**What is this?**

**JMeter for Appian** is a tool for Performance testing Appian using JMeter.

**Overview**

Using this plugin JMeter provides an "easy" way record and replay Appian processes.

**Usage and Contributions**

To use JMeter on your project, please follow the steps identified below for setting up the testing framework and creating/executing test cases.

We ask that whenever possible, you contribute back to the repository and the Appian PS community by:

* adding any missing parameterization that's necessary
* fixing issues and defects
* implementing enhancements

As we work and contribute to make this tool better, we will take the greatest care to ensure that the next versions are backwards compatible.

**We can help only if we know where the problems are!**

**Installation**

**Installation**

1. Download the newest version of [JMeter](http://apache.mirror.serversaustralia.com.au/jmeter/binaries/apache-jmeter-3.0.zip).
2. Unzip the release package and put the contents into JMETER\_HOME which contains the following:
   1. ApacheJMeter\_http.jar – this replaces the OOTB version with a few changes
   2. ApacheJMeter\_components.jar – this replaces the OOTB version with a few changes
   3. jmeter-for-appian-X.X.jar – this contains Appian specific functionality
   4. jmeter.properties – this turns on cookie settings
3. Download the example template file template.jmx from the release.

**Recording Your First JMeter Test**

1. Start JMeter if it isn't already running:
   1. In a command prompt navigate to JMETER\_HOME\bin.
   2. Run jmeter.bat.
2. Open the template.jmx file included in the release.
3. Update the following in JMeter:
   1. User Defined Variables (Test Plan and WorkBench) - Change **BASE\_URL** value to the correct site URL.
   2. HTTP Request Defaults (Test Plan and WorkBench) - Change **Server Name or IP** to the correct site URL.
   3. HTTP(S) Test Script Recorder - Change **URL Patterns to Include** to correct site URL. All periods in the middle of the URL must be escaped with a backslash '\'. Leave the .\* at the beginning and end of URL.
4. Start recording - click **Start** on HTTP(S) Test Script Recorder.
5. Install the JMeter certificate:
   1. Right click JMETER\_HOME\bin\ApacheJMeterTemporaryRootCA.crt and click Install Certificate.
   2. Follow Next > Place all certificates in the following store > **Trusted Root Certification Authorities** > Next > Finish > Yes > OK
   3. Configure browser to run through a proxy - Settings > Advanced > Change proxy settings > LAN settings > Use a proxy server for your LAN  
      **Address**: localhost  
      **Port**: 8090
   4. At this point samples should be recorded if you navigate to the site URL.
6. Take the following actions:
   1. Navigate to the login page.
   2. Login.
7. Move all of the created samples in the **Recording Controller** into the **Login (Test Fragment)**.
8. Take the following actions:
   1. Navigate to the Actions tab.
   2. Click on an action.
   3. Complete the action.
9. Stop Recording - click **Stop** on HTTP(S) Test Script Recorder.
10. Move all of the created samples in the **Recording Controller** into the **Action (Test Fragment)**.
11. You can now run the performance test again by clicking the green run arrow.
12. View the results by clicking on **Graph Results**, **Summary Report**, or **View Results Tree**.

**Development Environment Setup**

**Setup Maven**

1. Download [Maven](http://maven.apache.org/).
2. Configure M2\_HOME environment variable to point to your Maven installation directory.
3. Add %M2\_HOME%\bin to PATH environment variable.
4. Add Git to PATH environment variable.

**Clone the GitHub Repo**

1. Clone the project repo to your local computer using git clone git@github.com:mchirlin/ps-ext-JMeterForAppian.git

**Eclipse Setup**

1. Setup the M2\_REPO variable in Eclipse by running: mvn eclipse:configure-workspace -Declipse.workspace="<your-eclipse-workspace>".
   * If you don't know your eclipse workspace, open your Eclipse preferences and go to General > Startup and Shutdown > Workspaces.
2. Cleanup any existing Eclipse project files mvn eclipse:clean
3. Generate new Eclipse project files by running the following from the root of the Labs repo working directory: mvn eclipse:eclipse.
4. Open Eclipse.
5. Import the projects using File > Import > General > Existing Projects into Workspace.
6. Select the repo folder and import the project.

**Dev Testing**

**Create New Installation Package**

1. Run mvn package
2. Drop new jmeter-for-appian-X.X.jar into JMETER\_HOME\lib\ext
3. Start JMeter