Selenium WebDriver阶段六 - (与testlink集成,实现自动化与case管理工具联动)

WebDriver (阶段六)

课程目的:学习调用第三方工具的API,实现与testlink集成。

培训结果:能够熟练掌握testlink公开的api,实现测试用例与脚本结果关联。

课程相关脚本: Practice Eight

作者: Terry QQ:314768474

个人微博: http://weibo.com/alwaysterry

版权所有禁止传播。

课程准备:自己在本机上安装一个xmapp的集成环境

http://yunpan.cn/Q9mmYcpDDv8z2

http://dev.mysql.com/downloads/tools/workbench/

Steps to enable Testlink API via xmlrpc and generate dev key:

1. Open config.inc.php

Search for

/** XML-RPC API availability (disabled by default) */

\$tlCfg->api->enabled = FALSE;

3. Change FALSE to TRUE

3. Change FALSE to TRUE; \$tlCfg->api->enabled = TRUE;

4. Save config.inc.php

- 5. Login to Testlink UI as admin
- 6. Go to 'My Settings'
- 7. Under API interface, click 'Generate new key'
- 8. Copy the key generated
- Substitute your newly generated dewKey in the client program
 Example: client = TestlinkAPIClient(devKey="abc04556463cd813a1ea05caf042d42f")

Demo TestLink:http://demo.testlink.org/latest/index.php?caller=login

admin/admin

http://demo.testlink.org/latest/lib/api/xmlrpc/v1/xmlrpc.php

1)TestLink是一个开源的测试用例管理工具,并可以与mantis,jira等缺陷管理工具关联。 至于怎么使用该工具,有不了解的同学可以去网上学习一下,这里我就介绍一下,testlink的一般工作流程:

->创建测试用例

1) 创建测试项目 ->创建测试计划 ->创建build name

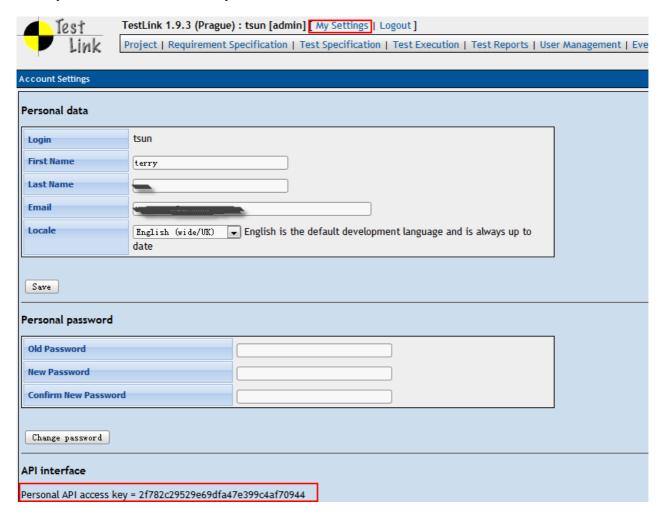
->创建platform

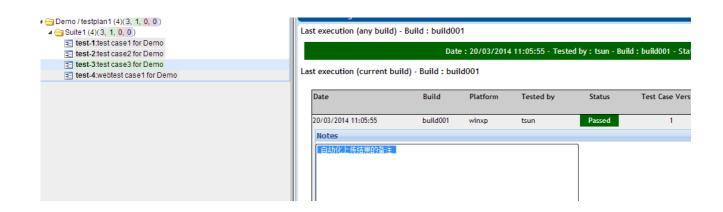
2)选择项目,选择测试计划,选择build name和platform,分配测试用例

<mark>ස</mark>	XAMPP Control Panel v3.2.1						
Modules Service	Module	PID(s)	Port(s)	Actions			
	Apache	1944 7584	80, 443	Stop	Admin	Config	
	MySQL	164	3306	Stop	Admin	Config	
	FileZilla	$\overline{}$		Start	Admin	Config	
	Mercury	•		Start	Admin	Config	
	Tomcat			Start	Admin	Config	
21:54:21	[main]	Contr					
21:55:41	[Apache]	Atten .	Tornett ib Albas 166	; app			
21:55:44	[Apache]	Statu	Terry:开启此两项	ınning			
21:59:06	[Tomcat]	Atten		app			
21:59:08	[mysql]	Attem		арр			
21:59:08	[mysql]	Status	change detected: r	unning			
21:59:11	[Tomcat]	Status change detected: running					
21:59:31	[Tomcat]	Attempting to stop Tomcat					
21:59:32 2)肿 水比 多	「Tomcat] 少生田巳 \ T	「Tomcat】 Status change detected: stopped 法国民人Tactlink型再投会的关键字:http://localboct/tectlink/tectlink-193//c					

