BDD Testing Approach for Maersk chosen website

Objective: To Automate the countdown functionality of the egg timer website ( <http://e.ggtimer.com/>)

The website has a countdown functionality. The countdown function should use the period specified on the home page as the start time and count down every second.

You should create an automated test to verify that the countdown actually happens and that the

remaining time decreases in one-second increments.

Step 1: Please visit the site url and make sure the page load is complete; then enter 25 seconds and click on the Go button to start the counter.

Step 2: Wait for the counter to start counting down from the period specified in the home page and verify that the countdown is actually happening every second and that the remaining time decreases in one-second increments.

Pseudo

1. Navigate to <http://e.ggtimer.com>
2. Verify that the page loads correctly
3. Verify that the homepage has a time counter
4. Enter 25 seconds
5. Click GO button
6. Display().get(). Initial time t1 = double x;
7. Wait
8. Display().get(). Time t2 = double y;
9. Verify that t2 (time displayed) < t1 (initial time displayed )
10. Get().time = double x;
11. Wait 1 sec
12. Get().time = double y;
13. Verify that y – x = 1

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@tag

Feature: Eggtimer counter

@tag1

Scenario: Timer Countdown # C:/Users/b50/Webdriverwork/CucumberSetup/src/Cucumber/features/MaerskTimer.feature:25

**BDD**

Given I am on the eggtimer homepage

And I enter a number

When I click the button

And wait for a second

Then the timer should decrease by onesec

**RESULT**

1 Scenarios (1 passed)

5 Steps (5 passed)

0m57.805s

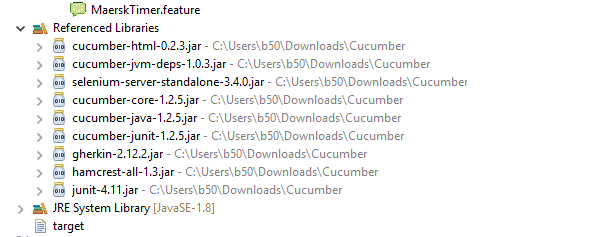
**ACTUAL JAVA CODE**

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| **package** Cucumber.features;  **import** org.openqa.selenium.By;  **import** org.openqa.selenium.WebDriver;  **import** org.openqa.selenium.WebElement;  **import** org.openqa.selenium.firefox.FirefoxDriver;  **import** org.openqa.selenium.remote.DesiredCapabilities;  **import** org.openqa.selenium.support.ui.ExpectedConditions;  **import** org.openqa.selenium.support.ui.WebDriverWait;  **import** cucumber.api.java.en.Given;  **import** cucumber.api.java.en.Then;  **import** cucumber.api.java.en.When;  **public** **class** MaerskTimerSteps {    WebDriver driver = **null**;  @Given("^I am on the eggtimer homepage$")  **public** **void** i\_am\_on\_the\_eggtimer\_homepage() **throws** Throwable {  // Write code here that turns the phrase above into concrete actions  //System.setProperty("webdriver.gecko.driver", "C:\\Users\\geckodriver-v0.9.0-win64\\geckodriver.exe");  System.*setProperty*("webdriver.gecko.driver", "C:\\Users\\b50\\Downloads\\geckodriver-v0.24.0-win32\\geckodriver.exe");  //System.setProperty("webdriver.firefox.marionette","C:\\Users\\geckodriver-v0.9.0-win64\\geckodriver.exe");  DesiredCapabilities capabilities = DesiredCapabilities.*firefox*();  capabilities.setCapability("marionette", **true**);  driver = **new** FirefoxDriver(capabilities);  driver.navigate().to("http://e.ggtimer.com/ ");  System.***out***.println(driver.getCurrentUrl());  **if** (driver.getCurrentUrl().contentEquals("http://e.ggtimer.com/"))    {  System.***out***.println("All correct");  }  **else**{  System.***out***.println("Test failed");  }  System.***out***.println("test1");  }  @When("^I enter a number$")  **public** **void** i\_enter\_a\_number() **throws** Throwable {    WebDriverWait wait = **new** WebDriverWait(driver,20);  WebElement start\_a\_timer;  start\_a\_timer = wait.until(ExpectedConditions.*visibilityOfElementLocated*(By.*xpath*("//input[@value='5 minutes']")));  start\_a\_timer.sendKeys("");        System.***out***.println("test2");  }  @When("^I click the button$")  **public** **void** i\_click\_the\_button() **throws** Throwable {  // Write code here that turns the phrase above into concrete actions    driver.findElement(By.*xpath*("//input[@value='5 minutes']")).clear();    driver.findElement(By.*xpath*("//input[@value='5 minutes']")).sendKeys("25");    driver.findElement(By.*xpath*("//input[@type='image']")).click();        System.***out***.println("test3");  }  @When("^wait for a second$")  **public** **void** wait\_for\_a\_second() **throws** Throwable {    Thread.*sleep*(1000);    **if** (driver.getCurrentUrl().contentEquals("https://e.ggtimer.com/25"))    {  System.***out***.println("On the right page");  }  **else**{  System.***out***.println("Test failed");  }    System.***out***.println("test4 passed");  }  @Then("^the timer should decrease by onesec$")  **public** **void** the\_timer\_should\_decrease\_by\_onesec() **throws** Throwable {      **if** (driver.getPageSource().contains("24 seconds")){  System.***out***.println("decreases by one sec");  }    **else**{    System.***out***.println("cant' verify");  }        System.***out***.println("test5 passed");        driver.close();  }      } |

**RUN with this CLASS**

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| package Cucumber.features;  import org.junit.runner.RunWith;  import cucumber.api.CucumberOptions;  import cucumber.api.junit.Cucumber;  @RunWith(Cucumber.class)  @CucumberOptions(  plugin = {"pretty", "json:target/"},  features={"src"},  glue={"src"}  )  public class RunCucumber {    } |

BUILD WITH FOLLOWING JARS



HIGHLIGHTED TEST CODE

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| --- |
| @Then("^the timer should decrease by onesec$")  **public** **void** the\_timer\_should\_decrease\_by\_onesec() **throws** Throwable {      **if** (driver.getPageSource().contains("24 seconds")){  System.***out***.println("decreases by one sec");  }    **else**{    System.***out***.println("cant' verify");  } |

This section was highlighted because this is where the decrement test actually takes place and the source code was viewed in real time at the progress Text area and seen to decrease until it ran out.

The “Thread.sleep” method was used in order not to associate the waiting time to any web element

Scenario Counter timer

Given: that I am on the homepage

When: 25s is entered

And: the button is clicked

And: wait 1s

Then: the counter should display 24