



**Department of Computer Science and Engineering
(IoT, Cybersecurity with Blockchain Technology)**
B.Tech. Sem: VII Subject: Software Testing & Quality Assurance

Experiment 6

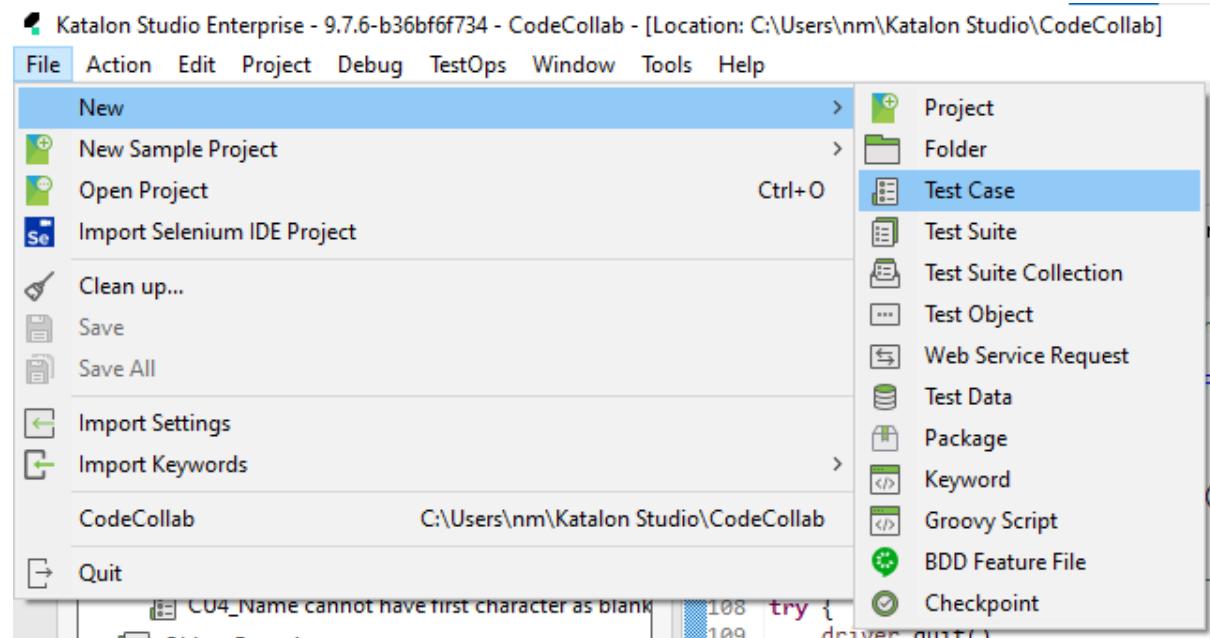
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Aim: - Preparing Test Suite and Report Generation for the test cases.

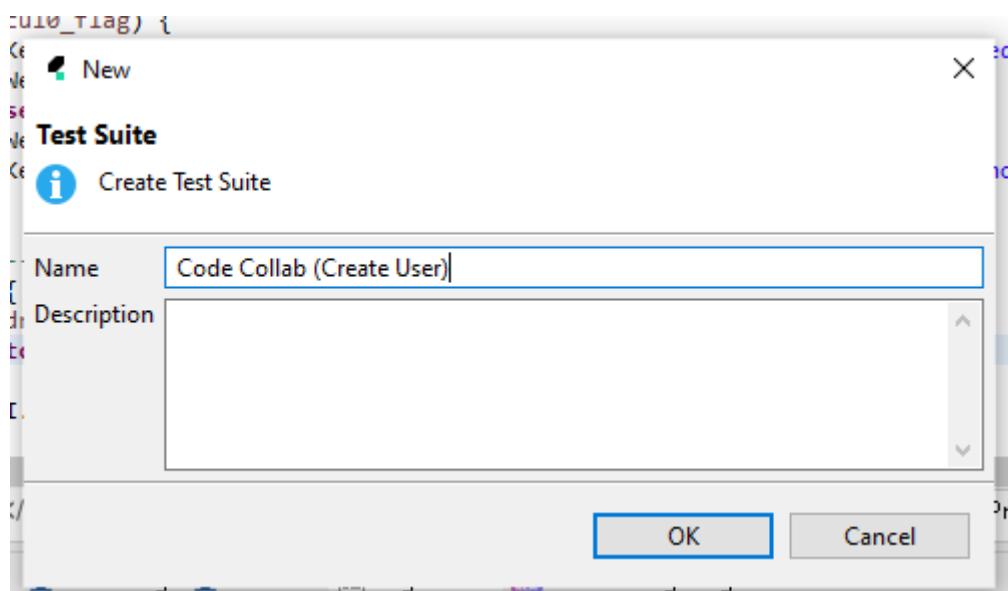
Steps:

