

## AUTOMATIZACION II / MOBILE

### EJERCICIO 1

- I. Crear un documento PDF con capturas de pantalla realizando paso a paso la automatización de la creación actualización y borrado de una tarea de la aplicación When.do

Solución. -

- a. En la clase *Android* se realiza la definición de características principales de la aplicación mobile *WhenDo*

```
11 public class Android implements IDevice{
12     @Override
13     public AppiumDriver create() {
14         DesiredCapabilities capabilities = new DesiredCapabilities();
15         capabilities.setCapability( capabilityName: "deviceName", value: "V9");
16         capabilities.setCapability( capabilityName: "platformVersion", value: "9");
17         // Paquetes de la aplicacion movile whendo
18         capabilities.setCapability( capabilityName: "appPackage", value: "com.vrproductiveapps.whendo");
19         // Actividad de la aplicacion movile whendo
20         capabilities.setCapability( capabilityName: "appActivity", value: "com.vrproductiveapps.whendo.ui.HomeActivity");
21         capabilities.setCapability( capabilityName: "platformName", value: "Android");
22         AppiumDriver driver= null;
23         try {
24             driver = new AndroidDriver(new URL( spec: "http://127.0.0.1:4723/wd/hub"),capabilities);
25         } catch (MalformedURLException e) {
26             throw new RuntimeException(e);
27         }
28         driver.manage().timeouts().implicitlyWait( time: 20, TimeUnit.SECONDS);
29         return driver;
30     }
31 }
```

- b. En la clase *CreateTaskWhenDoTest* ubicado en el paquete *cleanTest*, se desarrolla la automatización de la creación actualización y borrado de una tarea de la aplicación When.do

1. Definición de Variables

```
19 // Definicion de variables
20 String tittle = "Mobile Exercise";
21 String note = "This is the execution of the mobile exercise by xsoto;";
22 String update = " UPDATE";
23 String messageErrorMainScreen = "Error: the note was not create";
24 String messageErrorTaskScreen = "Error: the task was not create";
25 String messageErrorDeleteTask = "Error: La tarea no fue eliminada";
26 String alertTitle = "Confirm Delete";
27 String messageTaskAdd = "No tasks added";
28 String messageErrorListTask = "Error al listar las tareas";
```

2. Creación

```
32 //Registro de la tarea
33 mainScreen.addButton.click();
34 createNoteForm.tittleTxtBox.setText(tittle);
35 createNoteForm.noteTxtBox.setText(note);
36 createNoteForm.saveButtonBox.click();
```

3. Verificación de la existencia de la tarea

```
38 //Verificacion de la existencia de la tarea
39 Assertions.assertTrue(mainScreen.isNoteDisplayed(tittle), messageErrorMainScreen);
40 Session.getInstnce().getDriver().manage().timeouts().implicitlyWait( time: 20, TimeUnit.SECONDS);
```

4. Actualización de la tarea

```

42 //Actualizacion de la tarea
43 mainScreen.labelClicked(tittle);
44 Session.getInstance().getDriver().manage().timeouts().implicitlyWait( time: 10, TimeUnit.SECONDS);
45 createNoteForm.tittleTextBox.setText(tittle + update);
46 createNoteForm.saveButtonBox.click();
47 Assertions.assertTrue(mainScreen.isNoteDisplayed( tittle: tittle + update),messageErrorTaskScreen);
48 Session.getInstance().getDriver().manage().timeouts().implicitlyWait( time: 20, TimeUnit.SECONDS);

```

- Selección de la tarea a ser eliminada

```

50 //Seleccion de la tarea a ser eliminada
51 mainScreen.labelClicked( tittle: tittle + update);
52 Session.getInstance().getDriver().manage().timeouts().implicitlyWait( time: 10, TimeUnit.SECONDS);
53 createNoteForm.deleteButtonBox.click();
54 Session.getInstance().getDriver().manage().timeouts().implicitlyWait( time: 20, TimeUnit.SECONDS);

```

- Verificación del mensaje de confirmación de la tarea a ser eliminada

```

56 //Verificacion del mensaje de confirmacion de la tarea a ser eliminada
57 Assertions.assertEquals(alertTitle,createNoteForm.alertLabel.getText(),messageErrorDeleteTask);
58 Session.getInstance().getDriver().manage().timeouts().implicitlyWait( time: 20, TimeUnit.SECONDS);

```

- Eliminación de la tarea

```

60 //Eliminacion de la tarea
61 createNoteForm.deleteAlertButtonBox.click();
62 Session.getInstance().getDriver().manage().timeouts().implicitlyWait( time: 20, TimeUnit.SECONDS);

