## **Intro to Software**

# **Engineering**

# **Test Cases Report**

Team:

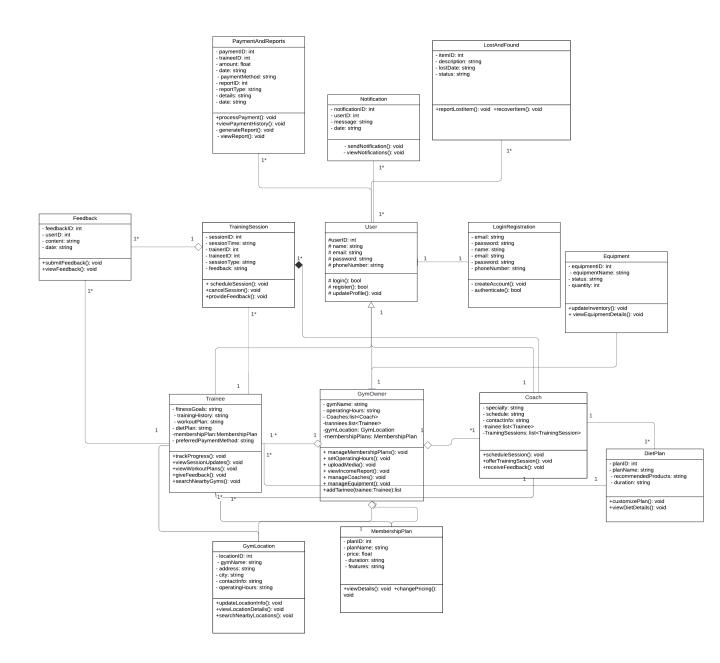
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# Content

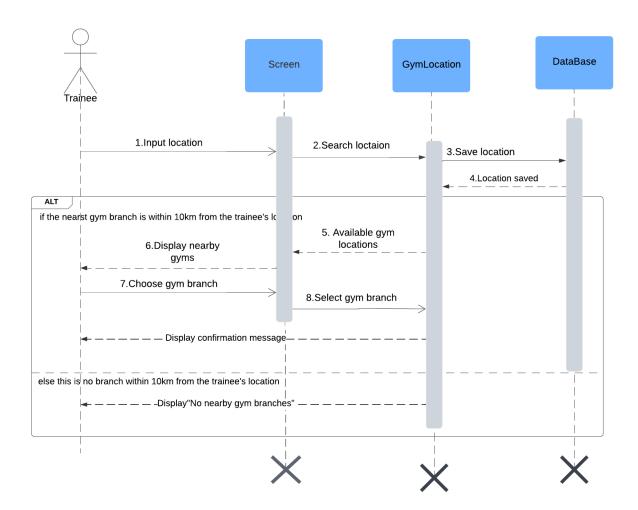
- Phase 2 Update
- Scope
- Test Case Table template

# Phase 2 class diagram:

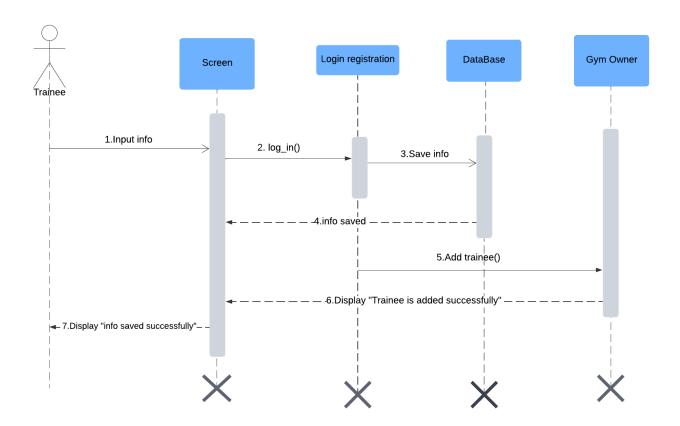


## Sequence diagrams:

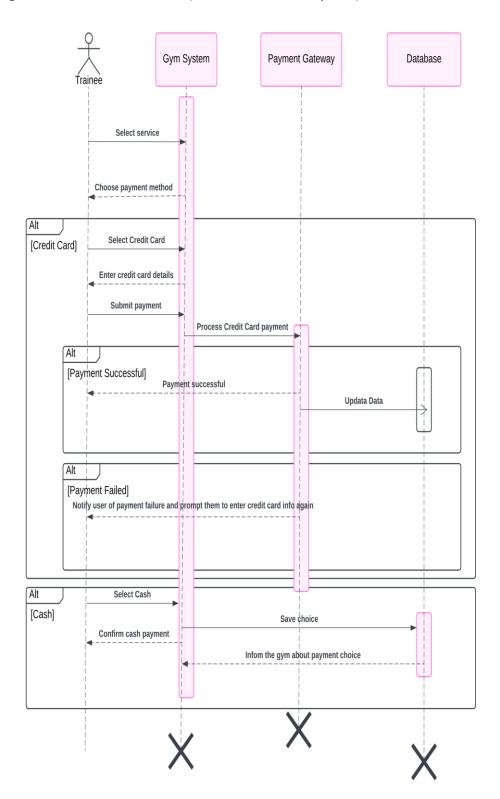
1) Requirement 18: The Trainee will be able to search for nearby gym branches depending on his location. (From User Story 19)



