Appium-阶段一 - appium框架搭建及环境准备

1)选择并安装Appium

我们首先要去下载appium,解压后安装,可能需要安装.net 4.5如果是这个版本的那就需要强制安装的。之后打开的话就会有第2张图一样的画面

https://hithucket.org/appium/appium.app/downloads Downloads [c] Appium.app Terry:当前使用 ACTIONS Downloads Tags Branches 2014-08-04版本 **⊥** Clone ŔΙ. Downloads Compare 77.7 MB Download repository **= C** Fork 2014-08-04 AppiumForWindows.zip 48.9 MB AppiumForWindows-1.2.0.1.zip 48.9 MB astro03 1229 2014-08-04 **III** Overview AppiumForWindows-1.2.0.0.zip 48.9 MB astro03 3339 Source appium.dmg 41.0 MB 1064 2014-07-03 2014-07-03 appium-1.2.0.dmg 41.0 MB dcuellar 5848 Branches AppiumForWindows-1.1.0.0.zip 2014-05-30 ⚠ Pull requests 2014-05-28 appium-1.1.0.dmg 35.5 MB dcuellar 5304 Downloads AppiumForWindows-1.0.0.3.zip 42.7 MB 41088 dcuellar 2014 05 05



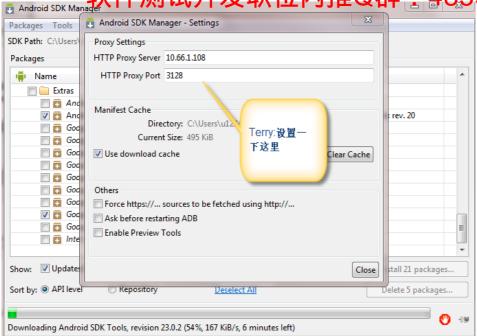
另一种如果你的pc上已经有了eclipse那么可以不需要再下载一个ADT (其实这个ADT就是eclipse+ADT plugins) 你可以去eclipse marketplace

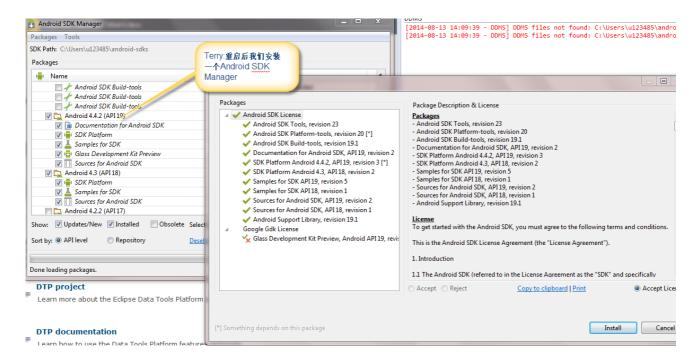


下载后一般的在cmd输入路劲是%userprofile%\android-sdks既可以打开默认安装的路劲了(你也可以自己变更改路劲在eclipse->windows->preference->Android "SDK Location")

打开SDK Manager

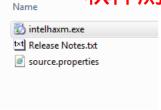
然后tools->proxy设置你的vpn能连接到google的代理否则你将不能下载需要的packages





这里最好再下载一个intel HAXM

Name	API	Rev.	Status	
Extras				
🔲 📆 Android Support Repository		6	☐ Not installed	
🔲 🔂 Android Support Library		19.1	📭 Update available: rev. 20	
Google Play services for Fit Preview		1	■ Not installed	
Google Play services for Froyo		12	☐ Not installed	
🔲 🔂 Google Play services		19	☐ Not installed	
🔲 🔂 Google Repository		11	☐ Not installed	
🔲 📆 Google Play APK Expansion Library		3	■ Not installed	
🔲 🔂 Google Play Billing Library		5	Not installed	
🔲 📆 Google Play Licensing Library		2	☐ Not installed	
🔲 🕫 Google USB Driver		10	Not installed	
🕅 📻 Google Web Driver		2	Not installed	
Intel x86 Emulator Accelerator (HAXM installer)		4	🔯 Installed	



解决国内访问Google服务器的困难:

1.启动 Android SDK Manager;

