

Peer To Peer Systems & Security

May 23, 2017

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Initial Report

1. Team Members

- Hamza Zafar
- Muhammad Bhatti

2. Sub-Project

- Gossip

3. Technical Details

- Programming Language: Java — Java provides many built-in libraries for Data-Structures, Threading etc. We will be using Java NIO to handle event processing.
- Operating System: Linux Debian Based — we will be using Ubuntu because we have experience using Ubuntu for development purposes.
- Build System: Maven
- Quality Assurance:
 - We will use Java JUnit Framework for testing.
 - We will write Unit tests for all component, we also plan to write stress tests.
 - We will try our best to maximize the test coverage.
- Available Libraries: Apache Commons, JDK libraries etc.
- License: MIT License — We want other people to to use our module, make changes to it and publish it if they want.
- Previous Programming Experience:
 - Hamza — Worked as an open-source developer for Java Based Message Passing Interface MPJ-Express.
 - Bhatti — Used Java for several programming projects — Developed a GUI based simulation for Routing Information Protocol—RIP— in Java.
- Workload
 - Hamza: Implement Gossip API
 - Bhatti: Implement Gossip P2P protocol
 - Pair-Programming:
 - (a) Cache Module
 - (b) Writing Test Cases