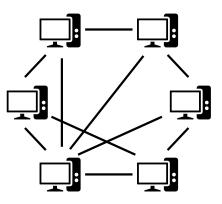
IDP, HiWi

Design of Tests for Peer-to-Peer Systems

Motivation

The course *Peer-to-Peer-Systems and Security*, short *P2PSec*, requires students to complete a project implementing different parts of a Peer-to-Peer-System [1]. While the students have a high degree of freedom in choosing the programming language and approach to the implementation, it also makes consistent grading challenging. The goal of this IDP/HiWi job is to design and implement tests, which not only make testing of the



projects easier and easier to understand for the students, but also improves fairness and transparency in grading.

Students will be given a framework which shows the requirements for their implementation as well as different scenarios to be covered by their implementation, while grading may happen with a non-public, extended testing framework. The tests should treat the implementations of the students as a black box as the high degree of freedom in design should be kept. Nevertheless, tests that cover scenarios specific to the modules should be implemented.

Your Task		 Chose a te Design and Document Make your 	yourself with the existing proje sting framework and outline rea implement tests for all module your tests and the requirement tests understood through the s ests! (Possibly with code from p	quirements for studer es s for the students pecification	וt code
References		[1] https://net.in.tum.de/teaching/ss24/p2p.html			
Requirements		High familiarity with the contents of the P2PSec lecture, probably best if you have completed it yourself.			
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