2)脚本执行结果导入Testlink需要指定的关键字: http://localhost/testlink/testlink-1.9.3/login.php

a,xmlrpc.php-我们需要知道该文件所在的url一般为http://ipaddress:port/testlink/lib/api/xmlrpc.phpb,devkey - 开发钥匙,哪里可以得到?该key实际就是你的用户名,用于标明测试用例是谁执行的





上传附件这里需要注意的是executionid是表attachments的对应的fk_id的每次的运行叠加: try {
 byte[] byteArray = FileUtils.readFileToByteArray(attachmentFile
 fileContent = new String(Base64.encodeBase64(byteArray));
} catch (10Exception = {
 e.printStackTrace(System.err);
 }
} assignment_status
assignment_types
attachments attachments
builds
field_design_values
field_execution_value
field_nese_values
field_nese_values
field_testplan_design_values
field_testplan_design_values
field_testplan_design_values
field_testplan_design_values
field_testplan_design_values
field_testplan_design_values
field_testplan_design_values
tustplan_testplan_design_values
tustplan_test System.exit(-1): 🙌 | Edit: 🏑 🌦 🏪 | File: 🚚 🛶 | title file_name 185 104283 119 120 121 122 123 124 125 126 1276 128 130 131 132 133 134 135 136 137 138 186 104283 executions ScreenshotFo.. Autor:temy 187 ad.txt 188 104284 executions 189 1010 executions ScreenshotFo Autortemy System.out.println("Attachment uploaded"); 190 104288 executions a1 ad.txt 104289 executions Autor terry 1 public static void main(String args[]){
 //the following settings are required;
 String url = "http://172.28.50.123188/testlink/lib/api/xmlrpc.php";
 String dewKey = "2f782.2952969dfa47e399c4af70944";
 String drojectName = "Demo";
 String tl = "testplan1";
 String buildName = "build001";
 String platform = "winxp"; NULL NULL Action Output APIObject testlinkapi = new APIObject(url,devKey,projectName,tl,buildN testlinkapi.getAPI(); testlinkapi.getTestCases(); testlinkapi.executeTestCase("test case2 for Demo",1,"tested by Terry11 testlinkapi.executeTestCase("test case2 for Demo",1,"tested by Terry11 testlinkapi.executeTestCase("test case2 for Demo",1,"tested by Terry11 testlinkapi.exes.getFullExternalId()); System.out.println(testlinkapi.tcase.getFullExternalId()); //testlinkapi.tcase.getExecutionOrder() 8 14:05:00 SELECT * FROM testlink.execution_bugs LIMI... 0 row(s) returned int(10) UN PK AI int(10) UN smallint(5) UN varchar(45) text 9 14:05:05 SELECT * FROM testlink.attachments LIMIT 0,... 169 row(s) returned 10 14:07:12 SELECT * FROM testlink.attachments LIMIT 0,... 171 row(s) returned 141 142 143 144 145 146 147 11 14:07:56 SELECT * FROM testlink attachments LIMIT 0,... 172 row(s) returned 12 14:10:18 SELECT * FROM testlink.attachments LIMIT 0,... 173 row(s) returned 13 14:11:18 SELECT * FROM testlink.attachments LIMIT 0,... 174 row(s) returned 14 14:14:18 SELECT * FROM testlink.attachments LIMIT 0,... 175 row(s) returned oiect Info

Last execution (current build) - Build: build001



c,projectName-项目名 d,planName-计划名 e,buildname

d,测试用例名

在我们对测试用例进行脚本化的时候,以上六个关键字是必须的。我们可以设计一个类专门调用testlink api和取得测试用例,并可以调用执行方法传入测试结果:

