

Distributed Systems

Exercise Sheet 3, Thursday

Klingemann, SS 2022

Preliminary Java-Exercise (assessment only in combination with subsequent tasks)

Realize a simple system for the management of conferences. Implement two classes for this purpose: One class for conferences and one class for participants. Each conference has two private attributes: a name and a set of participant objects. This set should represent the people that participate in the conference. (Note that it is a set of objects and not just a number!) Each participant has three private attributes: a name, a country and a company.

A conference should have methods with the following functionality:

- Search for a participant with a particular name. You can assume that there exists at most one. The method returns the corresponding participant object.
- Add a new participant to the conference. The method has three parameters: a name, a country and a company. A corresponding participant object is created and added to the set of participants of the conference.
- Return the set of all participant objects of the conference. (The return value has to be a collection of participant objects and not just a number!)
- Return the name of the conference.

A participant should have methods with the following functionality:

- Return the name
- Return the country
- Return the company
- Change the company

Implement the two classes and a main-function to test them. You should in particular be able to calculate within your main-function based on the methods above the total number of all participants from Germany.