

# **AFSG**

(Assurant Framework Step Generator)

# **User Manual**

Prepared for

AEB, Kansas

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# **Section 1: About This Document**

The Framework Step Generator User Manual is designed with a purview of answering the most frequently asked question – "How does Step Generator –Work?"

The document highlights on step generator utility usage and its advantages. The document also speaks about to usage of the Step Generator to create; update and deletion of test steps in automation script along with object management and script execution.

#### **Overview**

The framework step generator uses different types of test artifacts to create; update and deletion of objects and test steps for new test scripts. They are Admin login, Step Creation, Add Object and Delete/Update Object. All these artifacts are *stored* in i-ASTG folder.

#### **Types of Artifacts**

| Test Artifacts   | Description   | Location   | Can be modified?   |
|--|---|--|--|
| Login  | The main page where user uses his/her LAN ID and password to login to the application   | T:\Test Services\Offshore<br>Folder\Final_VI\HTML PRoj/Login.html  | Yes. Only user having access to QC Project: AEB_AUTOMATION and Domain: Web_Automation can login.   |
| Index Page  • Select Application  • Add Application  • Update Application  • Delete Application                        | This page contains "Select Applications, object Repository and Test Script Path browse button" i.e. Available Applications for automation along with Application Object Repository path and Test Script Path (XML). | E.g.: Application Name: SAS Application OR Path: T:\Test Services\Offshore Folder\Final_VI\HTML PRoj\XML\Application OR\SAS\SAS.xml Test Script Path: T:\Test Services\Offshore Folder\Final_VI\HTML PRoj\Ir1385\temp\temp.xml | Yes. Select Application and Test Script path can be modified.  |
|  | Add Step tab contains Test<br>Case details i.e. Test Case Id,<br>objects details and its<br>respective action list and data<br>parameter.   |  | Yes. Add Step for automation can be added and it can be modified.  |
| Framework Page   | Object Repository tab contains the list of the properties to be added in to the object.   |  | Yes. Adding the objects with different properties can be achieved.   |
| <ul><li>Add Step</li><li>Object Repository</li><li>Action Management</li><li>Function Library<br/>Management</li></ul> | Action Management tab is to manage actions i.e. new keywords to add or to change the name of the existing actions.  |  | Yes. Adding the actions can be achieved.   |
| Execute Script   | Function Library Management tab is to manage the paths of function library.   |  | Yes. Adding the function libraries along with paths can be achieved.   |
|  | Execute Script tab is to execute scripts.   |  | Yes. User can execute script from this tab by passing the Test Case ID.  |
| Config.txt   | This Properties file can be accessed using notepad and configure the settings for the paths of the different files.   | //config.txt   | Yes. We need to make sure that all the settings in this file are valid before executing a test case.  Values can be changed by opening file from the login Page. |

| Test Artifacts        | Description   | Location  | Can be modified?              |
|-----------------------|---|---|-------------------------------|
| Temp.xml              | This XML contains the temporary test case of the test cases to be executed.     | \\Users\ <user name="">\ Temp\ temp.xml e.g. For <i>Ir1385</i> application: \\Users\Ir1385\Temp\temp.xml</user> | No.                           |
| Actions.XML           | This XML contains the set of actions.   | XML\Actions.xml   | Yes. From application itself. |
| ApplicationsList.XML  | This XML contains the set of Applications.                                      | XML\ ApplicationsList.xml   | Yes. From application itself. |
| Class.XML             | This XML contains the set of Classes and classID.                               | XML\ Class.xml  | Yes. From application itself. |
| FunctionLibraries.XML | This XML contains the set of Function Libraries and path of Function Libraries. | XML\ FunctionLibraries.xml  | Yes. From application itself. |

# Main Folder \\StepGenerator help Users XML config.txt Framework.html index.html

# **User Folder** \\ StepGenerator \Users

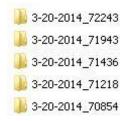
Login.html



# User Folder \\ StepGenerator \Users\Ir1385



#### **Results Folder** \\ StepGenerator \Users\Ir1385\Results



**Result File** \\ StepGenerator \Users\Ir1385\Results\



# Temp Folder \\ StepGenerator \Users\Ir1385\temp\



| Folder  | Description   |
|---------|---|
| Users   | <ul> <li>Individual user level folder.</li> <li>Used to manage files for user level.</li> </ul>                                 |
| Results | <ul> <li>Used to store execution results. Date and Time stamp is used to differentiate.</li> <li>Ex: 3-20-2014_72243</li> </ul> |
| Temp    | <ul><li>Temporary folder to save the current xml and xls.</li><li>Contains temp.xml and teml.xls</li></ul>                      |

#### **Prerequisites**

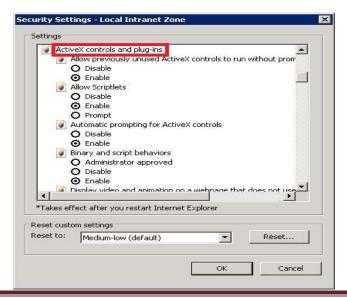
- 3.1.1 Windows XP/ windows 7
- 3.1.2 HP QTP
- 3.1.3 HP QC Credentials
- 3.1.4 Internet Explorer Version 8
- 3.1.5 Access to "\T Drive"

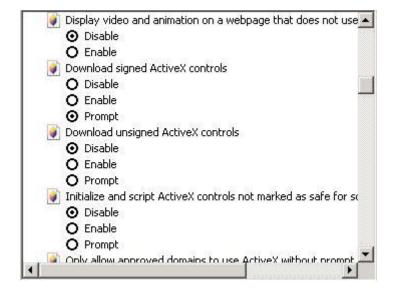
#### **Browser Settings**

- Note: Supported Browsers: IE8. Following settings are related to IE8
- Step 1: Go to Tools ->Internet Options.
- Step2: Click on the Local internet symbol and click on Custom Level button

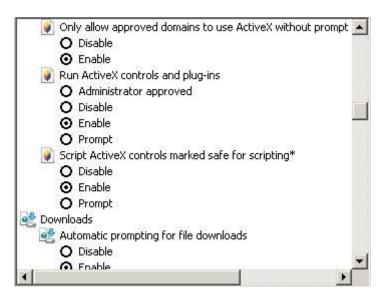


Step 3: In the ActiveX controls and plug-ins options mark everything "enabled".