- 1) Now we will create test suite which will have these test cases as:

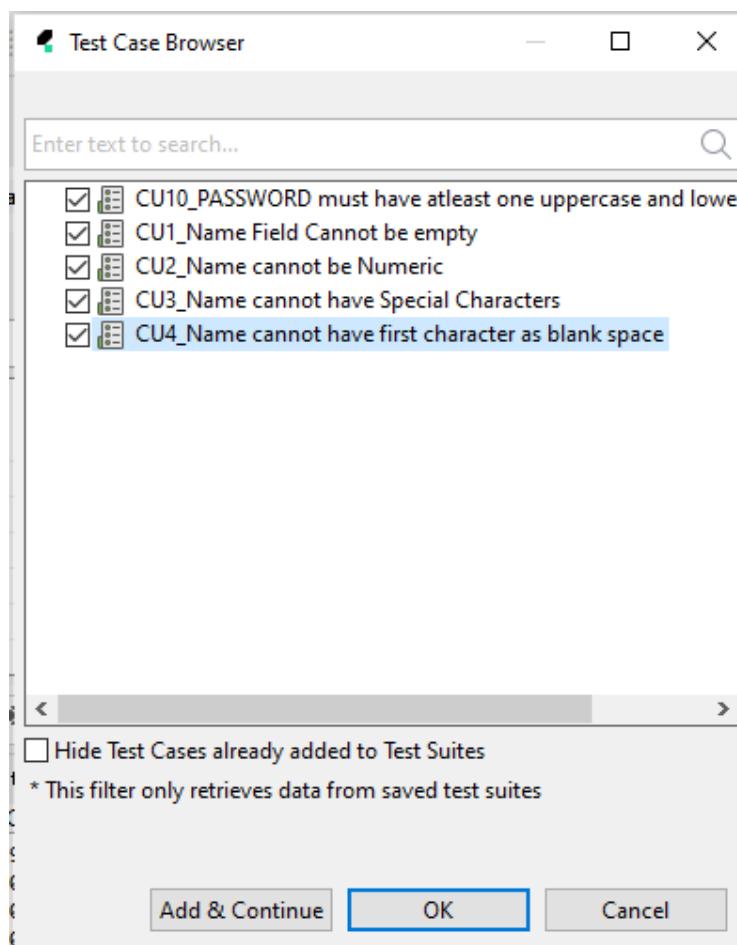




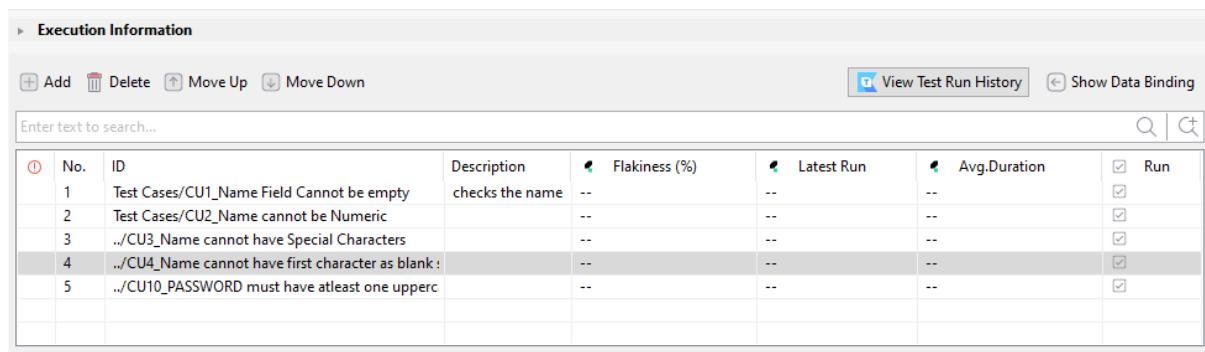
- 2) Give name to your test suite and click on OK



