COMP90015 Distributed Systems 2017

Project 1: EZShare (Alexandra, Annie, Bobby, Hugo)

## The aim of the project

The aim is to build a resource sharing platform. The platform will be implemented as a distributed system that will follow a client-server architecture. A client will initiate a connection to a server and will be allowed to query, share or download resources. The servers will communicate with each other to propagate client queries. The platform will be console-based and developed in Java 8.

## A high-level task breakdown to achieve the aim

**UML planning:**

* Create and generate UML class diagrams and associations
* Maybe some communication diagrams?? Otherwise we could just discuss this.

**Client/Server functionality to implement:**

* Publish
* Remove
* Share
* Query
* Fetch
* Exchange

For each command, a server will accept and respond whereas a client will submit and process server response. Therefore, there are **four** tasks to be implemented per command, namely, **two** tasks per client and server.

**Document, regular meeting, source control:**

* Javadac to create documentation. Requires comment guidelines
* Meetings to be held on demand as required
* We have chosen to use bitbucket for source control and minor documentation
* Meeting minutes

**Testing:**

* Deploying servers on several nectar instances to test client-server interaction

## Assignment of tasks to individuals in the group

**Design Stage:**

* Discussion required first – all members
* Bobby to draw up the UML

**Client/Server implementation:**

* Individual tasks will be delegated to members on a first
* Will use Trello to manage tasks

**Meetings, documentation & source control:**

* On the go – all members
* Source control – all members

**Testing:**

* Unit testing should be performed as we go
* Final system test in the end when all Server/Client functionality is implemented
* Test with other groups

## Expected completion of tasks

We would expect to reach testing by Sunday 19/04. That will allow for ample system testing time before project due date (unknown – sometime in week 8).