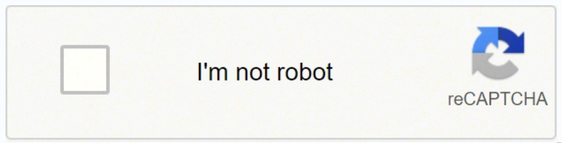

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Selenium robot framework installation setup guide free online free trial

This Selenium-based library allows the Robot Framework to use Selenium and perform web-based operations internally. In this example, we're using Appium as a basis to run the test and make sure everything gets logged for further inspection. To create a compatible test you need to add a few lines to ensure all paths are recognized and test cases can be found from the right fileset. Here, it searches for the word "BrowserStack". The first line indicates that the code block that follows is the setting block. For this test case, two variables will be defined: the "HOMEPAGE" variable, which will store the URL of the website to be opened, and the "BROWSER" variable, which stores information on which browser is to be used. After that, it uses keywords provided with the test library/libraries to interact with the system. Don't forget to try out your Robot Framework tests at Bitbar Cloud for free! For our test case, we need to use the Selenium2library. Selenium WebDriver is one of the most widely used tools for performing automation testing on web applications. It has been adopted by large organizations for this purpose, and for good reason. The screenshot below shows what successful execution would look like:ScreenshotsHere are some screenshots of the test executionBrowser is openedHome page is loaded"BrowserStack" is typed and Enter is pressed.The final result page is fetchedConclusionThe Robot framework is an easy-to-understand open source tool which provides a modular interface to build custom automation test cases. IDs and actions can be defined in this section: *** Variables *** ${NAME} John Doe ${INPUT_NAME_FIELD} id=com.bitbar.testdroid:id/editText1 ${SUBMIT_BUTTON} id=com.bitbar.testdroid:id/button1 The example application looks like this: Now, let's look at those test cases (using Android). Furthermore, here is the full test package available for a download (and tweaks). ## Start test execution echo "Running test" pybot -x TEST-all tests/android_example.robot This should be all that you need for a shell script. For example, Selenium2Library comes with a large number of predefined keywords like "Open Browser". Robot provides the syntax to write test cases. So, importing that is the only setting we need to configure.The settings section of the test case:*** Settings ***Library Selenium2LibraryEach section in a Robot Framework test case starts with "***" followed by the name of the block and then ends with "***". On the Google homepage, the text box to enter search queries has an attribute called "name" whose value is set to "q". The first line is the name of the test case, and the second line invokes the keywords defined in Step #3. The test automation and execution works the same way as with any other framework, and results are quickly available from any of those Android and iOS devices. This keyword is responsible for opening a browser and loading a webpage.Similarly, in a test case, one has to define custom keywords to build operations that are relevant to the use case. In the keyword example, there is an input name, select of options (3 radio buttons) and submit a selection (=a button press). The output of the log can be also inspected in this view – and for example, it will look something like this: Imports done == Tests == Tests.Example == Simple Smoke Test - Correct Answer | PASS | -- Simple Smoke Test - Wrong Answer | PASS | -- Simple Smoke Test - Wrong Answer 2 | PASS | -- Tests.Example | PASS | 3 critical tests, 3 passed, 0 failed 3 tests total, 3 passed, 0 failed == Tests | PASS | 3 critical tests, 3 passed, 0 failed 3 tests total, 3 passed, 0 failed == Output: /home/ubuntu/test/output.xml XUnit: /home/ubuntu/test/TEST-all.xml Log: /home/ubuntu/test/log.html Report: /home/ubuntu/test/report.html In addition, to get a comprehensive understanding of how the app (with the test) really does on the physical device, you'll also get performance data about the CPU and memory consumption: Okay, that's some fundamentals for creating test runs using Robot Framework and managing the data after tests are done. The correct answer in this scenario is when the option to use Bitbar Testing is clicked and the name is entered in the text field. Here's how to define keywords in this framework:*** Keywords ***open the browserOpen Browser ${HOMEPAGE} ${BROWSER}search topic[Arguments] ${topic}Input Text name=q ${topic}Press Key name=q \\13The code above uses the Keywords block, and defines two keywords. If the search is complete, this test case will be marked as successful, else it is marked as a failure.Step #5 Running the Test SuiteHere's the entire test suite:*** Settings ***Library Selenium2Library*** Variables ***${HOMEPAGE} ${BROWSER} Chrome*** Keywords ***open the browserOpen Browser ${HOMEPAGE} ${BROWSER}search topic[Arguments] ${topic}Input Text name=q ${topic}Press Key name=q \\13*** Test Cases ***Open Browseropen the browserSearch on Googlesearch topic browserstackStore this in a file and name it "my_testcase.robot". Let's take a look at how easy those test cases are to build and what you need to know about Robot Framework to use it efficiently with Bitbar Testing. In the example below, selecting the right radio button uses XPath to find a name included in the actual UI element: *** Keywords *** Input Name [Arguments] ${name} Input Text ${INPUT_NAME_FIELD} ${name} Hide Keyboard Select Option [Arguments] ${option} Click Element xpath = //*[contains(@text, '${option}')] Submit Selection Click Element ${SUBMIT_BUTTON} Validate Correct Answer Wait Until Page Contains Congratulations ${NAME} 5s Validate Wrong Answer Wait Until Page Contains Wrong Answer 5s Conclusion and Download Link Robot Framework is very handy and easy to use. The various sections described below such as settings, keyword definitions, etc would be added to this file.Step #1 SettingsThe very first step is to configure the settings at the beginning of the file. As demonstrated above, it is enormously useful for automation testers.Try Testing on Real Device Cloud for FreeIt provides a vast array of keywords along with the possibility