以下的类就是一个传入测试名实现结果导入在PracticeEight中有:

```
public class APIObject {
       lic class APIObject {
   private static Logger Logger = Logger.getLogger(APIObject.class);
   private static TestLinkAPI api = null;
   private String planName;
   private String projectName;
   private String devkey;
   private TestCase[] tcs;
   private TestPlan tl;
   private TestPlan tl;
   private TestPlan tl;
   private TestPlan tl;
   private String buldName;
   private String buldTame;
   private String platformName;
      public APIObject(String url,String devKey,String projectName,String planName,String buildName,String platformName){
               this.url = url;
this.devKey = devKey;
this.projectName = projectName;
this.projectName = planName;
this.buildName = buildName;
this.platformName = platformName;
       public TestLinkAPI getAPI() {
   if (null == api) {
     try {
        api = new TestLinkAPI(new URL(url), devKey);
     } catch (TestLinkAPIException te) {
        Logger.error(te.getMessage(), te);
     } catch (MalformedURLException mue) {
        Logger.error(mue.getMessage(), mue);
   }
                 }
return api;
         public void getTestCases(){
                  this.planName.=planName;
this.projectName.= projectName;
this.projectName.= projectName;
tl = qpi, getTestPlanSyMame(planName,projectName);
tcs=qpi.getTestCasesForTestPlan(tl.getId(), null, null,null,null,null,null,ExecutionType.MANUAL,null,null);
                 /*for(TestCase tc:tcs){
   System.out.println(tc.toString());
}*/
       }
        public void executeTestCase(String testcasename,int status){
                 Integer planID = tl.getId();
Integer tcID = 0;
for(TestCase tcitcs){
String casename = tc.getName();
if(casename.equals(testcasename)
tcID = tc.getId();
break:
                 }
                 switch(status){
    case 1:
        opi.reportTCResult(tcID, null,planID, ExecutionStatus.PASSED, null, buildName," 書物化上传海集的基定", null, null, null, null, null, null, null);
        break;
    case 2:
        api.reportTCResult(tcID, null,planID, ExecutionStatus.FAILED, null, buildName," 音物化上传海集的基定", null, null, null, platformName, null, null);
        break;
    case 3:
    case 3:
                             Case 3: api.reportTCResult(tcID, null,planID, ExecutionStatus. BLOCKED, null, buildName, Benk上传接集的条件", null, null, null, null, platformName, null, null); break;
                                      System.out.println("please check your status");
```

```
public void uploadAttchment(String picturePath)
    File attachmentFile = new File(picturePath);
    String fileContent = null;
    try {
            byte[] byteArray = FileUtils.readFileToByteArray(attachmentFile);
             fileContent = new String(Base64.encodeBase64(byteArray));
    } catch (IOException e) {
            e.printStackTrace( System.err );
            System.exit(-1);
    Attachment attachment = api.uploadExecutionAttachment(
            104289, //executionid
             "ScreenshotFor this Test case-", //title
            "In this screen the attendant is defining the customer plan", //description
            "Autor:terry1", //fileName
"text/xml", //fileType
            fileContent); //content
    System.out.println("Attachment uploaded");
}
```

我们再看看脚本中怎么样调用该类中的一些方法:

```
@BeforeClass
public void startFirefox(){
    url = "http://172.28.50.123:88/testlink/lib/api/xmlrpc.php";
    devKey = "2f782c29529e69dfa47e399c4af70944";
    projectName = "Demo";
    tl = "testplan1";
    buildName = "build001";
    platform = "winxp";
```

```
@Test
public void login126DotCom(){
    caseName = "test case3 for Demo";
    LoginPage loginpage = new LoginPage(ffwb);
    HomePage homepage = new HomePage(ffwb);
    loginpage.navigate(data.getValue("url"));
    loginpage.setUserName(data.getValue("username")
    loginpage.setPassWord(data.getValue("password"));
    loginpage.login();
    Assert.assertEquals(homepage.hometab.isDisplayed(), false);
}

@AfterMethod
public void import2TestLink ITestResult result testlinkapi.getAPI();
    testlinkapi.getTestCases();
    testlinkapi.executeTestCases(caseName result.getStatus());
}
```

当我们运行时就可以看到我们的结果就导入到testlink中了。

Date: 07/10/2013 17:44:55 - Tested by: tsun - Build: build001 - Status: Failed

Last execution (current build) - Build: build001



相关文档: http://testlinkjavaapi.sourceforge.net/sample3.html

https://bitnami.com/sign_in