COMP90015:Distributed System – Assignment 1

Multi-threaded dictionary

Name:Yizhou Zhu

Username:yizzhu

Student id: 1034676

Executive Summary:

This report aims to give the reader a brief introduction to the system developed by Yizhou Zhu (1034676) to meet the requirements of a multi-threaded dictionary. The report included five sections:

1. Introduction of the problems
2. Architercture of the System
3. Main components of the system and their functions
4. Interaction processes
5. Innovation beyond the requirement
6. What can be improved in late versions
7. Conclusion.

**Introduction:**

The assignment 1 of COMP90015 required student to develop a multi-threaded Dictionary System. The ‘multi-threaded’ means multiple clients can connect to a (single) multi-threaded server and perform operations concurrently [1]. A single Server will process all the request, such as add a new word to the dictionary, remove a word from the local dictionary and search for the meanings, from several clients. Moreover, the two sides should both be capable of handling any exceptions such as wrong command exchanged. Losing Internet connection, I/O problem and any other potential exceptions.