

The assignment is to create a service which can take a String as input. The input string is the full name of an author. The service should be able to parse this string and provide a result where it is derived what is first name(s) and what is last name.

This does not have to be a REST service, but an internal service which can be used by other parts of the system. I.e., the other parts can deliver a string to the service and then receive a response they can use afterwards.

Name to parse	Expected first name	Expected last name
John Doe	John	Doe
Doe, John	John	Doe
Hans-Christian Jensen	Hans-Christian	Jensen
P. H. Kristensen	P. H.	Kristensen
Peter Hans Kristensen	Peter Hans	Kristensen
Kristensen, P. H.	P. H.	Kristensen

The solution must be made so it is production ready and potentially can be delivered to a client. The focus of the evaluation will be on correctness, completion, design, coding style, and the use of OOP (Object-Oriented Programming) principles. No UI (User Interface) is expected for the task.

You will be asked to give a presentation of the implemented solution in which you should include the following:

- Describe the overall structure of the program, with an emphasis on how and why responsibility is assigned to the various parts of the system
- Demonstrate that the implemented solution works correctly for all the cases provided
- Comment on what changes to the structure and implementation of the program would be needed to expand the functionality to be able to handle a list of person names

The code must be written in Java or C#. We use IntelliJ as IDE; a trial version can be downloaded here: <https://www.jetbrains.com/idea/> you can use your IDE of choice. It is up to you to decide which libraries and frameworks you would like to use, if any.