```

- Verificación de la tarea eliminada

```

64 //Verificacion de la tarea eliminada
65 Assertions.assertEquals(messageTaskAdd,mainScreen.noTaskLabel.getText(),messageErrorListTask);

```

- Resultados después de la ejecución del test.

```

Run: CreateTaskWhenDoTest.verifyCreateNewForm (1) x
>> Tests passed: 1 of 1 test - 1 min 6 sec

Test Results 1 min 6 sec
Starting Gradle Daemon...
Gradle Daemon started in 9 s 45 ms

> Task :compileJava NO-SOURCE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE
> Task :compileTestJava
> Task :processTestResources NO-SOURCE
> Task :testClasses
> Task :test
oct. 16, 2022 9:48:49 P. M. io.appium.java_client.remote.AppiumCommandExecutor$1 lambda$0
INFO: Detected dialect: W3C
BUILD SUCCESSFUL in 2m 12s
2 actionable tasks: 2 executed
21:49:43: Execution finished ':test --tests "cleanTest.CreateTaskWhenDoTest.verifyCreateNewForm"'.

```

- Ejecución el Cloud

```

public AppiumDriver create() {
    DesiredCapabilities caps = new DesiredCapabilities();
    // Set your access credentials
    caps.setCapability( capabilityName: "browserstack.user", value: "ximenasoto_HLM9FC");
    caps.setCapability( capabilityName: "browserstack.key", value: "ZUCPUKy7CoLREsk6kkR");
    // Set URL of the application under test
    caps.setCapability( capabilityName: "app", value: "bs://5a998875000e78cbed5bc07722dc25f090769efb");
    // Specify device and os_version for testing
    caps.setCapability( capabilityName: "device", value: "Google Pixel 3");
    caps.setCapability( capabilityName: "os_version", value: "9.0");
    // Set other BrowserStack capabilities
    caps.setCapability( capabilityName: "project", value: "AUTOMATIZACION MOVILE XSOTO(EJERCICIO_1)");
    caps.setCapability( capabilityName: "build", value: "1.1");
    caps.setCapability( capabilityName: "name", value: "whenDo");
    // Initialise the remote WebDriver using BrowserStack remote URL
    // and desired capabilities defined above
    AndroidDriver<AndroidElement> driver = null;
    try {
        driver = new AndroidDriver<AndroidElement>(
            new URL( spec: "http://hub.browserstack.com/wd/hub"), caps);
    } catch (MalformedURLException e) {
        e.printStackTrace();
    }
    return driver;
}

```

11. Visualización en <http://hub.browserstack.com/wd/hub>

<div> <div> DASHBOARD </div> <div> Search for Projects, Builds or Sessions </div> <div> ACCESS KEY </div> <div> UPLOAD APP </div> <div> PARALLEL THREADS: Running 0/5 Queued 0/5 </div> </div>																													
<div> <div> All Builds </div> <div> 1 SESSIONS a few secs ago AUTOMATIZACION MOVILE XSOTO EJERCICIO_1 </div> </div>																													
<div> <div> Build whenDo AUTOMATIZACION MOVILE XSOTO EJERCICIO_1 </div> <table> <tr> <td>OS</td><td>Android 9.0</td><td>Status</td><td>Unmarked</td><td>Local Testing</td><td>Off</td></tr> <tr> <td>Device</td><td>Google Pixel 3</td><td>REST API</td><td>UNMARKED</td><td>Protocol</td><td>MJSONWP</td></tr> <tr> <td>Duration</td><td>38s</td><td>Started At</td><td>17 Oct 2022 03:32 UTC</td><td>Public Link</td><td>Copy Link</td></tr> <tr> <td>User</td><td>Ximena Soto</td><td>Session ID</td><td>8b0b41c2...</td><td colspan="2"></td></tr> </table> </div>						OS	Android 9.0	Status	Unmarked	Local Testing	Off	Device	Google Pixel 3	REST API	UNMARKED	Protocol	MJSONWP	Duration	38s	Started At	17 Oct 2022 03:32 UTC	Public Link	Copy Link	User	Ximena Soto	Session ID	8b0b41c2...		
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12. Capturas del proceso del Test