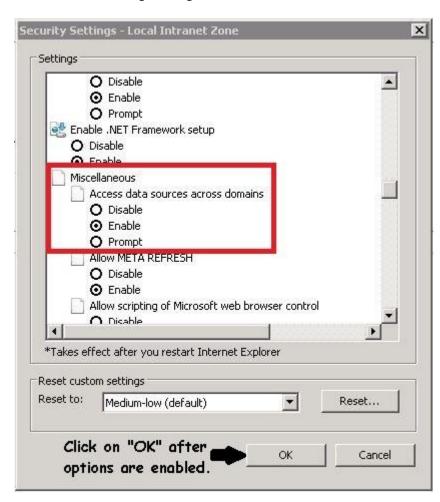


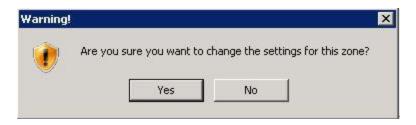


Select **Enable** up to Script ActiveX controls marked safe for scripting\*

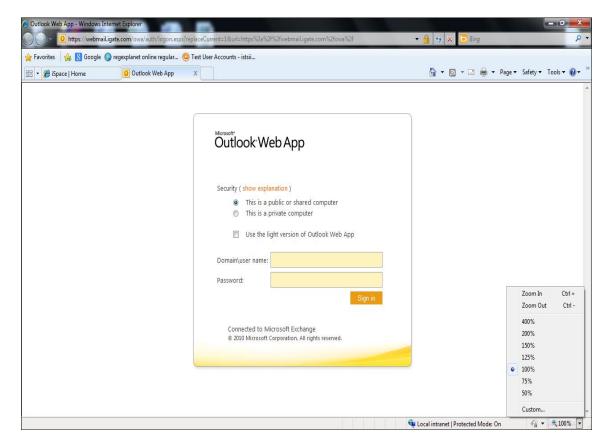


Step 4: Scroll down to Miscellaneous Options, Select **Enable** for "Access data sources across domains". Step 4: Click on "OK" button and then if it throws a warning message, click on Yes





Step 6: Make sure that Zoom is set to 100% in IE.



Step 7: Install IE.reg from the home folder. This is required to avoid unnecessary script prompts.

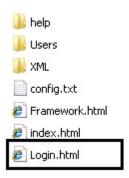


#### 4.1 Prerequisites

- o HP Quality Center credentials should be available.
- o Browser setting should set prior to launch the login file.

#### 4.2 Login to Step Generator

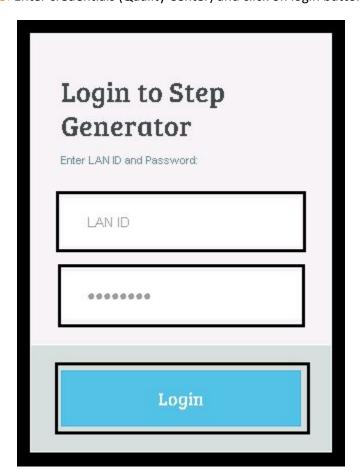
Step 1: Open 'Login.html' placed in the 'Step Generator' folder.



Step 2: Change the config settings if required from the link available on the Login Page (Right Bottom of the page).



Step 3: Enter credentials (Quality Center) and click on login button.



#### 4.3 Application Maintenance

#### 4.3.1 Select Application

This tab is used to select the application available from the list.

**Application Name**: Drop Down with all available applications.

Application OR Path: Not editable. This box shows the path of Application Object Repository Path.

XML Script Path: To select the existing Test file (in xml format).

| Select Application  | Add Application                      | Update Application                     | Delete Application         |
|---------------------|--------------------------------------|--|----------------------------|
| Select Applie       | cation:                              |  |                            |
| Application Name:   | Compass                              |  | Continue                   |
| Application OR Path | T:\Test Services\(<br>OR\Compass\Con | Offshore Folder\Final_VI`<br>npass.xml | \HTML PRoj\XML\Application |
| XML Script Path:    |                                      | Browse                                 |                            |

#### 4.3.2 Add Application

This tab is used to add new application.

Step 1: On Step Generator Home Page, click on "Add Application" tab.

| Select Application | Add Application | Update Application | Delete Application |  |
|--------------------|-----------------|--------------------|--------------------|--|
| Add Applica        | tion:           |                    |                    |  |
| Application Name:  |                 |                    | Add Application    |  |
|                    | 1:              |                    |                    |  |

Step 2: Enter Name of the application and path of the Object Repository in XML format of the new application. **Example**:

Application Name: "TestApplication"

Application OR Path: "T:\Test Folder\TestApplication.xml"

|                     | 82 83             | <u>V</u>         | 165 36          |  |
|---------------------|-------------------|------------------|-----------------|--|
| Add Applica         | tion:             |                  |                 |  |
| Application Name:   | TestAppliacation  |                  | Add Application |  |
| Application OR Path | T:\Test Folder\Te | stApplication.xm |                 |  |

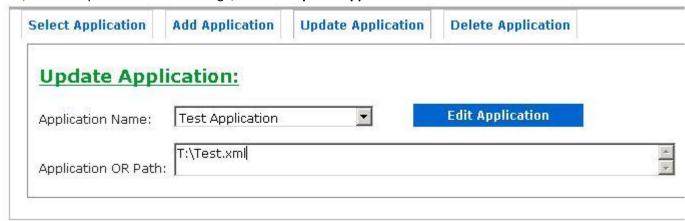
Step 3: Click on Add Application button. Click "OK" on the message box.



#### 4.3.3 Edit Application

This tab is used to update the **Application OR Path**.

Step 1: On Step Generator Home Page, click on "Update Application" tab.



Step 2: Enter Name of the application and path of the Object Repository in XML format of the new application. **Example**:

Application Name: "TestApplication"
Application OR Path: "T:\TestApplication.xml"

| Select Application | Add Application    | Update Application | Delete Application |  |
|--------------------|--------------------|--------------------|--------------------|--|
| Update App         | lication:          |                    |                    |  |
| Application Name:  | Test Application   |                    | Edit Application   |  |
|                    | T:\TestApplication | vml                |                    |  |

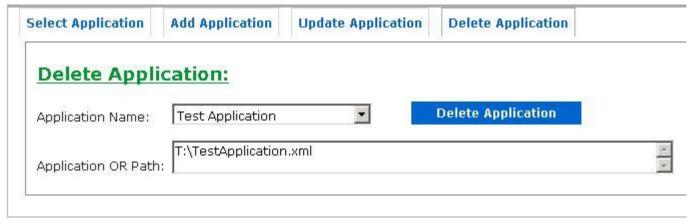
Step 3: Click on Edit Application button. Click "OK" on the message box.



# 4.3.4 Delete Application

This tab is used to delete the **Application**.

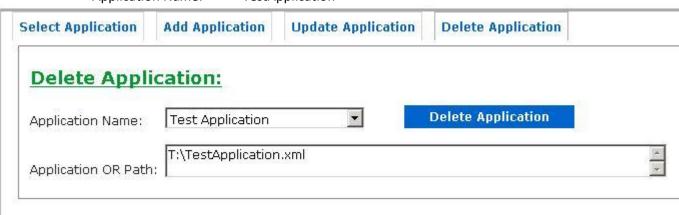
Step 1: On Step Generator Home Page, click on "Update Application" tab.



Step 2: Select Application from the list.

Example:

Application Name: "TestApplication"



Step 3: Click on **Delete Application** button. Click "**OK**" on the message box.



#### **4.4 Object Repository Management**

#### 4.4.1 Adding Objects in Object Repository

Adding TestObject in object Repository

In this example, TestObject is WebEdit and its parent object is WebPage which is AEB\_Page which in turn is child of Browser named AEB\_Browser.

i.e. Hierarchy is like:

# AEB\_Browser().AEB\_Page().TestObject()

Step 1: Select Application from the list.