- 3) Then click on the add button to add test cases in this suite. We will see the list of test cases in the project. We will select test cases and click on OK

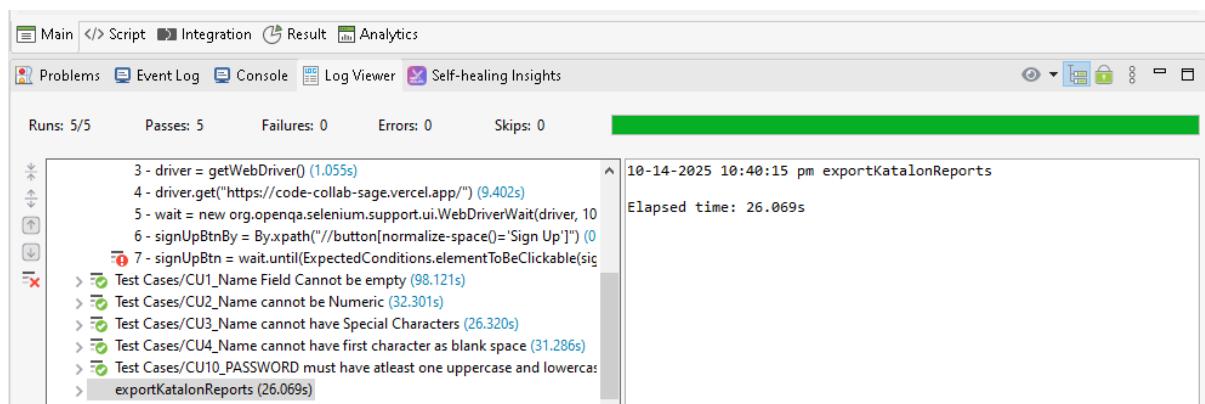


- 4) Once all test cases are added, we can run the test suite. Here we have the choice of running all test cases or any one or two.



No.	ID	Description	Flakiness (%)	Latest Run	Avg.Duration	Run
1	Test Cases/CU1_Name Field Cannot be empty	checks the name	--	--	--	<input checked="" type="checkbox"/>
2	Test Cases/CU2_Name cannot be Numeric		--	--	--	<input checked="" type="checkbox"/>
3/CU3_Name cannot have Special Characters		--	--	--	<input checked="" type="checkbox"/>
4/CU4_Name cannot have first character as blank :		--	--	--	<input checked="" type="checkbox"/>
5/CU10_PASSWORD must have atleast one uppercase and lowercase		--	--	--	<input checked="" type="checkbox"/>

- 5) If everything is correct then we will get message as suite passed and simultaneously report is generated and exported to katalon



Runs: 5/5 Passes: 5 Failures: 0 Errors: 0 Skips: 0

```

3 - driver = getWebDriver() (1.055s)
4 - driver.get("https://code-collab-sage.vercel.app/") (9.402s)
5 - wait = new org.openqa.selenium.support.ui.WebDriverWait(driver, 10
6 - signUpBtnBy = By.xpath("//button[normalize-space()='Sign Up']") (0
7 - signUpBtn = wait.until(ExpectedConditions.elementToBeClickable(sig
Test Cases/CU1_Name Field Cannot be empty (98.121s)
Test Cases/CU2_Name cannot be Numeric (32.301s)
Test Cases/CU3_Name cannot have Special Characters (26.320s)
Test Cases/CU4_Name cannot have first character as blank space (31.286s)
Test Cases/CU10_PASSWORD must have atleast one uppercase and lowercase (26.069s)
exportKatalonReports (26.069s)

