Initial approach report

Team name: Chili
Team members: Obada Alexandru, Frinker Nicolas
Subproject: RPS

Programming language, operating system, reasons

We are going to use Java as programming language and Linux as operating system of our choice.
Both of us are working with Linux anyway so it would be most comfortable for us to use this OS for our implementation as well. Moreover, both of us have experience with programming in Java.

Build system

We use Maven.

Measures to guarantee quality of software

We believe that through regular code reviews we can achieve a good code quality. We plan to have an alternative repository on Bitbucket where we can do code reviews via Pull-Requests. Also, we plan to keep a high unit-test coverage as well functional test. Besides that, we will use the provided test module for end-to-end tests.

Available libraries

Netty - networking, JGraphT, JUNG - graph analysis and representation,
Apache Commons

Software license

Our code will be available under MIT License (https://opensource.org/licenses/MIT)

Previous programming experience

Alexandru Obada:

- 4 years working experience as java developer
- 2 years C/C++ in embedded and real-time simulations
- 2 years Python web development

Nicolas Frinker:

- 10 years of programming experience
- More than 4 years of network experience due to job at network security company (C, C++, perl)
- Solid Java knowledge from bachelor studies and over one year minecraft plugin development

Workload distribution

At this stage we don’t have a clear picture of how exactly the load is going to be distributed. In this phase we are investigating the problem and try to come up with potential solutions, it is primarily collaborative work. We have regular meetings where we synch and discuss our findings. As for now, we plan to generate tasks in Bitbucket, prioritize and distribute. The tasks will be small enough to allow each member to contribute to a variety of submodules, rather than concentrate the knowledge.

Issues and complains

None so far.