Example: SAS

| elect Application   | Add Application                       | Update Application       | Delete Application         |
|---------------------|---------------------------------------|--------------------------|----------------------------|
| Select Appli        | cation:                               |                          |                            |
| Application Name:   | SAS                                   |                          | Continue                   |
| Application OR Path | T:\Test Services\(i<br>OR\SAS\SAS.xml | Offshore Folder\Final_VI | \HTML PRoj\XML\Application |
| XML Script Path:    |                                       | Browse                   |                            |

# Step 2: Click on "Continue" button.

| Select Appli        | ration:            |                           |                                       |   |
|---------------------|--------------------|---------------------------|---------------------------------------|---|
| ocicce Appli        |                    |                           |                                       |   |
| Application Name:   | SAS                | <b>V</b>                  | Continue                              |   |
|                     | T:\Test Services\O | offshore Folder\Final_VI\ | ,HTML PRoj\XML\Application            | 1 |
| Application OR Path | ; OR\SAS\SAS.xml   |                           | · · · · · · · · · · · · · · · · · · · | ¥ |
| XML Script Path:    | T:\Test Services\O | iffsh Browse              |                                       |   |

#### Step 3: Click on "Object Repository" Tab.

| Add <u>S</u> tep Object Repository Action Managment Function Libraries | Execute Script |           |                       |
|--|----------------|-----------|-----------------------|
| *Common Name: Path:  | *Property1:    | *Value1:  | Add Object            |
| *Class Name: Select value  *Class ID: *Class ID:                       | Property2:     | ¥alue2:   | <u>U</u> pdate Object |
| Clear  | Property3:     | ₩ Value3: | Delete Object         |

Step 4: Enter Common Name; it should be unique and not used before.

Example: TestObject (WebEdit)

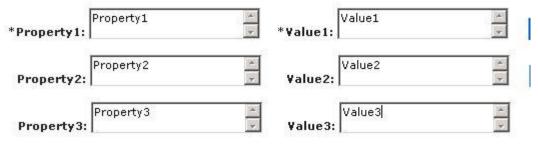
Enter Path. Hierarchy to parent objects. Example: AEB\_Browser.AEB\_Page

Select Class Name, Class ID will be populated automatically.

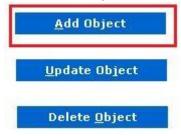
Example: WedEdit

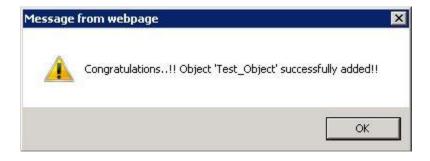


Step 5: Using QTP "Object Spy", get the object properties and add them.



Step 6: Click on "Add Object". Click on Ok Button on message box.





# 4.4.2 Editing Objects in Object Repository

Editing TestObject in object Repository

In this example, TestObject is WebEdit and its parent object is WebPage which is AEB\_Page which in turn is child of Browser named AEB\_Browser.

i.e. Hierarchy is like:

# AEB\_Browser().AEB\_Page().TestObject()

Step 1: Select Application from the list.

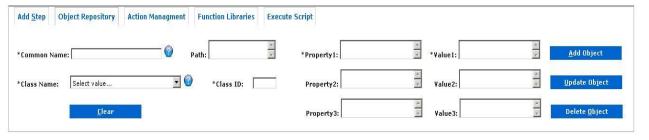
Example: SAS

| Select Application  | Add Application | Update Application       | Delete Application         |  |
|---------------------|-----------------|--------------------------|----------------------------|--|
| Select Appli        | cation:         |                          |                            |  |
| Application Name:   | SAS             |                          | Continue                   |  |
| Application OR Path |                 | Offshore Folder\Final_VI | \HTML PRoj\XML\Application |  |
| XML Script Path:    |                 | Browse                   |                            |  |

#### Step 2: Click on "Continue" button.

| Select Applica       | actorn             |                         |                              |     |
|----------------------|--------------------|-------------------------|------------------------------|-----|
| 2                    | i.                 |                         |                              |     |
| Application Name:    | SAS                |                         | Continue                     |     |
| 1                    | T:\Test Services\( | Offshore Folder\Final \ | VI\HTML PRoj\XML\Application | n 📤 |
| Application OR Path: | OR\SAS\SAS.xml     |                         |                              | Ψ   |

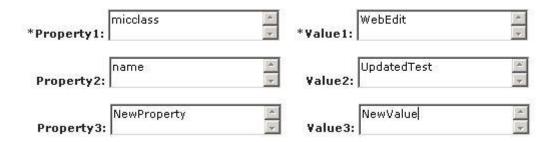
# Step 3: Click on "Object Repository" Tab.



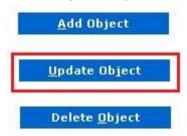
Step 4: Enter Common Name and press "**Tab**", this will load the properties Example: TestObject (WebEdit)

| Add <u>S</u> tep | Object Repository | Action Managment | Function Libraries | Execute Script |           |               |              |        |
|------------------|-------------------|------------------|--------------------|----------------|-----------|---------------|--------------|--------|
| *Common N        | ame: Test_Object  | <b>②</b>         | AEB_WriteUp        | *Property1     | micclass: | *Value1       | WebEdit<br>: | K.     |
| *Class Nam       | e: WebEdit        | • @              | *Class ID: 16      | Property2      | name :    | ¥ Value2      | Test         | *<br>* |
|                  | <u>C</u> lear     |                  |                    | Property3      | :         | ↑<br>▼ Value3 | :            | ÷      |

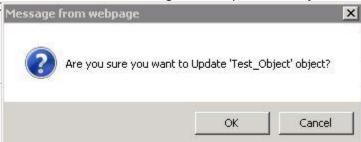
Step 5: Using QTP "Object Spy", get the object properties and update the required ones or add new property if available. User can also update Path and Class.



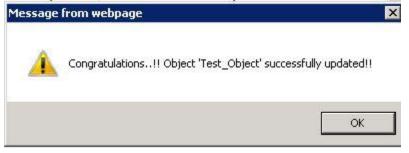
Step 6: Click on "Update Object".



Step 7: Click on Ok Button on message box to update the object.



Step 8: Click on OK box once again. Verify the properties of the updated object.