```

10-14-2025 10:40:15 pm exportKatalonReports
Elapsed time: 26.069s

- 6) The number of times you run suite, you will get report so choose recent one , right click, choose open containing folder

 keyes	14-10-2025 22:38	File folder
 20251014_223354.csv	14-10-2025 22:40	Microsoft Excel C... 18 KB
 20251014_223354.html	14-10-2025 22:40	HTML Source File 356 KB
 1760461738311.png	14-10-2025 22:38	PNG File 21 KB
 1760461764455.png	14-10-2025 22:39	PNG File 22 KB
 1760461792247.png	14-10-2025 22:39	PNG File 21 KB
 1760461811496.png	14-10-2025 22:40	PNG File 23 KB
 execution.properties	14-10-2025 22:33	Properties Source ... 3 KB
 execution.uuid	14-10-2025 22:40	UUID File 1 KB
 execution0.log	14-10-2025 22:40	Text Document 258 KB
 JUnit_Report.xml	14-10-2025 22:40	Microsoft Edge H... 30 KB
 testCaseBinding	14-10-2025 22:33	File 1 KB
 tsc_id.txt	14-10-2025 22:40	Text Document 0 KB



- 7) When you open this html, you will see a detailed report along with a screenshot taken after successful execution of the test suite.

Code Collab (Create User) Test Log

Execution Environment

Host name: nm - LAPTOP-3E4TFJOT
Local OS: Windows 10 64bit
Katalon version: 9.7.6.223
Browser: Chrome 141.0.0.0

Test Execution Log

<input type="checkbox"/> TEST SUITE: Code Collab (Create User)
Full Name: Code Collab (Create User)
Start / End / Elapsed: 2025-10-14 22:34:45.834 / 2025-10-14 22:40:14.496 / 00:05:28.662
Status: 5 test total, 5 passed, 0 failed, 0 error, 0 incomplete, 0 skipped
<input type="checkbox"/> TEST CASE: Test Cases/CU1_Name Field Cannot be empty
Full Name: Code Collab (Create User)/Test Cases/CU1_Name Field Cannot be empty
Description: checks the name field as empty
Start / End / Elapsed: 2025-10-14 22:34:47.760 / 2025-10-14 22:38:10.489 / 00:03:22.729
Status: PASSED
<input type="checkbox"/> TEST STEP: openBrowser("")
<input type="checkbox"/> TEST STEP: maximizeWindow()
<input type="checkbox"/> TEST STEP: driver = getWebDriver()
<input type="checkbox"/> TEST STEP: driver.get("https://code-collab-sage.vercel.app/")
<input type="checkbox"/> TEST STEP: wait = new org.openqa.selenium.support.ui.WebDriverWait(driver, 10)
<input type="checkbox"/> TEST STEP: signUpBtnBy = By.xpath("//button[normalize-space()='Sign Up']")
<input type="checkbox"/> TEST STEP: signUpBtn = wait.until(ExpectedConditions.elementToBeClickable(signUpBtnBy))
<input type="checkbox"/> TEST STEP: signUpBtn.click()
<input type="checkbox"/> TEST STEP: wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("display-name")))

- 8) You can click on expand all to see much details

The screenshot shows a 'Create your account' form. At the top, there is a link to 'Or sign in to your existing account'. Below the form fields, there is an error message in a red box: 'numbers are not allowed'. The form fields include:

- A text input field containing '1212' with the error message 'numbers are not allowed' displayed above it.
- An email input field containing 'pharosa@gmail.com'.
- A password input field containing '*****'.

At the bottom of the form is a blue 'Create account' button.



