Group A – Project Plan

Table of Contents

[1.0 Functional Requirements 1](#__RefHeading___Toc157_1436562261)

[1.1 Workload Generator (Web Client) 1](#__RefHeading___Toc159_1436562261)

[1.2 Web Server 2](#__RefHeading___Toc161_1436562261)

[1.3 Transaction Server 2](#__RefHeading___Toc163_1436562261)

[1.4 Client/Transaction Database 2](#__RefHeading___Toc165_1436562261)

[1.5 Auditing/Reporting Database 2](#__RefHeading___Toc275_1436562261)

[2.0 Architecture Analysis 2](#__RefHeading___Toc169_1436562261)

[3.0 Distribution Analysis 2](#__RefHeading___Toc589_1436562261)

[4.0 Stability Analysis 2](#__RefHeading___Toc591_1436562261)

# 1.0 Functional Requirements

1.1 Workload Generator (Web Client)

The web client (will) support(s)

Adding a user

In the tool bar at the top of each page is a "Sign Up" link that leads to a page where one can enter their desired user name.

Cookie to store logged in username?

Logging in (no authentication)

In the tool bar at the top of each page is a "Log in" link that leads to a page where one can enter their user name.

Again, cookies?

Account summary

Show transaction history, status of accounts, current buy/sell triggers

Getting a stock quote

Only give access to quote page if logged in? I would imagine most services would require this.

Creating buy/sell order

Presumably show account balance and owned stocks. Inputs for stock name and amount to buy/sell.

Confirm buy/sell order

Buy/Sell page could have a confirmation box on another layer that appears when the web server gets the quote, has a countdown timer, and initiates a requote if the timer runs out once. Finally, give an option to cancel the trade.

Create Buy/Sell trigger

Similar to buy/sell order page, with the addition of the trigger amount.

Admin functions?

Perhaps have a special admin user that adds the dump commands to the user page? It's one way to trigger the generation of the logs. Full dumpuser only supposed to be run from an admin account.

## 1.2 Web Server

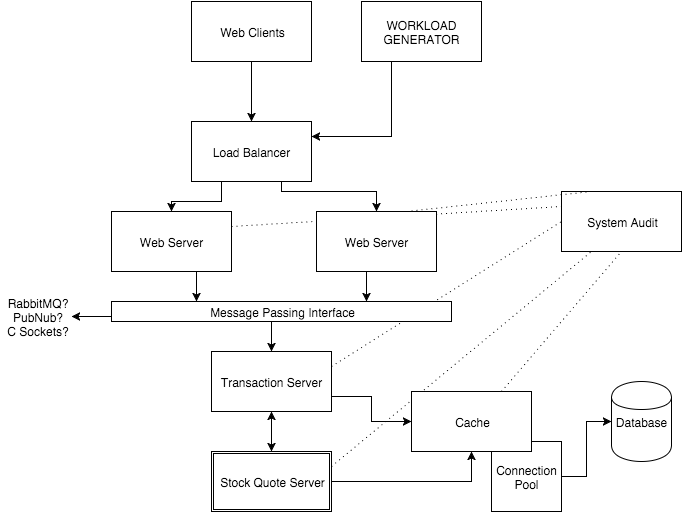
## 1.3 Transaction Server

## 1.4 Client/Transaction Database

## 1.5 Auditing/Reporting Database

# 2.0 Architecture Analysis

Figure 2.1 below shows the basic structure of the system. For the purpose of this project the workload generator will replace the web client.

Figure 2.1: First Architecture Diagram

# 3.0 Distribution Analysis

//To be decided at a later date

# 4.0 Stability Analysis

//To be decided at a later date