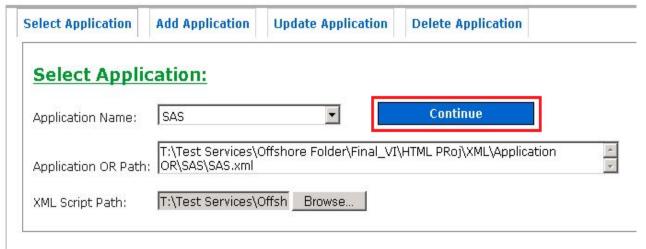
#### 4.4.3 Deleting Objects in Object Repository

Deleting TestObject in object Repository

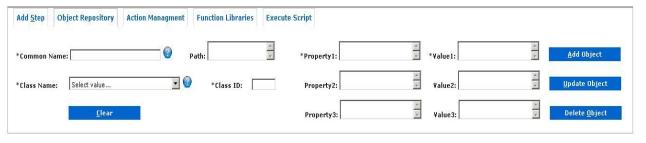
Step 1: Select Application from the list. Example: SAS

| Select Application  | Add Application | Update Application       | Delete Application         |  |
|---------------------|-----------------|--------------------------|----------------------------|--|
| Select Appli        | cation:         |                          |                            |  |
| Application Name:   | SAS             |                          | Continue                   |  |
| Application OR Path |                 | Offshore Folder\Final_VI | \HTML PRoj\XML\Application |  |
| XML Script Path:    | 4) <sup>6</sup> | Browse                   |                            |  |

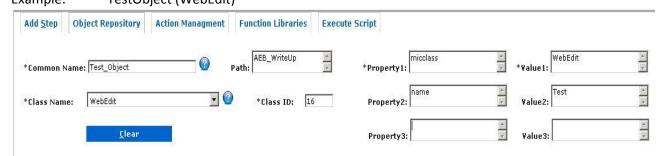
Step 2: Click on "Continue" button.



Step 3: Click on "Object Repository" Tab.



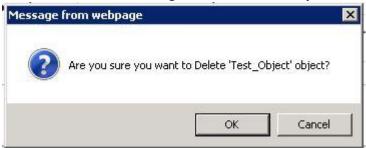
Step 4: Enter Common Name and press "**Tab**", this will load the properties Example: TestObject (WebEdit)



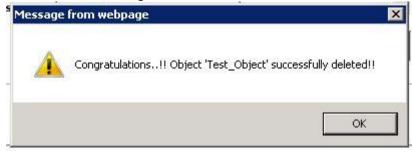
Step 5: Click on "Delete Object".



Step 6: Click on Ok Button on message box to delete the object.



Step 7: Click on OK box once again.



#### **4.5 Action Management**

This tab is used to manage actions.

Whenever new keyword is added in the function library (in QTP) we need to add the corresponding action name also. This task is achieved from Action Management tab.

Also , sometimes we also need to update or delete the action, same thing can also be done from Action Management tab.

#### 4.5.1 Adding Actions in Step Generator

Below are the steps for adding action in the utility.

Step 1: Select Application from the list. Example: SAS

| Select Application  | Add Application | Update Application       | Delete Application         |
|---------------------|-----------------|--------------------------|----------------------------|
| Select Appli        | cation:         |                          |                            |
| Application Name:   | SAS             |                          | Continue                   |
| Application OR Path |                 | Offshore Folder\Final_VI | \HTML PRoj\XML\Application |
| XML Script Path:    | F               | Browse                   |                            |

# Step 2: Click on "Continue" button.

| Select Appli        | cation:            |                          |                           |     |
|---------------------|--------------------|--------------------------|---------------------------|-----|
| Application Name:   | SAS                |                          | Continue                  |     |
| Application OR Path |                    | Offshore Folder\Final_VI | \HTML PRoj\XML\Applicatio | n A |
|                     | T:\Test Services\( | Offsh Browse             |                           |     |

Step 3: Click on "Action Management" Tab.

| Add Step Object Re | pository Action Manag | ement Function Librari | es Execute Script |  |
|--------------------|-----------------------|------------------------|-------------------|--|
| Action Name:       | <b>②</b>              | Updated Ad             | ction Name:       |  |
| <u>A</u> dd Action | <u>U</u> pdate Action | D <u>e</u> lete ction  |                   |  |

Step 4: Enter the name of the action.

Example: "Test\_Action"



Step 5: Click on "Add Action" Button. Click on "OK" button on the alert box.



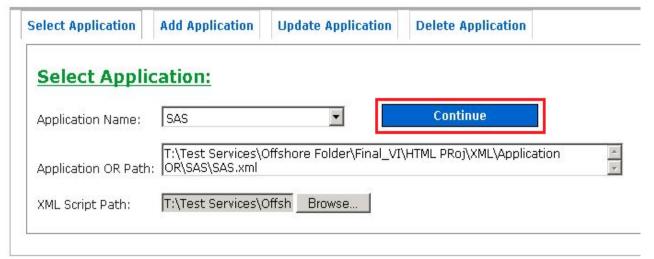
#### 4.5.2 Editing Actions in Step Generator

Below are the steps for editing action in the utility.

Step 1: Select Application from the list.

Example: SAS Select Application **Add Application Update Application Delete Application** Select Application: Continue SAS Application Name: T:\Test Services\Offshore Folder\Final\_VI\HTML PRoj\XML\Application Application OR Path: | OR\SAS\SAS.xml Browse... XML Script Path:

#### Step 2: Click on "Continue" button.



#### Step 3: Click on "Action Management" Tab.



"Test Action"

#### Step 4: Enter the name of the action and **Updated Action Name** to change the name.

Action Name:

Example: Updated Action Name: "Test\_Action\_Updated" Add Step **Object Repository Action Management Function Libraries Execute Script** Action Name: Test\_Action Updated Action Name: Test\_Action\_Updated <u>Update Action</u> D<u>e</u>lete ction Add Action

Step 5: Click on "Update Action" Button. Click on "OK" button on the alert box.

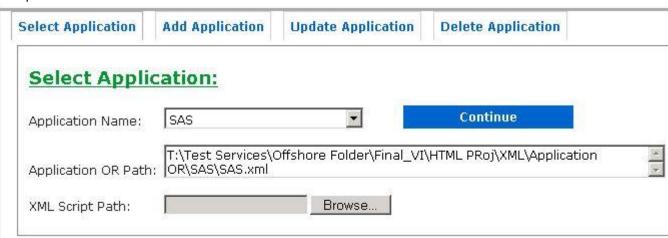


#### 4.5.3 Deleting Actions in Step Generator

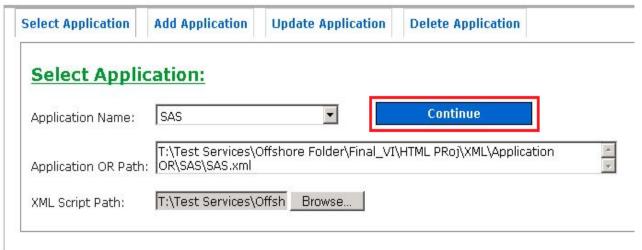
Below are the steps for deleting action in the utility.

**Step 1:** Select Application from the list.

Example: SAS



Step 2: Click on "Continue" button.



#### Step 3: Click on "Action Management" Tab.



Step 4: Enter the name of the action to delete.



Step 5: Click on "Delete Action" Button. Click on "OK" button on the alert box.



# **4.6 Function Library Management**

This tab is used to manage Function Library.

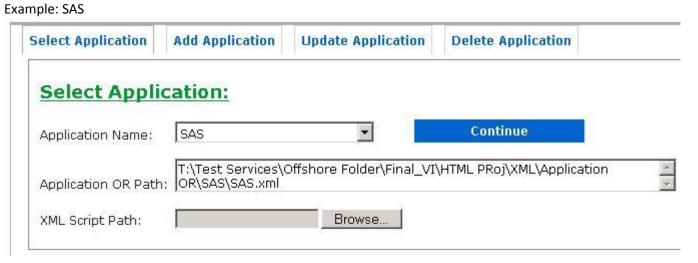
Whenever new Function Library is added (in QTP) we need to add the corresponding Function Library name also. This task is achieved from Function Libraries tab.