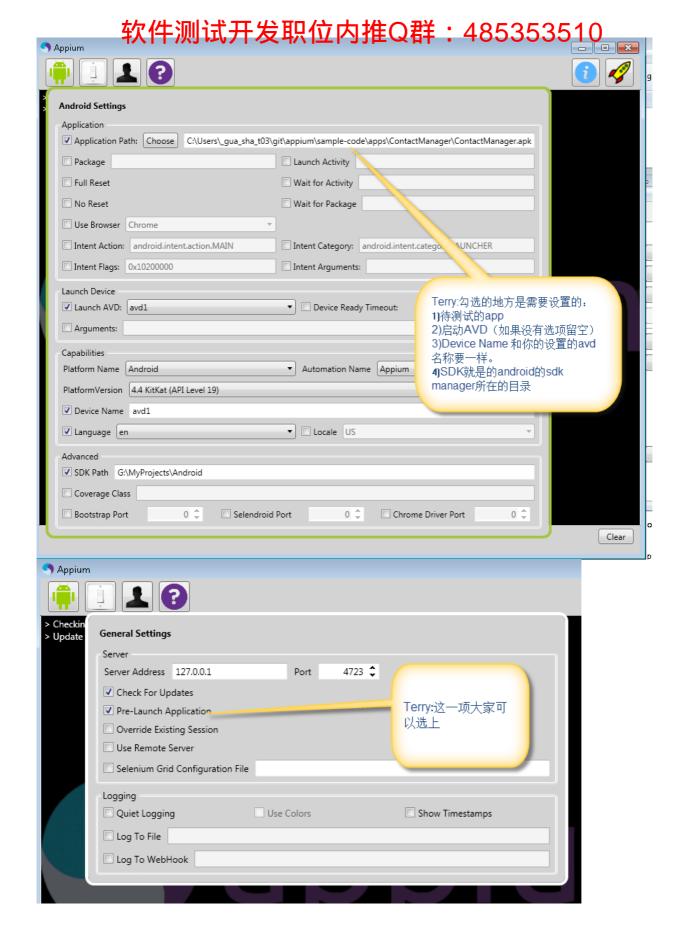
2.打开主界面,依次选择「Tools」、「Options...」,弹出『Android SDK Manager - Settings』窗口;

3.在『Android SDK Manager - Settings』窗口中,在『HTTP Proxy Server』和『HTTP Proxy Port』輸入框内填入 mirrors.neusoft.edu.cn和80,并且选中「Force https://... sources to be fetched using http://...』复选框;4.设置完成后单击「Close」按 钮关闭『Android SDK Manager - Settings』窗口返回到主界面;

5.依次选择「Packages」、「Reload」。



2)设置appium settings 设置好了后我们就可以用appium去连接该AVD了,我们看一下appium怎么去连接android的模拟器的



好了后就可以点击那个"火箭"了之后你会发现会有很多debug log日志可以看到,然后就会在你的android模拟器中显示安装的程序。 点击那个感叹号icon按钮



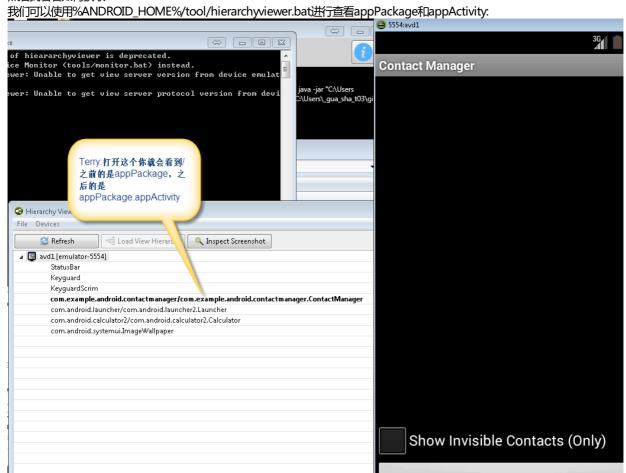
3)接下来我们试试怎么样去运行一个这样的addContact测试用例,请看脚本:

```
File classpathRoot = new File(System.getProperty("user.dir")):
    File appDir = new File(classpathRoot, "../../apps/ContactManager");
File app = new File(appDir, "ContactManager.apk");
     Desired(apabilities capabilities = new Desired(apabilities(); capabilities.set(apability("device","Android");
     capabilities.setCapability(CapabilityType.BROWSER_NAME, ""); capabilities.setCapability(CapabilityType.VERSION, "4.2");
     capabilities.setCapability(CapabilityType.PLATFORM, "MAC");
     capabilities.setCapability("app", app.getAbsolutePath());
capabilities.setCapability("app-package", "com.example.android.contact anager");
capabilities.setCapability("app-activity", ".ContactManager");
     driver = new SwipeableWebDriver(new URL("http://127.0.0.1:4723/wd/hub"), apabilities);
@AfterMethod
public void tearDown() throws Exception {
                                                                                               According to your
     driver.quit();
                                                                                               apk path.
public void addContact(){
     WebElement el = driver.findElement(By.name("Add Contact"));
     List<WebElement> textFieldsList = driver.findElements(By.tagWome("textfield"));
textFieldsList.get(0).sendKeys("Some Name");
     textFieldsList.get(2).sendKeys("Some@example.com");
     driver.findElement(By.name("Save")).click();
public class SwipeableWebDriver extends RemoteWebDriver implements HasTouchScreen {
     private RemoteTouchScreen touch;
     public SwipeableWebDriver(URL remoteAddress, Capabilities desiredCapabilities) {
          super(remoteAddress, desiredCapabilities);
          touch = new RemoteTouchScreen(getExecuteMethod());
```