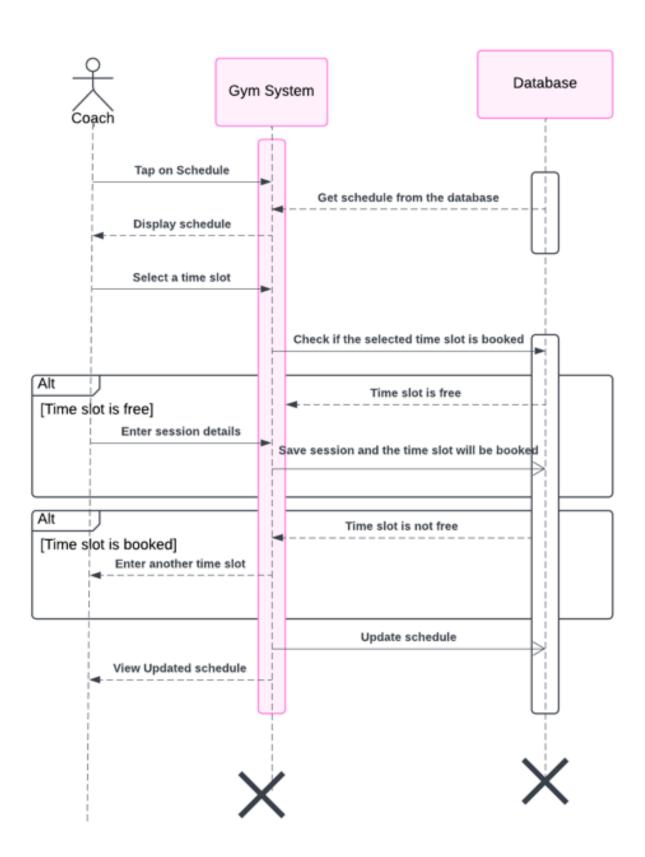
2) The system should save the user information to facilitate future actions and sign in process (From user story 23)



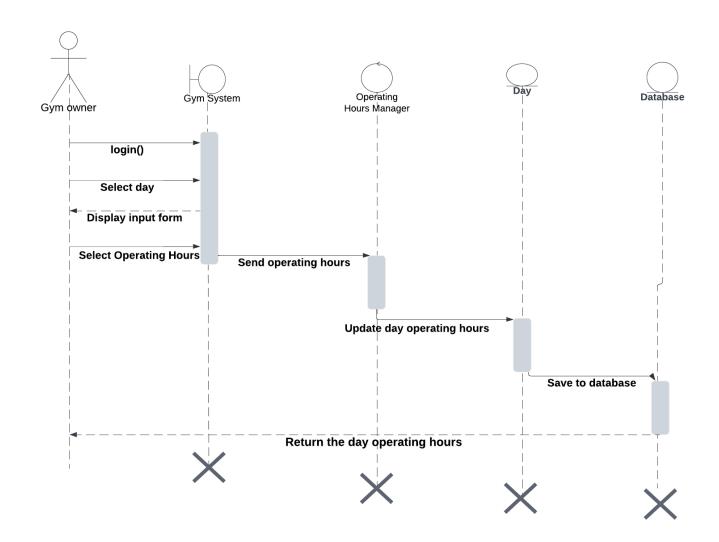
3) Requirement 21: The User should be able to choose the payment method whether using credit card or cash. (From User Story 21)



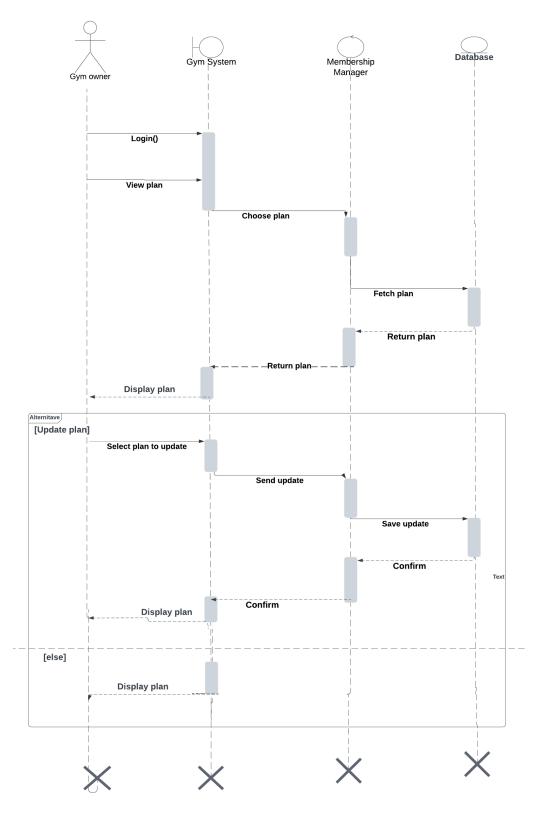
4) Requirement 6: The System should allow the coach to set and schedule their sessions with the trainees. (From User Story 6)



