**RUNNING TEST CASE SUITES AND SETUP FOR DCRO**

Extract the stash in your local repository from [<https://stash.jda.com/users/1022177/repos/dcrotestcases/browse>]

After extracting, install python on your system. Mac already has a default python2.7.3 with it, but safer to install python >3.5.

Install XCode

The first step for Python 3 is to install Apple’s [Xcode](https://developer.apple.com/xcode/) program which is necessary for iOS development as well as most programming tasks. We will use XCode to install Homebrew.

In your **Terminal** app, run the following command to install XCode and its command-line tools:

$ xcode-select --install

It is a large program so this make take a while to download. Make sure to click through all the confirmation prompts XCode requires.

Install Homebrew

Next install Homebrew by copy/pasting the following command into **Terminal** and then type **Enter**:

$ ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

To confirm Homebrew installed correctly, run this command:

$ brew doctor

Your system is ready to brew.

Install Python 3

Now we can install the latest version of Python 3. Type the following command into **Terminal** and press **Enter**:

$ brew install python3

After python is running, type python -version in terminal.

After this there are the following libraries required.

To ease installation, we will install pip in our terminal.

In your terminal run

sudo easy\_install pip

After this install pyarrow, in your terminal type

pip install pyarrow

After this install numpy in your terminal type

Pip install numpy

After this install pandas, (with an ‘s’), in your terminal type

Pip install pandas

open application.properties in your code. Set the following properties in that

isLocalFileStorage :true

outputstoragetype :parquet

inputdir :/Users/1022177/dcrotestcases/dcroengineinput/

outputdir :/Users/1022177/dcrotestcases/dcroengineoutput/

here **inputdir** will be path of dcroengineinput folder of dcrotestcases repository in your local machine.

In the dcrotestcases folder create a folder dcroengineoutput.

And set its path as **outputdir** in application.properties file.

Build the code

1. either through eclipse by Gradle -> Refresh Gradle Project
2. or from terminal ./gradlew build

After this, in your local, bring the localhost:8080 hosting server up, or from Eclipse, using Run As Server mode.

After the server is up, execute the following python script.

In your terminal type,

Python executeTestCases.py

This will run the test cases.

There will be testCaseResult directory created, corresponding to the latest timestamp open the report and check

**testcasereport.html**

Or compare the two files using BeyondComapre or Compare it,

**consolidatedBaseLineFile.txt and consolidatedoutputFile.txt.**

**Suggestions for further improvement:**

1. consolidate the all 8 files results

2. handle the case where baselines are not present

3. add columns in reporting for each file

4. add link to folder in report

5. make a configuration parameter to run few testcases