然后你会看到你的程序会在模拟器上运行。

appActivity:你要启动的Android 应用对应的Activity名称

然后我看看如何获取:



4)我们接下来做一个其他app的测试,我们使用内置的app->Calculator的一个计算器来试验。

软件测试 开发	支职位内推Q群:4853535
Android Settings	
Application	
Application Path: Choose C:\Users_gua_sha_ti	03\git\appium\sample-code\apps\ContactManager\ContactManager.apk
☑ Package com.android.calculator2	☑ Launch Activity com.android.calculator2.Calculator
Full Reset	☐ Wait for Activity
☐ No Reset	☐ Wait for Package
Use Browser Chrome	v
☐ Intent Action: android.intent.action.MAIN	☐ Intent Category: android.intent.category.LAUNCHER
☐ Intent Flags: 0x10200000	☐ Intent Arguments:
Launch Device	
✓ Launch AVD: avd1	▼ □ Device Ready Timeout: 5 🗘 s
Arguments:	
1	Terry:如果你的
	ANDROID_HOME已经设置好 了的话可以不用选择此项。 ▼
	注意你的package,activity.
✓ Device Name avd1	
✓ Language en	▼
Advanced SDK Path	
Coverage Class	
	roid Port 0 🗘 🗀 Chrome Driver Port 0 🗘
E Selendr	out of Combine Diver For
General Settings	
Server	
Server Address 172.28.57.49 Port	4723 🗘
Check For Updates	
 □ Pre-Launch Application □ Override Existing Session 	Terry:如果是远程机
Use Remote Server	器的话,这里需要设
Selenium Grid Configuration File	置一下你的远程 IPAdress
Logging	
Quiet Logging Use Colors	Show Timestamps
Log To File	
Log To WebHook	

点击运行后我们就可以运行如下的代码了实现1+2=的功能测试。

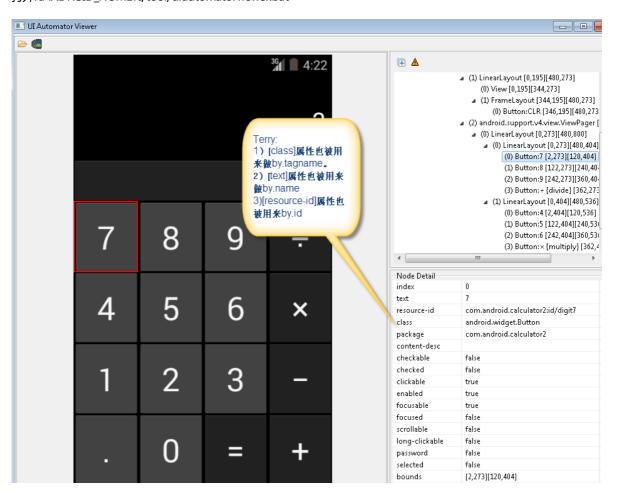
```
public class TestAp
     private WebDriver driver
     @BeforeMethod
     public void setUp() throws Exception {
   DesiredCapabilities capabilities = new DesiredCapabilities();
          capabilities.setCapability("platformName", "Android");
capabilities.setCapability("deviceName", "Samsung");
driver = new RemoteWebDriver(new URL("http://172.28.57.49:4723/wd/hub"), capabilities);
     @Test
     public void testCalculator(){
                driver.findElement(By.name("DELETE")).click();
                                                                                             Terry: 注意为什么加个
          }catch(Exception e){
                driver.findElement(By.name("CLR")).click();
                                                                                             异常处理呢? 好好想
                                                                                             想各位
          driver.findElement(By.name("1")).click();
          driver.findElement(By.name("+")).click();
driver.findElement(By.name("2")).click();
driver.findElement(By.name("=")).click();
     @AfterMethod
     public void tearDown() throws Exception {
          driver.quit();
}
```

http://my.oschina.net/u/147181/blog/338449

Xpath的使用:

我们开一下xpath的怎么在appium中使用。首先我们要抓取到元素的,才能获得它的属性:

打开%ANDROID_HOME%/tool/uiautomatorviewer.bat



```
@Test
public void testCalculator(){

try{
    driver.findElement(By.name("DELETE")).click();
}catch(Exception e){
    driver.findElement(By.name("CLR")).click();
}

// driver.findElement(By.name("1")).click();
// driver.findElement(By.name("+")).click();
// driver.findElement(By.name("2")).click();
// driver.findElement(By.name("2")).click();
// driver.findElement(By.name("=")).click();
driver.findElement(By.xpath("//android.widget.Button[@text='1']")).click();
driver.findElement(By.xpath("//android.widget.Button[@text='+']")).click();
driver.findElement(By.xpath("//android.widget.Button[@text='2']")).click();
driver.findElement(By.xpath("//android.widget.Button[@text='=']")).click();
System.out.println(driver.findElement(By.xpath("//android.widget.EditText")).getText());
}
```