Also, sometimes we also need to update or delete the Function Library, same thing can also be done from Function Libraries tab.

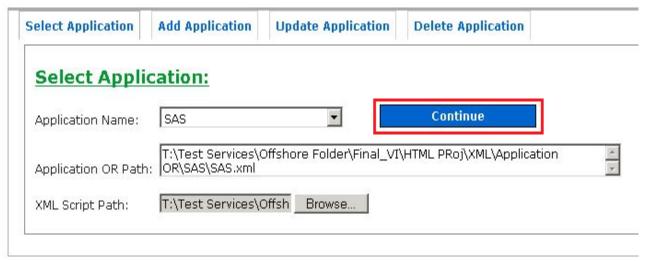
#### 4.6.1 Adding Function Library in Step Generator

Below are the steps for adding Function Library in the utility.

Step 1: Select Application from the list.



#### Step 2: Click on "Continue" button.



### Step 3: Click on "Function Libraries" Tab.



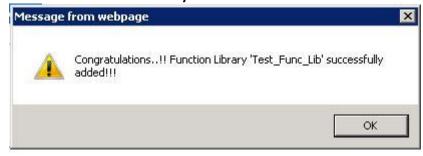
Step 4: Enter the name of the Function Library.

Example: Function Library: "Test\_Func\_Lib"

Function Library Path: "T:\Test.qfl"



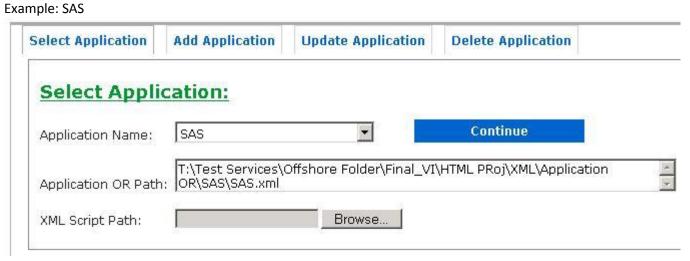
Step 5: Click on "Add Function Library" Button. Click on "OK" button on the alert box.



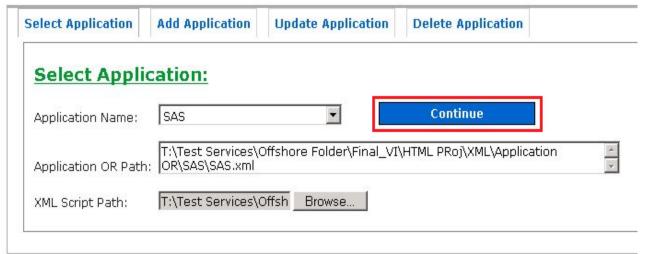
#### 4.6.2 Editing Function Library path in Step Generator

Below are the steps for editing action in the utility.

**Step 1:** Select Application from the list.



#### Step 2: Click on "Continue" button.



#### Step 3: Click on "Function Libraries" Tab.



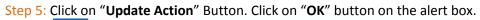
#### Step 4: Select Function Name and Enter **Updated** Action Name to change the path.

Example: Function Library: "Test\_Action"
Function Library Path: "T:\Test\_Updated\_Path.qfl"

Add Step Object Repository Action Management Function Libraries Execute Script

Function Library: Test\_Func\_Lib Function Library Path: T:\Test\_Updated\_Path.qfl

Add Function Library Update Library Delete Library





#### 4.6.3 Deleting Function Library in Step Generator

Below are the steps for deleting Function Library in the utility.

Step 1: Select Application from the list.

Select Application Add Application Update Application Delete Application

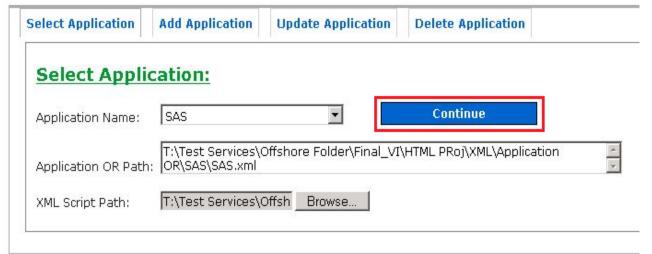
Select Application:

Application Name: SAS Continue

T:\Test Services\Offshore Folder\Final\_VI\HTML PRoj\XML\Application

Application OR Path: Browse...

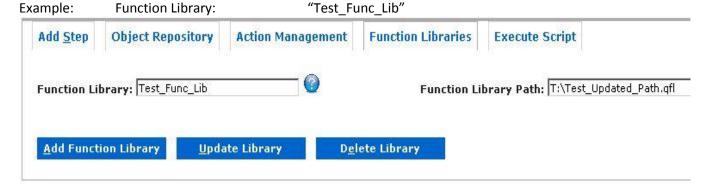
#### Step 2: Click on "Continue" button.



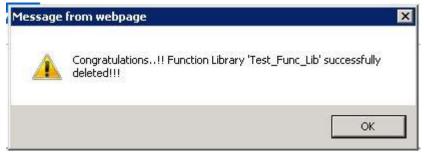
#### Step 3: Click on "Function Libraries" Tab.



#### Step 4: Enter the name of the Function Library to delete.



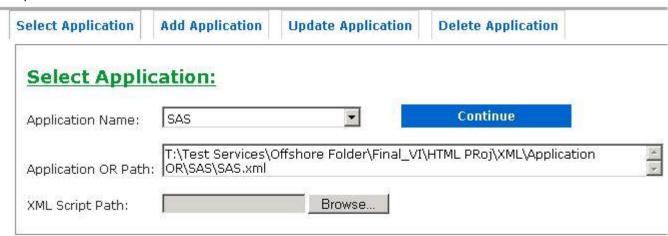
Step 5: Click on "Delete Action" Button. Click on "OK" button on the alert box.



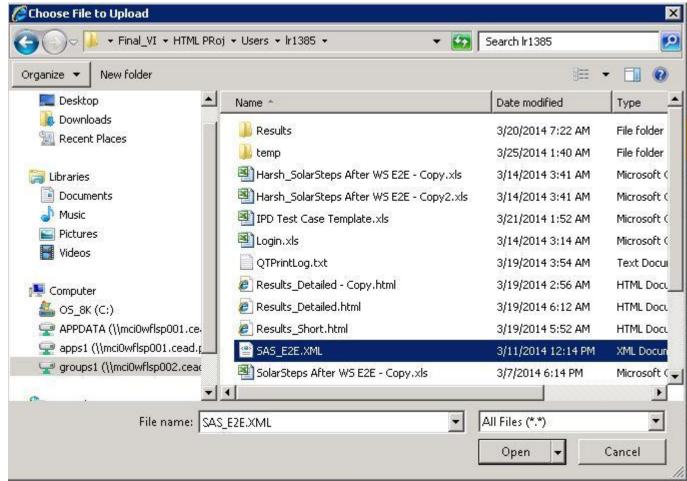
#### 4.7 Selecting existing Test Case (.xml)

Step 1: Select Application from the list.