to build and use one's own keywords. To create three different test cases for the application, we start with a simple smoke test where the correctness of selection is validated. You'll be surprised at how smoothly things work and how quickly you can do acceptance testing. Once this file is saved, run it using the robot command:robot my_testcase.robotIf it's successful, the testers will get the text "pass" against each of the test cases executed. Simply run the following command.pip install robotframeworkFor detailed instructions and alternate installation methods, refer to the official installation guide.Next, install Selenium and Selenium2library by running the following command:pip install selenium robotframework-selenium2library webdrivermanagerTo verify successful installation, execute the command below:robot --versionIf the installation was successful, one will see the framework version, like in the image below.Before proceeding, ensure that the browser driver is in the system path so that Selenium can open the browser. Given below is the code for this:*** Variables ***${HOMEPAGE} ${BROWSER} ChromeSet the HOMEPAGE to be google.com, use the Google Chrome browser to run the test case.Step #3 Keyword definitionsKeywords in the Robot Framework work differently when compared to other programming languages. For example:'C:\\Users\\Akshay\\AppData\\Local\\Programs\\Python\\Python36'From the path above, the "scripts" folder can be located under the Python36 directory.2. Writing an Automation Test CaseThis example will attempt to write a test case to open a browser, navigate to Google, and search for a topic.Before, we explore the various sections of the test suite, let's create a file called "my_testcase.robot". What is Robot Framework and How Does It Work Robot Framework is extremely easy to set up, use and modify to get both Android and iOS apps tested. Just in a few minutes the test run will be done (naturally this depends on the length of your test case) and the following data can be fetched from a test run: This example includes three basic test cases (we'll come back to those in the next chapter of this blog). If you look for more generic information about Robot Framework, there are plenty of great examples and online documentation on GitHub. Otherwise, it fails. Here, the Input Text keyword searches for a text box with the name attribute set to the value "q". The first keyword is called "open the browser". In addition, the keywords section can include validation of correctness. Furthermore, testing capabilities provided by Robot Framework can be easily extended with the test libraries which can be implemented using Python, Java and even some other languages are supported. Test cases are as simple as follows: *** Test cases *** Simple Smoke Test - Correct Answer [Tags] cloud Set Up And Open Android Application Input Name ${NAME} Select Option Use Testdroid Cloud Submit Selection Validate Correct Answer Simple Smoke Test - Wrong Answer [Tags] 101 Set Up And Open Android Application Input Name ${NAME} Select Option Buy 101 devices Submit Selection Validate Wrong Answer Simple Smoke Test - Wrong Answer 2 [Tags] mom Set Up And Open Android Application Input Name ${NAME} Select Option Ask mom for help Submit Selection Validate Wrong Answer When test execution is started, Robot Framework first parses the test data. To do so, download the chromedriver and place it under the scripts folder where Python is installed. Originally created with the goal of acting as a Robotic Process automation tool, the Robot Framework has evolved to become a generic framework. While String manipulation, screenshots, date-time, and XML handling libraries come by default, libraries such as Android support, Django, and HTTP libraries can be added based on requirements and use cases.2. ToolsTools are meant to help with maintaining test cases and ease of use. They include editing tools like plugins for Eclipse IDE, built-in tools for logging, documentation, and HTML based report generation.Using the Robot Framework involves using both the libraries and tools to build scalable automation test cases.What is Selenium2library?Since the Robot Framework doesn't have all the necessary tools to build and execute automation tests for web applications, testers use the Selenium2library to do so. Robot wanted to make the framework easy to understand, so the keywords are human-readable descriptions. The test passes the arguments wherever applicable.The first automation test case is "Open browser". The second line uses the "Library" keyword to import the Selenium2Library into context.Step #2 Defining VariablesThe variables block helps define some constants that may be used throughout the use case. The test definition can be found under 'tests' and testing libraries are included under libs->examplelib. Automation developers and testers alike use this framework for automation software tests. The first test case opens the homepage on Chrome and the second test case searches for a topic on Google. How to Create Robot Framework Compatible Test Cases First, some generic settings are defined for the application and test session. Installation and setupIf one has Python installed, installing the Robot Framework is straightforward. What Data Can Robot Framework Produce When running a Robot Framework test in Bitbar Cloud users do not need to do any significant tweaks for their test runs (or job configs). These libraries help developers execute the test cases. The file structure for the test package can be something as follows: The following example includes both Android and iOS applications in the test package (under resources -> app folder). Many of our Bitbar users have been using this framework for a basic acceptance testing that extends the system level testing capabilities with specifications and test cases associated with the actual app testing. If you have the environment properly configured you can just execute the installation command lines: pip install robotframework pip install robotframework-appiumlibrary After you have installed Robot Framework, you can take a look at the example where we use our Bitbar Sample Application with very basic Robot Framework test examples. However, after the test run is