Chapter 5

Lab 5.1

Chapter 5 talks about automated testing of software.

For the purpose of this exercise, it is assumed that you are using a virtual machine running Ubuntu 16.04. Any other OS may require some altered commands.

Example Software

We will use Dromedary as an example software to work with. This **Node** application requires **node.js** and **npm**.

Installing Node.js and Java

Installing the **node.js** portion of this lab is based on the instructions provided at nodejs.org.

1. Add the **nodesource** repository:

```
$ curl -sL https://deb.nodesource.com/setup_6.x | sudo -E bash -
```

2. Install **node.js** and the build essential package via **apt-get**:

```
$ sudo apt-get install -y nodejs build-essential
```

3. We need to get Java to run DynamoDB. Java may already be installed. To verify, check the version:

```
$ java -version
```

4. If there is no version reported, install Java (please refer to Chapter 2, Lab 2.3):

```
$ sudo add-apt-repository ppa:openjdk-r/ppa
$ sudo apt-get update
$ sudo apt-get install openjdk-8-jdk
```


Running Dromedary Locally

1. Clone a copy of Dromedary from GitHub:

```
$ git clone https://github.com/liatrio/dromedary.git
```

2. Install the `npm` packages for Dromedary:

```
$ cd dromedary
$ npm install
```

Dromedary uses **gulp** for local development and build tasks. To achieve this, **gulp** may need to be installed globally:

```
$ sudo npm install -g gulp
```

You can simply use **gulp** in the `Dromedary` directory to start the service. By default, Dromedary runs on `http://localhost:8080`, but the port can be specified manually:

```
PORT=1337 gulp
```

You should now see Dromedary running on the port you selected, or `8080` if you choose to simply run **gulp**.