9) Generated Report

Code Collab (Create User) Test Log

Execution Environment

Host name: nm - LAPTOP-3E4TFJOT
Local OS: Windows 10 64bit
Katalon version: 9.7.6.223
Browser: Chrome 141.0.0.0

Test Execution Log

[-] TEST SUITE: Code Collab (Create User)

Full Name: Code Collab (Create User)
Start / End / Elapsed: 2025-10-14 22:34:45.834 / 2025-10-14 22:40:14.496 / 00:05:28.662
Status: 5 test total, 5 passed, 0 failed, 0 error, 0 incomplete, 0 skipped

[-] TEST CASE: Test Cases/CU1_Name Field Cannot be empty

Full Name: Code Collab (Create User)/Test Cases/CU1_Name Field Cannot be empty
Description: checks the name field as empty
Start / End / Elapsed: 2025-10-14 22:34:47.760 / 2025-10-14 22:38:10.489 / 00:03:22.729
Status: PASSED

[+] TEST STEP: openBrowser("")
[+] TEST STEP: maximizeWindow()
[+] TEST STEP: driver = getWebDriver()
[+] TEST STEP: driver.get("https://code-collab-sage.vercel.app/")
[+] TEST STEP: wait = new org.openqa.selenium.support.ui.WebDriverWait(driver, 10)
[+] TEST STEP: signUpBtnBy = By.xpath("//button[normalize-space()='Sign Up']")
[+] TEST STEP: signUpBtn = wait.until(ExpectedConditions.elementToBeClickable(signUpBtnBy))
[+] TEST STEP: signUpBtn.click()
[+] TEST STEP: wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("display-name")))
[+] TEST STEP: displayNameElem = driver.findElement(By.id("display-name"))
[+] TEST STEP: emailElem = driver.findElement(By.id("email-address"))
[+] TEST STEP: displayNameElem.clear()
[+] TEST STEP: displayNameElem.sendKeys("")
[+] TEST STEP: emailElem.click()
[+] TEST STEP: validationMsg = displayNameElem.getAttribute("validationMessage")
[+] TEST STEP: logInfo("Validation message captured: " + validationMsg)
[+] TEST STEP: if (validationMsg != null && toLowerCase().contains("fill out this field"))
[+] TEST STEP: try

[-] TEST CASE: Test Cases/CU2_Name cannot be Numeric

Full Name: Code Collab (Create User)/Test Cases/CU2_Name cannot be Numeric
Start / End / Elapsed: 2025-10-14 22:38:10.508 / 2025-10-14 22:39:02.815 / 00:00:52.307
Status: PASSED

[+] TEST STEP: testName = "1212"
[+] TEST STEP: testEmail = "pharosa@gmail.com"
[+] TEST STEP: testPassword = "abcd45@123"
[+] TEST STEP: openBrowser("")
[+] TEST STEP: maximizeWindow()
[+] TEST STEP: driver = getWebDriver()
[+] TEST STEP: driver.get("https://code-collab-sage.vercel.app/")
[+] TEST STEP: wait = new org.openqa.selenium.support.ui.WebDriverWait(driver, 15)
[+] TEST STEP: signUpBtnBy = By.xpath("//button[normalize-space()='Sign Up']")
[+] TEST STEP: signUpBtn = wait.until(ExpectedConditions.elementToBeClickable(signUpBtnBy))
[+] TEST STEP: signUpBtn.click()

```

[+] TEST STEP: wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("display-name")))
[+] TEST STEP: displayNameElem = driver.findElement(By.id("display-name"))
[+] TEST STEP: displayNameElem.clear()
[+] TEST STEP: displayNameElem.sendKeys(testName)
[+] TEST STEP: emailBy = By.id("email")
[+] TEST STEP: passwordBy = By.id("password")
[+] TEST STEP: emailElem = null
[+] TEST STEP: passwordElem = null
[+] TEST STEP: try
[+] TEST STEP: catch (Exception ignored)
[+] TEST STEP: try
[+] TEST STEP: if (emailElem != null)
[+] TEST STEP: if (passwordElem != null)
[+] TEST STEP: displayNameElem.sendKeys(TAB)
[+] TEST STEP: Thread.sleep(500)
[+] TEST STEP: submitBtn = null
[+] TEST STEP: try
[+] TEST STEP: if (submitBtn != null)
    TEST STEP: numericErrorXpath = By.xpath("//div[contains(@class,'text-red-600') or contains(@class,'bg-red-50')]"+ "
[+] [contains(translate(normalize-space(.),'ABCDEFGHIJKLMNOPQRSTUVWXYZ','abcdefghijklmnopqrstuvwxyz'),'numbers are not
allowed'))]")
[+] TEST STEP: cu2_flag = false
[+] TEST STEP: try
[+] TEST STEP: if (cu2_flag)
[+] TEST STEP: try
[+] TEST STEP: closeBrowser()

