**Integrating TestRunner with Selenium UItest**

**Architecture of TestRunner Integration:**

ActionRunner is a class which creates a Runner object and runs the testrunner xml files, technically we need to have only this class to execute all the testrunner xml files, but for the sake of identifying the action types we are creating sub-classes for specific actions ex. BackupRunner.java, RetriveRunner.java

**Steps to create an action for selenium Uitest**

We need to automate the first 3 steps by using maven dependency libraries.

1. **Download the TestRunner from svn and build the project**
2. **Create a TestRunner.jar from the TestRunner classes (from eclipse right click and export as TestRunner.jar)**
3. **Add the TestRunner.jar in lib folder and add to the classpath**
4. **Creating the TestRunner xml file for the test**

Here an example is provided using the backup action from test Runner. This file just do the backup action before that we need to do lot of actions like make sure the agent is installed, create directory with test data, cleaning up the test folders after backup etc.

<?xml version="1.0" encoding="UTF-8"?>

<Runner>

<Actions>

<Action>

<Name>RunBackupNow</Name>

<Class>com.ironmountain.digital.qa.automation.TestRunner.RunBackupAction</Class>

<WaitForComplete>yes</WaitForComplete>

<Destination>BackupTestDir</Destination>

<ExcecutionMethod>sequential</ExcecutionMethod>

<ExcecutionCount>1</ExcecutionCount>

<ExcecutionInterval>0</ExcecutionInterval>

</Action>

</Actions>

<ActionObjects>

<ActionObject>

<Name>BackupTestDir</Name>

<Class>SimpleFileObject</Class>

<Path>C:/Auto-Backup-Dir</Path>

</ActionObject>

</ActionObjects>

</Runner>

Save this file as Backup.xml in the same directory level where the testing testing test suites exists tests\com\imd\connected\webuitest\tests\amws\mat\testrunner\

1. **Create a BackupRunner action class in the library**

Now we are ready with the testrunner xml, but we need a Runner object which can run this xml file. So we need to create a BackupRunner.java which has methods to do the backup actions.

**public** **static** **void** backupData(String actionXml){

run(actionXml);

}

Here the super class method run()

public static void run(actionXml){

runner = getRunner()

runner.setXMLFile(actionXml);

runner.parseXMLFile();

runner.run();

}

1. **Use this action methods in the Test class**

For example the test wants do a backup before verifying the data in account management website. Here the requirement is do a backup and verify the backup date listed in the account management website.

1. Do the backup before test and collect the backup time.

@BeforeMethod (alwaysRun=**true**)

**public** **void** executeBackup(){

Backup.*backupData*(actionXml);

backupDates = DateUtils.*getBackupDateFormat*()+ “ (complete)”;

}

1. Start the selenium test and verify the backup dates, so the test will look like this

@Parameters( {"email", "password"})

@Test(enabled = **true**, groups= {"amws","mat", "editprofile"})

**public** **void** testAvilableBackupDates(String email, String password) **throws** Exception

{

AccountManagementLogin.*login*(email, password);

*viewOrderCdOrDvdsPage*(); *verifyAvailableBackupDates*(backupDates);

AccountManagementLogin.*logout*();

}