

**9 TIPS**



**FOR WRITING**

**Good Test Cases**

**IN Selenium**



# Use Descriptive Names



```
1 WebElement e = driver.findElement(By.id("username"));  
2
```



```
1 WebElement usernameField = driver.findElement(By.id("username"));
```



# Follow Consistent Naming Convention



```
1 WebElement UserName = driver.findElement(By.id("username"));
2 WebElement Pass_Word = driver.findElement(By.id("password"));
```



```
1 WebElement usernameField = driver.findElement(By.id("username"));
2 WebElement passwordField = driver.findElement(By.id("password"));
```



## Avoid duplication



```
1 driver.findElement(By.id("username")).sendKeys("john");
2 driver.findElement(By.id("password")).sendKeys("password");
3 driver.findElement(By.id("loginButton")).click();
```



```
1 public void enterCredentialsAndLogin(String username, String password) {
2     driver.findElement(By.id("username")).sendKeys(username);
3     driver.findElement(By.id("password")).sendKeys(password);
4     driver.findElement(By.id("loginButton")).click();
5 }
6
7 // Usage
8 enterCredentialsAndLogin("john", "password");
```



# Avoid hardcoding values



```
1 driver.get("https://www.example.com");  
2
```



```
1 String baseUrl = "https://www.example.com";  
2 driver.get(baseUrl);
```



## Selenium Tip

# Use meaningful Assertion



```
1 Assert.assertTrue(driver.getTitle().contains("Page Title"));
2
```



```
1 String expectedTitle = "Example Page";
2 String actualTitle = driver.getTitle();
3 Assert.assertEquals(actualTitle, expectedTitle, "Page title mismatch");
```

# Keep Test Steps Clear



```
1 driver.findElement(By.id("username")).sendKeys("john");  
2 driver.findElement(By.id("loginButton")).click();  
3 String welcomeMessage = driver.findElement(By.xpath("//div[contains(text(),'Welcome')]")).getText();
```



```
1 WebElement usernameField = driver.findElement(By.id("username"));  
2 usernameField.sendKeys("john");  
3  
4 WebElement loginButton = driver.findElement(By.id("loginButton"));  
5 loginButton.click();  
6  
7 WebElement welcomeMessage = driver.findElement(By.xpath("//div[contains(text(),'Welcome')]"));  
8 String actualWelcomeMessage = welcomeMessage.getText();  
9 Assert.assertTrue(actualWelcomeMessage.contains("Welcome"), "Welcome message not displayed");
```



# Separate TestData



```
1 driver.findElement(By.id("username")).sendKeys("john");
2 driver.findElement(By.id("password")).sendKeys("password");
3 driver.findElement(By.id("loginButton")).click();
```



```
1 @Test
2 @Parameters({"username", "password"})
3 public void loginTest(String username, String password) {
4     driver.findElement(By.id("username"))
5         .sendKeys(username);
6     driver.findElement(By.id("password"))
7         .sendKeys(password);
8     driver.findElement(By.id("loginButton"))
9         .click();
10}
11
12// TestNG XML
13<suite name="Login Suite">
14    <test name="Login Test">
15        <parameters>
16            <parameter name="username" value="john" />
17            <parameter name="password" value="password" />
18        </parameters>
19        <classes>
20            <class name="com.example.LoginTest" />
21        </classes>
22    </test>
23</suite>
```





## Selenium Tip

# Keep Testcase short & Focused



```
1 @Test
2 public void complexRegistrationTest() {
3     // ... Steps for registration, login, and payment ...
4 }
```



```
1 @Test
2 public void registrationTest() {
3     // ... Steps for registration ...
4 }
5
6 @Test
7 public void loginTest() {
8     // ... Steps for login ...
9 }
10
11 @Test
12 public void paymentTest() {
13     // ... Steps for payment ...
14 }
```

# Document Testcases

```
1 /**  
2  * Test case to verify successful login with valid credentials.  
3  */  
4 @Test  
5 public void successfulLoginTest() {  
6     // Steps to enter valid credentials and perform login  
7     // Assertions to verify successful login  
8 }
```

Include **comments** or **documentation** to explain the **purpose** of the **test case**

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**NETWORK IF YOU**  
**ENJOYED IT!**



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