Example: SAS



Step 2: Click on Browse and select the xml file.



Example: SAS E2E.XML

**NOTE:** Only \*.xml files are allowed to select.

Step 3: Click on "Continue" button

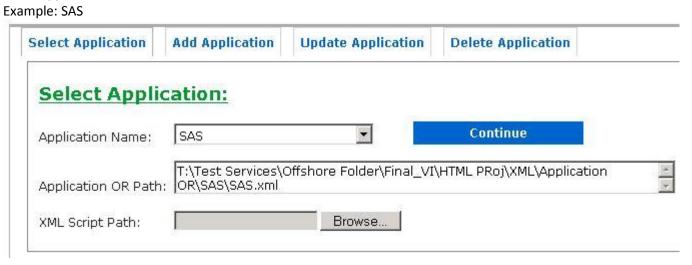
| Select Application  | Add Application    | Update Application        | Delete Application         |
|---------------------|--------------------|---------------------------|----------------------------|
| Select Appli        | cation:            | 4                         |                            |
| Application Name:   | SAS                |                           | Continue                   |
| Application OR Path |                    | Offshore Folder\Final_VI\ | \HTML PRoj\XML\Application |
| XML Script Path:    | T:\Test Services\0 | Offsh Browse              |                            |

Step 4: Verify Table in the bottom section of the **Framework Utility** Page.

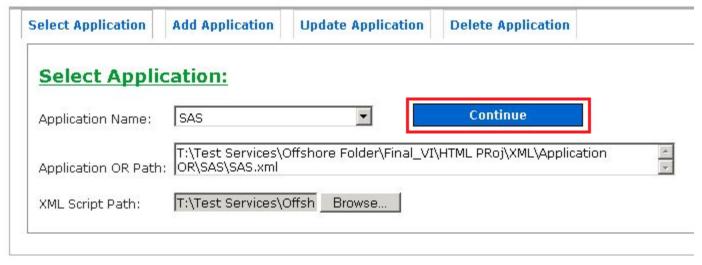
|    | TestCase | Skip | Break | Object          | Action         | Data  | Add Ste |
|----|----------|------|-------|-----------------|----------------|---|---------|
| ij | SAS      |      |       |                 | func_startTest | "stage","TSAUTE2E","525d67cbe5474f8595a4688d86c6fcded41fa6f6e31713a0" | + ADI   |
| j  | SAS      |      |       | strGrpName      | assign         | "E2E_02242012"  | + ADI   |
|    | SAS      |      |       | strGroupOffice  | assign         | "Charlotte"   | + ADI   |
|    | SAS      |      |       | strProducerName | assign         | "broker"  | + ADI   |
|    | SAS      |      |       | strProducerld   | assign         | "9000007900000"   | + ADI   |

#### 4.8 Starting with new Test Case

Step 1: Select Application from the list.



Step 2: Click on "Continue" button.



#### 4.9 Add Step Tab

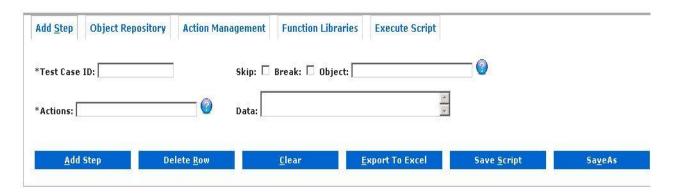
#### 4.9.1 Writing Test Case

There are two ways of writing test cases using Step Generator

- 1. Using the GUI available in the top section.
- 2. Directly writing in the web-table.

# 4.9.1.1 Using the GUI

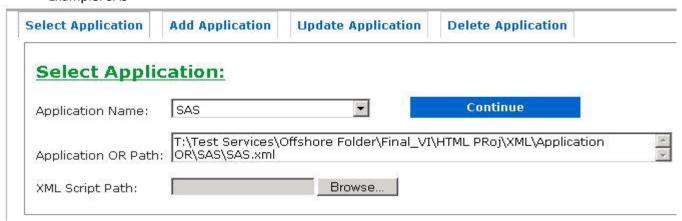
**Understanding GUI:** 



| Field Name   | Description  |
|--------------|--|
| Test Case ID | Mandatory field.  Test Case ID of the test Script Example "TC01"               |
| Skip         | Check Box. Check to skip the step.   |
| Break        | Check Box. Check to have a break during execution on the step (For debugging). |
| Object       | Textbox. Object Name. Fetched from object repository.                          |
| Actions      | Mandatory field. Action Name or " <b>keyword</b> ".                            |
| Data         | Textbox. For entering data of the step.  |

Below are the steps for writing test case.

Step 1: Select Application from the list. Example: SAS

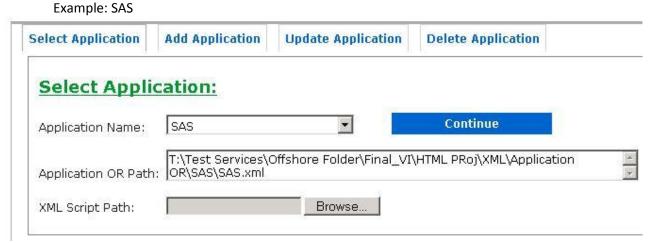


Step 2: Click on "Continue" button. **Select Application Add Application Update Application Delete Application** Select Application: Continue -SAS Application Name: T:\Test Services\Offshore Folder\Final\_VI\HTML PRoj\XML\Application Application OR Path: OR\SAS\SAS.xml XML Script Path: Browse... Step 3: Enter details in Add Step Tab for ⇒ Test Case ID : "TC01" "Uncheck" ⇒ Skip: ⇒ Break: "Check" "AEB\_WriteUp" ⇒ Object: "msgbox" ⇒ Action: "This is a test step" Data: Add Step **Object Repository Action Management Function Libraries Execute Script** \*Test Case ID: TC01 Skip: Break: V Object: AEB\_WriteUp This is a test step \*Actions: msgbox Add Step Delete Row Clear Export To Excel Save Step 4: Click on "Add Step" button. Verify Step in the Table below the tab. Add Step Delete Row <u>C</u>lear <u>Export To Excel</u> Save <u>S</u>cript AEB\_WriteUp + ADD This is a test step

# 4.9.1.2 Using the Web-Table

We can directly use the web table (Only after first step is added from the GUI). Below are the steps for writing test case.

Step 1: Select Application from the list.



Step 3: Enter details in Add Step Tab for

Application OR Path:

XML Script Path:

 $\Rightarrow$ 

Step 2: Click on "Continue" button.

"TC01" ⇒ Test Case ID : "Uncheck"  $\Rightarrow$ Skip: "Check" ⇒ Break: "AEB\_WriteUp"  $\Rightarrow$ Object:

"msgbox" Action: "This is a test step" Data:

OR\SAS\SAS.xml



T:\Test Services\Offshore Folder\Final\_VI\HTML PRoj\XML\Application

Browse...

Step 4: Click on "Add Step" button. Verify Step in the Table below the tab.