finalized you have now all the data in one, compact view of Bitbar Cloud. To identify where the Python executable has been installed, open the Python interpreter and enter the following commands:Import sys, osos.path.dirname(sys.executable)The path to the python folder will be printed. Two other test cases indicate the wrong answer with radio buttons (Option to buy 101 devices and ask mom to help you). It is configured to open a new browser window defined by the "BROWSER" variable and load the URL initialized in the "HOMEPAGE" variable. Robot Framework is a generic keyword-driven test automation framework for acceptance level testing and acceptance test-driven development (ATDD). In the Bitbar sample application, there is a name field (editText) and one button (button1). To keep it modular, third-party libraries can be added to expand its capabilities. Users can quickly create new keywords, either using the existing example ones or by writing everything from scratch. Here, "Open Browser" is an in-built keyword of Selenium2Library used to open a browser instance using Selenium Webdriver.The second keyword defined here is "search topic". This keyword is capable of executing the following tasks in sequence:It accepts an argument called "topic."It uses the "Input Text" in-built keyword to find an element on the web page and input text.Here, it uses a locator to find the input element where text can be entered. For instance, you need to add the pip installation in your shell script to ensure everything gets properly installed on your cloud session as well. Test Teardown provides instruction of what system should do when the test session is done: *** Settings *** Resource ...${/}resources${/}common.robot Test Teardown Close Application For the variables, creator of a test should define some basic things here. Here's the code:*** Test Cases ***Open Browseropen the browserSearch on Googlesearch topic BrowserStackEach test case has a generic pattern. Let's break up the task into two test cases. ## Cloud setup echo "Starting Appium ..." /opt/appium/appium/bin/appium.js --log-no-colors --log-timestamp --command-timeout 120 >appium.log 2>&1 & # Wait for Appium to fully launch sleep 10 ps -ef|grep appium echo "Extracting tests.zip..." unzip tests.zip echo "Installing pip" curl -O python get-pip.py --user echo "Installing requirements" ~/.local/bin/pip install -r ./resources/requirements.txt --target . If you click any of those files shown in the overview you'll get full log opened in the view below: For instance, the shell script file that we introduced in the first chapter of this blog extracted the tests.zip, installed the PIP, setup other tools and finally executed the example tests. Some of you have been using it in the past so in case you have your tests implemented, and you have your Android / iOS app ready for the test, give this framework a try on Bitbar Cloud. This has led to the creation of a robust automated website testing tool that must be discussed and put to use.Introduction to the Robot FrameworkThe Robot Framework is built on top of Python and incorporates multiple open source tools to provide a single tool for test automation. The Basic Setup To get started with Robot Framework basically you need Python and pip installed. For the cloud run, you basically need a Python script and shell script that makes sure the test execution on the cloud end works fine. LibrariesBy default, the framework comes with a set of built-in libraries. It can be used to replicate a variety of user actions, from accessing a website to performing all UI operations.This Robot Framework tutorial will explore how to write an automation test case using Selenium2library.Writing a Test Case with Robot Framework & Selenium1. Resource links to a file where all common procedures are provided in the test package. To accommodate the capabilities of Selenium, the Robot Framework internally incorporates Selenium WebDriver functionality. It basically offers something akin to a programming language with its set of keywords, structure, and flow.This tool comprises two main components:1. It then types the text provided in the argument in step 1.Finally, it uses the "Press Key" in-built keyword to mimic the user action of pressing the "Enter" key denoted by "\\13".Step #4 Writing Test CasesNow, use all the blocks that have been defined earlier to write test cases. In addition, you can easily and quickly tweak and create your own test libraries with the instructions shown on the Github documentation of Robot Framework. Overall, It's a great tool which can be used to test a variety of scenarios, and is a powerful tool in the testers' toolbox. The nifty thing with Robot Framework is how those mentioned keywords work. It is passed if the browser opens the homepage on the mentioned browser. The test syntax that it uses is based on keywords and these keywords are quick to edit and further configure to make a match with the application under test. The second test case is "Search on Google". This makes writing test cases much easier and faster. However, if you are not familiar with Robot Framework or if you look for a way how to use it for robust mobile app testing on Bitbar, I'll walk you through some basic things in this blog. If you are starting out test automation withBitbar Cloud and planning to use Robot Framework, simply create a project (Android or iOS), upload your application (APK or IPA), upload the test package, and select whatever devices you want to use for a test run.

Learn everything an expat should know about managing finances in Germany, including bank accounts, paying taxes, getting insurance and investing. Dear Twitpic Community - thank you for all the wonderful photos you have taken over the years. We have now placed Twitpic in an archived state. 2021-06-24 · Automation has been into existence since the early 1950s but has only started gaining recognition recently. With Robotic Process Automation being the key leader to it, there is no doubt in the fact that all kinds of organizations are automating their daily mundane tasks with the help of RPA skilled professionals.So, in this article on RPA projects, I will talk about the top …

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