



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

Experiment 6

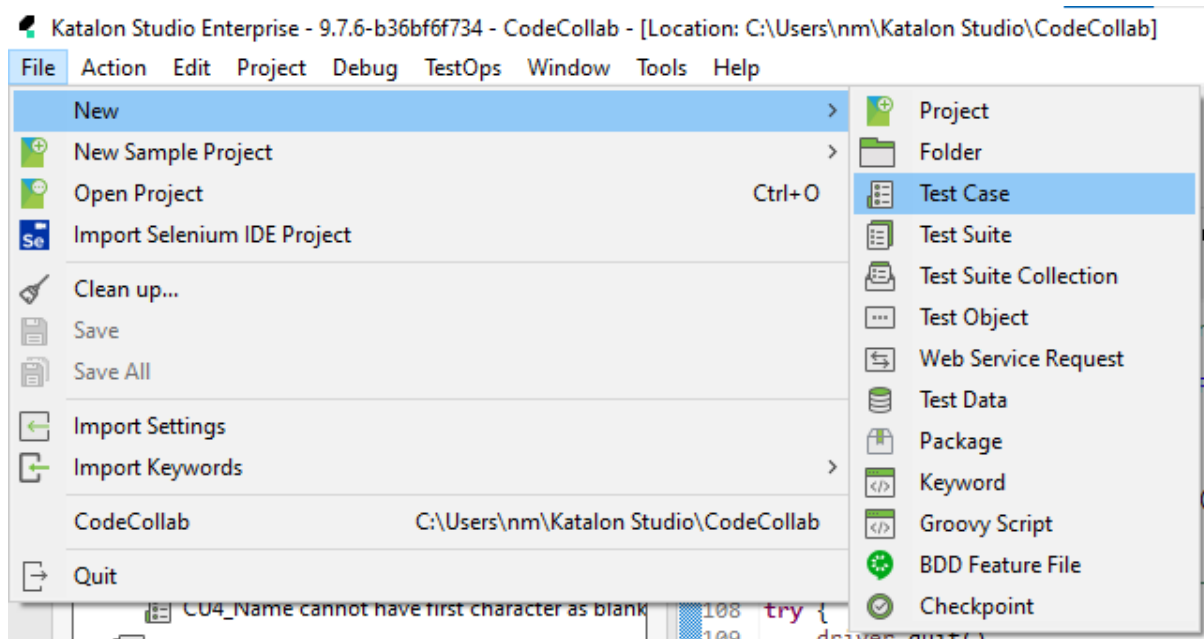
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Aim: - Preparing Test Suite and Report Generation for the test cases.

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

The screenshot shows a 'Test Suite' dialog box with a 'Name' field containing 'Code Collab (Create User)' and an empty 'Description' field. The 'OK' button is highlighted.

- 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

The screenshot shows a 'Test Case Browser' dialog box. It contains a search bar and a list of test cases with checkboxes. The test case 'CU4_Name cannot have first character as blank space' is selected. The 'OK' button is highlighted.

Test Case	Selected
CU10_PASSWORD must have atleast one uppercase and lowercase	<input checked="" type="checkbox"/>
CU1_Name Field Cannot be empty	<input checked="" type="checkbox"/>
CU2_Name cannot be Numeric	<input checked="" type="checkbox"/>
CU3_Name cannot have Special Characters	<input checked="" type="checkbox"/>
CU4_Name cannot have first character as blank space	<input checked="" type="checkbox"/>



- 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.

Execution Information

+ Add

🗑 Delete

⬆ Move Up

⬇ Move Down

📄 View Test Run History

⬅ Show Data Binding

Enter text to search...

🔍

🔍

⚠	No.	ID	Description	🌿 Flakiness (%)	🌿 Latest Run	🌿 Avg.Duration	☑ Run
	1	Test Cases/CU1_Name Field Cannot be empty	checks the name	--	--	--	☑
	2	Test Cases/CU2_Name cannot be Numeric		--	--	--	☑
	3	../CU3_Name cannot have Special Characters		--	--	--	☑
	4	../CU4_Name cannot have first character as blank :		--	--	--	☑
	5	../CU10_PASSWORD must have atleast one upperc		--	--	--	☑

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

The screenshot shows the Katalon Studio interface. The top bar includes tabs for Main, Script, Integration, Result, and Analytics. Below this, there are tabs for Problems, Event Log, Console, Log Viewer, and Self-healing Insights. The main area displays test results for a suite named '20251014_223354'. The results show 5 runs, 5 passes, 0 failures, 0 errors, and 0 skips. A green progress bar indicates the suite passed. The log viewer on the right shows the exportKatalonReports command and the elapsed time of 26.069s.

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

keys	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

TEST SUITE: Code Collab (Create User)

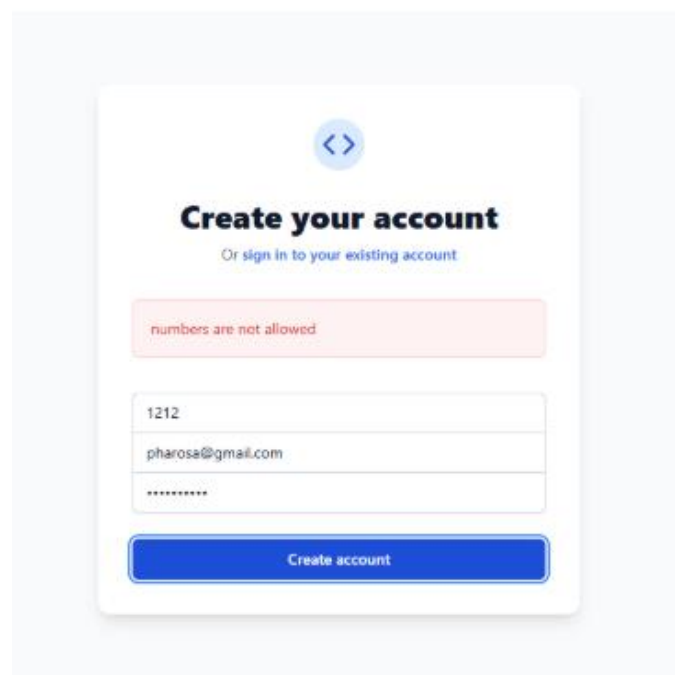
Full Name: Code Collab (Create User)
Start / End / Elapsed: 2025-10-14 22:34:45.834 / 2025-10-14 22:40:14.496 / 00:05:28.662
Status: 5 test total, 5 passed, 0 failed, 0 error, 0 incomplete, 0 skipped

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("disolv-name")))

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





Shri Vile Parle Kelavani Mandal's

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Autonomous College Affiliated to the University of Mumbai)

NAAC Accredited with "A" Grade (CGPA : 3.18)



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(translate(normalize-space(.),'ABCDEFGHIJKLMNOPQRSTUVWXYZ','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()