

IN2194

Initial Approach Report

Onion Authentication
Group 40

Rui Bin Choo (03691824)
Danwen Ouyang (03692087)

1 Software

We have decided to utilise Java as the programming language for this project. Firstly, the benefits of Java are its easy syntax, good error handling and great community support. More importantly, both of us have taken a previous network programming course that was conducted in Java, thus providing us with certain knowledge of the related Java API libraries.

The operating system chosen is Windows, for the simple reason that both of us use Windows machines.

2 Build System

Bamboo is the chosen build system.

3 Quality Control

We will utilise JUnit for unit testing and employ an incremental development approach for quality control.

4 Java API Libraries

The following Java API libraries are greatly relevant to this project.

- java.net.*
- java.security.*
- javax.crypto.*

5 Licensing

We will assign a NonCommercial license to this project - this allows for free distribution and modification but not for commercial purposes.

6 Previous programming experience

This section lists the previous programming experience of the members in the group.

Rui Bin Choo:

- Self-developed an Android expense tracker app
- Developed a Java task scheduler application in a university project
- Took a network programming course which included assignments in Java

Danwen Ouyang:

- Java task scheduler
- Java network programming
- Crypto related programming

7 Division of workload

The workload will primarily be divided into 2 sections - the session key establishment process and the encryption process. One team member will be in charge of one section.

8 Issues

Nil.