Step 5: Click on "+ Add" button in the last column of the Web-Table. Test Case will automatically be populated.



Step 6: Enter the details same as required.

"TC01" Test Case ID: "Uncheck"  $\Rightarrow$ Skip: "Uncheck"  $\Rightarrow$ Break: "AEB\_WriteUp"  $\Rightarrow$ Object:  $\Rightarrow$ Action: "msgbox"  $\Rightarrow$ Data: "This is a second test step"



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#### 4.9.1.3 Re-Usable Scripts

Step Generator can also handle Re-usable scripts.

Syntax: mod\_

Use mod\_in action to along with some prefix (for eg: mod\_Test1, mod\_Test2 etc.)

In Data column enter the path of the xls file you want to use.

For example: If Login is the file (**Location**: T:\Test Services\Offshore Folder\Final\_VI\HTML PRoj\Users\Ir1385\Harsh Temp\Login.xls) which we want to use in our Test Script then we will write:

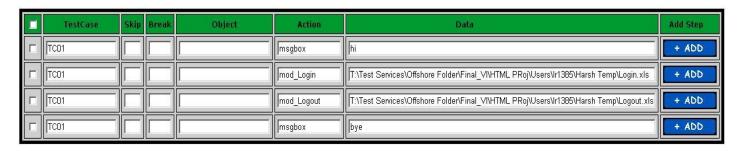
Action: mod Login

Data: T:\Test Services\Offshore Folder\Final\_VI\HTML PRoj\Users\Ir1385\Harsh Temp\Login.xls

Similarly if we want to use Logout File (**Location**: T:\Test Services\Offshore Folder\Final\_VI\HTML PRoj\Users\Ir1385\Harsh Temp\Logout.xls ) than we will write:

Action: mod\_Logout

Data: T:\Test Services\Offshore Folder\Final\_VI\HTML PRoj\Users\Ir1385\Harsh Temp\Logout.xls



#### 4.9.1.4 User Defined Functions

For using function we have a keyword/ prefix called func\_

Similar to mod functionality, for function also we will add "func\_" as the prefix before the function name. Like: func\_FunctionName.

In Data we will write the input parameters for the function

"Parameter1", "Paramter2"

Suppose we want to use a custom function named "FormatDateinMMDDYYYFormat" in our test case then we will write: Action: func\_FormatDateinMMDDYYYFormat



## **4.9.2 Deleting Test Steps**

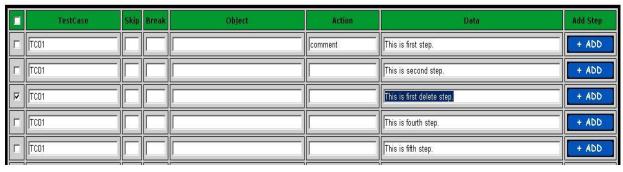
Deleting test steps can be performed on:

- 1. Individual Step
- 2. Multiple random steps
- 3. All the test steps.

User need to click "Delete" button.

## 4.9.2.1 Deleting Single Test Step

Step 1: Mark/Check the checkbox in first column



Step2: Click on "Delete Row" button.

Delete <u>R</u>ow

Step3: Click on "OK" button in the pop-up box.

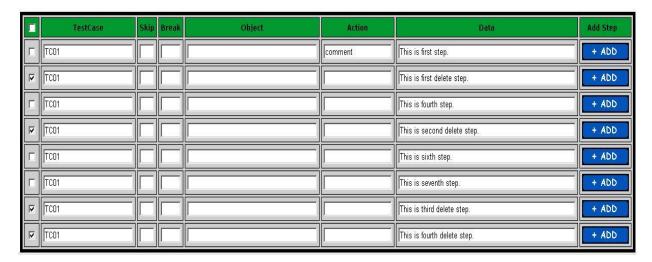


Step4: Step is deleted:

| □ | TestCase | Skip | Break | Object | Action  | Data                 | Add Step |
|---|----------|------|-------|--------|---------|----------------------|----------|
|   | TC01     |      |       |        | comment | This is first step.  | + ADD    |
|   | TC01     |      |       |        |         | This is second step. | + ADD    |
| Г | TC01     |      |       |        |         | This is fourth step. | + ADD    |
| Г | ТС01     |      |       |        |         | This is fifth step.  | + ADD    |

# 4.9.2.2 Deleting multiple steps from Test Case

Step 1: Mark/Check the checkbox in first column against the steps to delete



Step2: Click on "Delete Row" button.

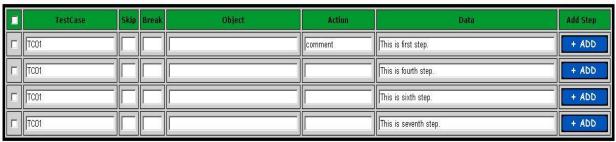
Delete <u>R</u>ow

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Step3: Click on "OK" button in the pop-up box.

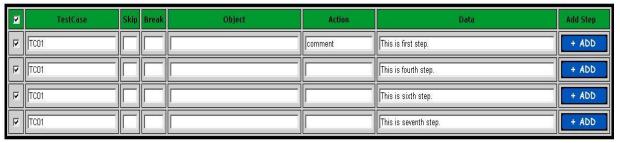


Step4: Mark steps are deleted:



# 4.9.2.3 Deleting all steps from Test Case

Step 1: Mark/Check the checkbox in header row.



Step2: Click on "Delete Row" button.



# Step3: Click on "OK" button in the pop-up box.



Step4: Mark steps are deleted:



# 4.9.3 Saving Test Case

Saving xml can be done in two ways:

- 4. Saving to temp File (Save Script)
- 5. Saving to custom folder (Save As Script)



# 4.9.3.1 Saving to temp File

Click on "Save Script" button to save directly to the temp file which is saved in the temp folder of the logged in user.



# 4.9.3.2 Saving to custom folder

Steps to save the script to custom folder.

Step 1: Click on "SaveAs" button.



Step2: Enter the path to save file. Click on "OK" button.



Step3: Click on "OK" button in the pop-up box.



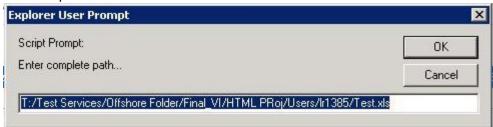
# 4.9.4 Exporting Test Case (In Excel)

Steps to export test script in to excel.

Step 1: Click on "Export To Excel" button.

# Export To Excel

Step 2: Enter the path to save file. Click on "OK" button.



Step3: Wait for pop-up box and click on "OK" button in the pop-up box.



