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).