

Part II

1. Which parts of the code you provided would need to be adapted to run the same tests in an Android phone, using the same browser, in the tool you chose?

Added DesiredCapabilities property used to launch Chrome on mobile device (used an android emulator)

@BeforeClass

```
public void setUp() throws MalformedURLException {
    basePage = new BasePage(Constants.BROWSER_NAME);
    careerPage = new CareerPage(Constants.BROWSER_NAME);
    DesiredCapabilities capabilities=DesiredCapabilities.android();
    capabilities.setCapability(MobileCapabilityType.PLATFORM_NAME, "Android");
    capabilities.setCapability(MobileCapabilityType.PLATFORM_VERSION, "11.0");
    capabilities.setCapability(MobileCapabilityType.BROWSER_NAME, "Chrome");
    capabilities.setCapability(MobileCapabilityType.DEVICE_NAME, "appium emulator");
    URL url= new URL("http://127.0.0.1:4723/wd/hub");
    driver = new AndroidDriver(url, capabilities);
    driver.get(Constants.BASE_URL);
}
```

2. How could we run these tests in a physical android phone connected to your laptop? Does the laptop need any extra software/hardware to run them properly?

- Connect device to the computer using USB cable
- Configure Device with Developer Mode option enabled.
- Open command prompt and run the command: **adb devices**
- Check the details of the device as shown and device Id is shown. (**WKZLMJLB7L8TR8SW**)

```
DesiredCapabilities capabilities=DesiredCapabilities.android();
capabilities.setCapability(MobileCapabilityType.PLATFORM_NAME, "Android");
capabilities.setCapability(MobileCapabilityType.PLATFORM_VERSION, "11.0");
capabilities.setCapability(MobileCapabilityType.BROWSER_NAME, "Chrome");
capabilities.setCapability(MobileCapabilityType.DEVICE_NAME, "WKZLMJLB7L8TR8SW");
```

3. What would be the main changes if the website was now part of a hybrid android App?

To switch between native and hybrid apps we use Context in Appium.

First, get a list of all the context handles and check whether there is any context that contains WebView (or find specific content) Switch driver to that content. The following simple code switches to hybrid app.

```
Set<String> allContext = driver.getContextHandles();
for (String context : allContext) {
    if (context.contains("WEBVIEW"))
        driver.context(context);
}
```

4. And if it was a native app?

Get the list of context containing Nativet_App and set it to driver.

```
Set<String> allContext = driver.getContextHandles();
for (String context : allContext) {
    if (context.contains("NATIVE_APP"))
        driver.context(context);
}
```