```

[] TEST CASE: Test Cases/CU3_Name cannot have Special Characters

Full Name: Code Collab (Create User)/Test Cases/CU3_Name cannot have Special Characters

Start / End / Elapsed: 2025-10-14 22:39:02.837 / 2025-10-14 22:39:27.050 / 00:00:24.213

Status: PASSED

```

[+] TEST STEP: testName = "Hiren@"
[+] TEST STEP: testEmail = "pharmosa@gmail.com"
[+] TEST STEP: testPassword = "viral123@"
[+] TEST STEP: openBrowser("")
[+] TEST STEP: maximizeWindow()
[+] TEST STEP: driver = getWebDriver()
[+] TEST STEP: driver.get("https://code-collab-sage.vercel.app/")
[+] TEST STEP: wait = new org.openqa.selenium.support.ui.WebDriverWait(driver, 15)
[+] TEST STEP: signUpBtnBy = By.xpath("//button[normalize-space()="Sign Up"]")
[+] TEST STEP: signUpBtn = wait.until(ExpectedConditions.elementToBeClickable(signUpBtnBy))
[+] TEST STEP: signUpBtn.click()
[+] TEST STEP: wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("display-name")))
[+] TEST STEP: displayNameElem = driver.findElement(By.id("display-name"))
[+] TEST STEP: displayNameElem.clear()
[+] TEST STEP: displayNameElem.sendKeys(testName)
[+] TEST STEP: emailElem = null
[+] TEST STEP: passwordElem = null
[+] TEST STEP: try
[+] TEST STEP: catch (Exception ignored)
[+] TEST STEP: try
[+] TEST STEP: if (emailElem != null)
[+] TEST STEP: if (passwordElem != null)

```

```
[+] TEST STEP: displayNameElem.sendKeys(TAB)
[+] TEST STEP: Thread.sleep(500)
[+] TEST STEP: submitBtn = null
[+] TEST STEP: try
[+] TEST STEP: if (submitBtn != null)
    TEST STEP: specialCharErrorXpath = By.xpath("//div[contains(@class,'text-red-600') or contains(@class,'bg-red-50')]") + "
[+] [contains(translate(normalize-space(.),'ABCDEFGHIJKLMNOPQRSTUVWXYZ','abcdefghijklmnopqrstuvwxyz'),'special
    characters are not allowed'))]"
[+] TEST STEP: cu3_flag = false
[+] TEST STEP: try
[+] TEST STEP: if (cu3_flag)
[+] TEST STEP: try
[+] TEST STEP: closeBrowser()
```

- TEST CASE: Test Cases/CU4_Name cannot have first character as blank space

Full Name: Code Collab (Create User)/Test Cases/CU4_Name cannot have first character as blank space

Start / End / Elapsed: 2025-10-14 22:39:27.096 / 2025-10-14 22:39:54.912 / 00:00:27.816