# **4.10 Execute Script Tab**

# 4.10.1 Understanding Execute Script Tab



| Field Name                          | Description   |
|-------------------------------------|---|
| Enter XLS Path                      | This field is optional. If user wants to execute any excel test case he can execute by selecting excel file.  |
| Click here to preview Excel<br>File | Link which gives preview of the selected excel file in "Enter XLS Path" field.                                |
| Enter Test ID                       | Mandatory Field. It will execute the rows having the same value as mentioned in the box. Example: <b>TC01</b> |
| Exit QTP after execution            | Radio Button.  Determines whether to exit QTP or not after execution.   |
| Exit QTP after execution            | Mandatory field. Action Name or "keyword".  |
| Function Library                    | Web List. Select the function libraries that are applicable for the test script execution.                    |
| Last Run Result                     | Shows the result for the last run. Possible values:<br>Fail, Pass, Stopped, Done.                             |
| Select Add-ins                      | Checkboxes. Allows user to select the QTP Add-ins which are applicable for the particular test script.        |

## 4.10.2 Executing Script

Scripts can be executed from utility in two ways:

- 1. Selecting the Excel script.
- 2. Executing the script written from the step generator.

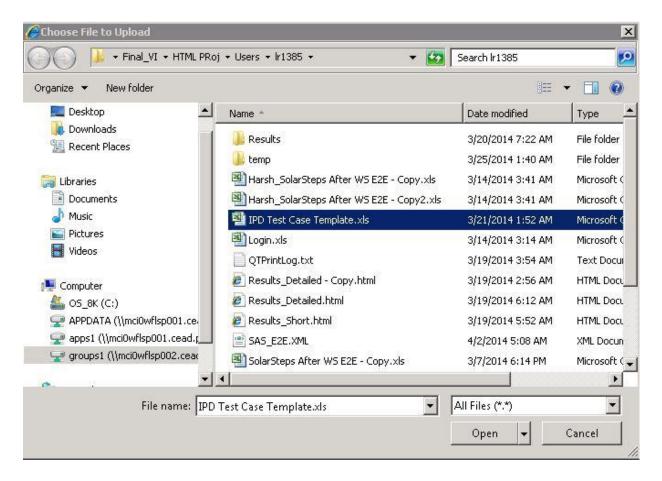
#### Mandatory Fields:

- → Test Case ID
- ⇒ Function Library if applicable.

## 4.10.2.1 Selecting the Excel file

User can select Excel file and can execute the script.

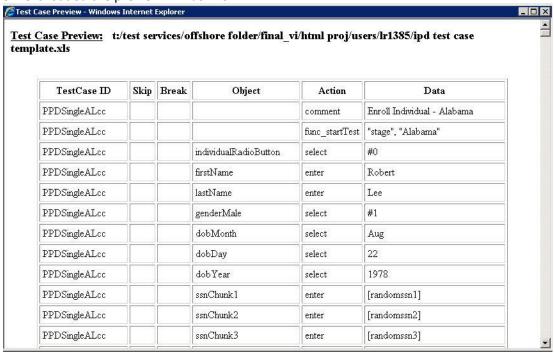
Step 1: Click on "Browse" button and select the excel file.



Step 2: Click on "Click here to preview Excel File" link to cross verify if the selected file is correct or not. NOTE: User might get some warning for "ADO Security" Click on "OK" button.



Once the file is loaded the preview will be like:



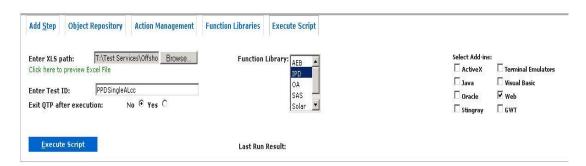
Step 3: Close the preview window and

Enter Test Case ID: Example: **PPDSingleALcc** 

**Select Function Libraries:** 

Example: IPD

Select Add-ins: Example: **Web** 



Step 4: Click on "Execute Script" button.

Wait for QTP to complete the execution.

Step 5: Get the Last Run Result.

Last Run Result: Passed

# 4.10.2.2 Executing after writing script in Utility

User can execute the script which he/she has written in the utility

Step 1: Write test steps using Utility.



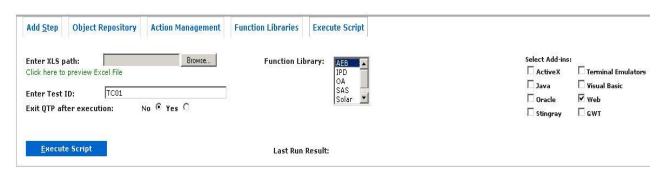
# Step 2: Enter details for:

Enter Test Case ID: Example: **TC01** 

Select Function Libraries:

Example: IPD

Select Add-ins: Example: **Web** 



Step 3: Click on "Execute Script" button.

Wait for QTP to complete the execution.

# Step 4: Get the Last Run Result.

Last Run Result: Passed

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**4.10.3** Analyzing results

User can analyze the results by clicking on the status of the result i.e. "Fail", "Passed", etc. Result will be opened in a new window.

Click on result status:

Last Run Result: Passed

New Window with detailed result:

# **Execution Report**

| Step   | Status |
|--|--------|
| Setting up the object dicitonary.  | Pass   |
| Objects Added.   | Pass   |
| 3/20/2014 6:27:00 AM ExecuteLine , comment, Enroll Individual - Alabama  | Pass   |
| 3/20/2014 6:27:00 AM ExecuteLine, func_startTest, "stage", "Alabama"   | Pass   |
| 3/20/2014 6:27:00 AM Calling custom function: startTest ""stage", "Alabama""   | Pass   |
| 3/20/2014 6:27:34 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebRadioGroup("html id:=gwt-debug-individualRadioButton-input","index:=0"), select, #0 | Pass   |
| 3/20/2014 6:27:34 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebEdit("html id:=gwt-debug-firstName"), enter, Robert                                 | Pass   |
| 3/20/2014 6:27:35 AM ExecuteLine Browser("creationtime:=0"). Page("title:=Individual PPD"). WebEdit("html id:=gwt-debug-lastName"), enter, Lee                                   | Pass   |
| 3/20/2014 6:27:35 AM ExecuteLine Browser("creationtime:=0"). Page("title:=Individual PPD"). WebRadioGroup("html id:=gwt-debug-genderMale-input", "index:=0"), select, #1         | Pass   |
| 3/20/2014 6:27:36 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebList("html id:=gwt-debug-dobMonth"), select, Aug                                    | Pass   |
| 3/20/2014 6:27:37 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebList("html id:=gwt-debug-dobDay"), select, 22                                       | Pass   |
| 3/20/2014 6:27:37 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebList("html id:=gwt-debug-dobYear"), select, 1978                                    | Pass   |
| 3/20/2014 6:27:38 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebEdit("html id:=gwt-debug-ssnChunk1"), enter, [randomssn1]                           | Pass   |
| 3/20/2014 6:27:39 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebEdit("html id:=gwt-debug-ssnChunk2"), enter, [randomssn2]                           | Pass   |
| 3/20/2014 6:27:39 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebEdit("html id:=gwt-debug-ssnChunk3"), enter, [randomssn3]                           | Pass   |
| 3/20/2014 6:27:40 AM ExecuteLine Browser("creationtime:=0").Page("title:=Individual PPD").WebEdit("html id:=gwt-debug-address"), enter, 2010 East Cedar Avenue                   | Pass   |
| 3/20/2014 6:27:41 AM ExecuteLine Browser("creationtime:=0"). Page("title:=Individual PPD"). WebEdit("html id:=gwt-debug-city"), enter, Mobile                                    | Pass   |