions should be covered)
4. Project uploaded to GitHub, Gitlab or other provider

General requirements

It is important to adhere to these requirements, otherwise we will consider your task invalid.

- Java Conventions, Google Codestyle
- Clean code (Think about whether an outsider understands this code)
- The plugin must be performant and be able to handle a large number of players
- async I/O

You may use any frameworks/libraries or anything else for the task.

If you copy code from another project, please indicate the exact source.

We expect each of our developers to work independently and proactively.

Of course, this includes how well code can be maintained and extended. Before you submit the task, think about whether there is anything you can improve and how other people might understand/evaluate your code.

Thank you for applying to us, your contact person will be happy to answer any questions you may have.