Status: PASSED

```
[+] TEST STEP: testName = " Hiren"
[+] TEST STEP: testEmail = "spacecheck@gmail.com"
[+] TEST STEP: testPassword = "space123@"
[+] TEST STEP: openBrowser("")
[+] TEST STEP: maximizeWindow()
[+] TEST STEP: driver = getWebDriver()
[+] TEST STEP: driver.get("https://code-collab-sage.vercel.app/")
[+] TEST STEP: wait = new org.openqa.selenium.support.ui.WebDriverWait(driver, 15)
[+] TEST STEP: signUpBtnBy = By.xpath("//button[normalize-space()="Sign Up"]")
[+] TEST STEP: signUpBtn = wait.until(ExpectedConditions.elementToBeClickable(signUpBtnBy))
[+] TEST STEP: signUpBtn.click()
[+] TEST STEP: wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("display-name")))
[+] TEST STEP: displayNameElem = driver.findElement(By.id("display-name"))
[+] TEST STEP: displayNameElem.clear()
[+] TEST STEP: displayNameElem.sendKeys(testName)
[+] TEST STEP: emailElem = null
[+] TEST STEP: passwordElem = null
[+] TEST STEP: try
[+] TEST STEP: catch (Exception ignored)
[+] TEST STEP: try
[+] TEST STEP: if (emailElem != null)
[+] TEST STEP: if (passwordElem != null)
[+] TEST STEP: displayNameElem.sendKeys(TAB)
[+] TEST STEP: Thread.sleep(500)
[+] TEST STEP: submitBtn = null
[+] TEST STEP: try
[+] TEST STEP: if (submitBtn != null)
    TEST STEP: firstCharErrorXpath = By.xpath("//div[contains(@class,'text-red-600') or contains(@class,'bg-red-50')]") + "
[+] [contains(translate(normalize-space(.),'ABCDEFGHIJKLMNOPQRSTUVWXYZ','abcdefghijklmnopqrstuvwxyz'),'first character
    cannot be space'))]"
[+] TEST STEP: cu4_flag = false
[+] TEST STEP: try
[+] TEST STEP: if (cu4_flag)
[+] TEST STEP: try
[+] TEST STEP: closeBrowser()
```

[TEST CASE: Test Cases/CU10_PASSWORD must have atleast one uppercase and lowercase character]

Full Name: Code Collab (Create User)/Test Cases/CU10_PASSWORD must have atleast one uppercase and lowercase character

Start / End / Elapsed: 2025-10-14 22:39:54.936 / 2025-10-14 22:40:14.496 / 00:00:19.560

Status: PASSED

[+TEST STEP: testName = "Hiren"

[+TEST STEP: testEmail = "testpassword@gmail.com"

[+TEST STEP: testPassword = "123456@#"

[+TEST STEP: openBrowser("")

[+TEST STEP: maximizeWindow()

[+TEST STEP: driver = getWebDriver()

[+TEST STEP: driver.get("https://code-collab-sage.vercel.app/")

[+TEST STEP: wait = new org.openqa.selenium.support.ui.WebDriverWait(driver, 15)

[+TEST STEP: signUpBtnBy = By.xpath("//button[normalize-space()='Sign Up']")

[+TEST STEP: signUpBtn = wait.until(ExpectedConditions.elementToBeClickable(signUpBtnBy))

[+TEST STEP: signUpBtn.click()

[+TEST STEP: wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("display-name")))

[+TEST STEP: displayNameElem = driver.findElement(By.id("display-name"))

[+TEST STEP: displayNameElem.clear()

[+TEST STEP: displayNameElem.sendKeys(testName)

[+TEST STEP: emailElem = null

[+TEST STEP: passwordElem = null

[+TEST STEP: try

[+TEST STEP: catch (Exception ignored)

[+TEST STEP: try

[+TEST STEP: if (emailElem != null)

[+TEST STEP: if (passwordElem != null)

[+TEST STEP: displayNameElem.sendKeys(TAB)

[+TEST STEP: Thread.sleep(500)

[+TEST STEP: passwordErrorXpath = By.xpath("//div[contains(@class,'text-red-600') or contains(@class,'bg-red-50')]") + "[contains(normalize-space(.),'ABCDEFGHIJKLMNPQRSTUVWXYZ','abcdefghijklmnopqrstuvwxyz'),'password must have uppercase and lowercase character'])"]"

[+TEST STEP: cu10_flag = false

[+TEST STEP: try

[+TEST STEP: if (cu10_flag)

[+TEST STEP: try

[+TEST STEP: closeBrowser()