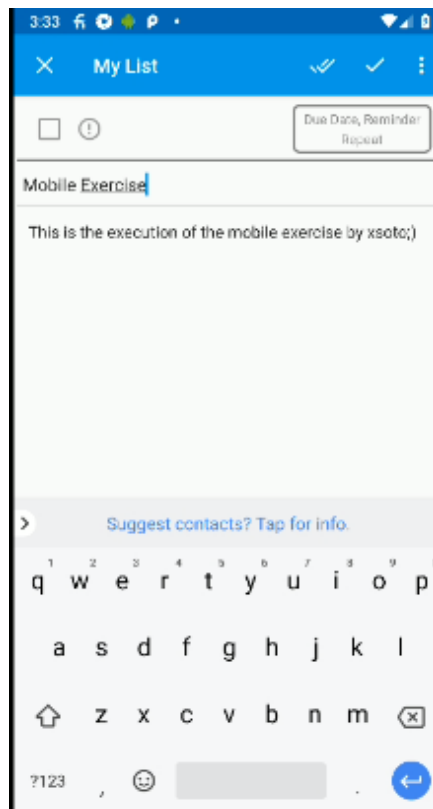
- Pantalla principal mobile



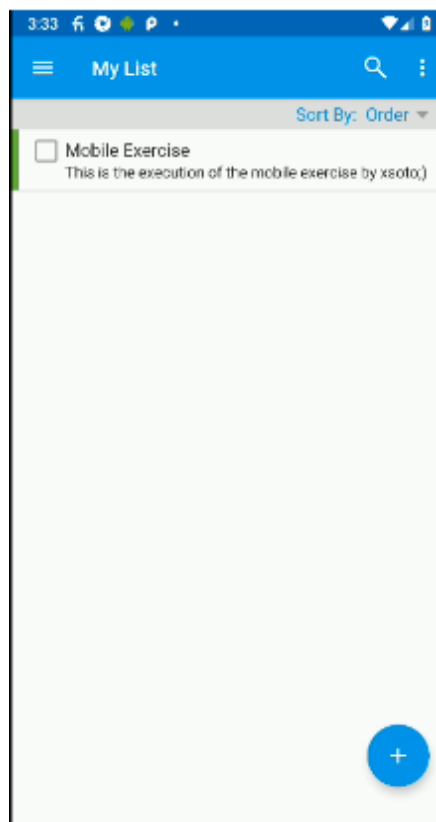
Inicio de la Aplicación WhenDo



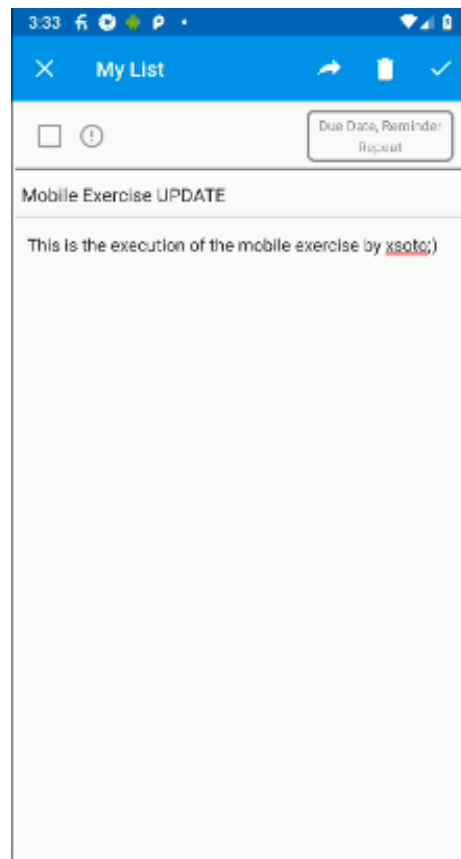
Creación de una tarea



Listado de la tarea creada



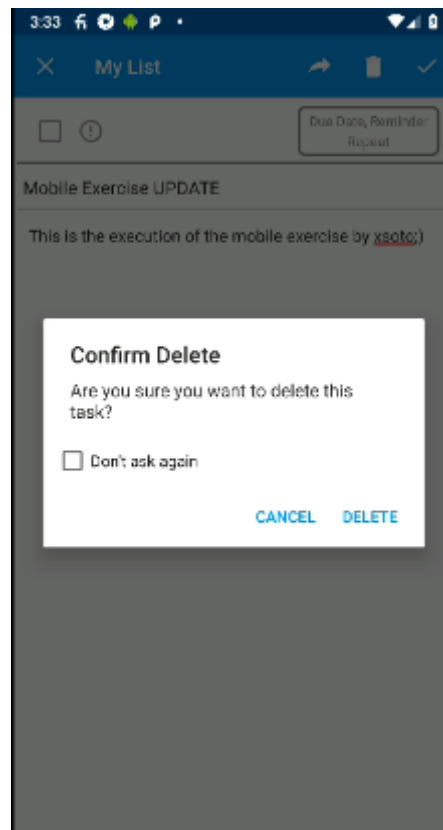
Edición de la tarea creada



Listado de la tarea actualizada



Mensaje de confirmación de eliminación de la tarea



Verificación de la tarea eliminada



## II. Subir el código a un repositorio de versionador de código

El código fuente se encuentra versionado en la siguiente dirección

- <https://github.com/xsoto-developer/whenDo>