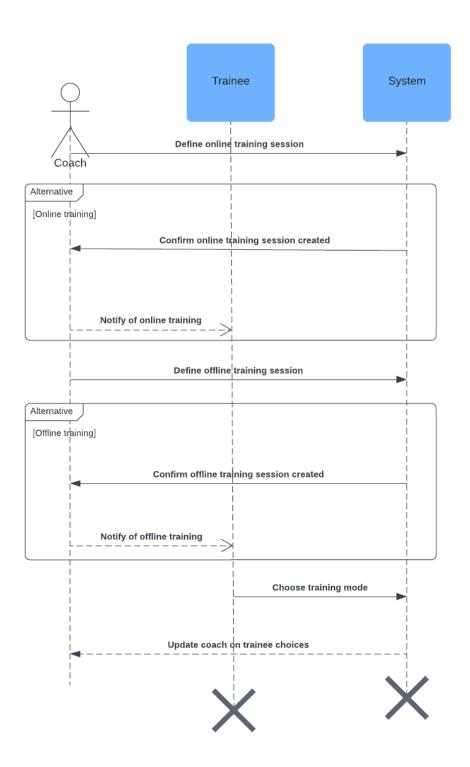
5) User Story 5: As a gym owner, I want to set my gym's operating hours, so that clients know when the gym is open.



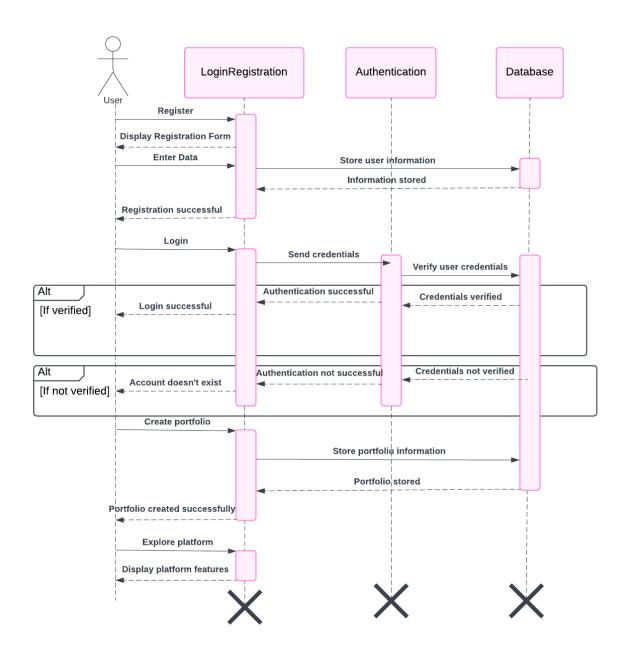
**6)** User Story 4: As a gym owner, I want to manage membership plans, like trial or premium with the option of changing their pricing or even the entire plan, so that I can focus on different clients' needs.



7) User Story 7: As a coach, I want to offer both online and offline training sessions, so can choose their preferred training mode.



**8)**User Story 1: As a user (a user could be a trainee, coach, or gym owner), I want to register and log in the gym system, so that I can create a portfolio and explore the platform.



# **Scope**

### 1)Payment methods:

Requirement 21: The Trainee should be able to choose the payment method whether using credit card or cash. (From User Story 21)

- **Payment Methode selection**: Validate that the trainee can successfully choose their preferred payment method (credit card or cash).
- **Payment Validation:** Ensure that the system correctly processes and validates credit card payments, including card details and transaction confirmation.
- **User Interface:** Confirm that the payment method selection interface is responsive and provides clear feedback to the user on the selected option.
- **Cash Option:** Ensure that when cash is selected, the system appropriately records this choice and provides necessary instructions for cash payments and a receipt with payment details.

### 2) Session Creation and Scheduling:

Requirement 6: The System should allow the coach to set and schedule sessions with the trainees (From User Story 6).

- **Session Creation:** Validate that a coach can successfully create a session with the required details (trainee, date, time, and session type).
- **Double-booking prevention:** Ensure that the system prevents double-booking by disallowing overlapping sessions for the same coach.
- **Data integrity:** Ensure that the system stores session data securely and correctly updates user profiles.
- **Performance Validation:** Validate that the session creation process completes within the system's performance standards which is 2 seconds.

## 3) Account Creation:

The system should allow all users to create their accounts. The focus of test cases will be on the validation of account creation for gym owners, trainees, and coaches, we need to cover all the requirements associated with the process of creating an account on our system. This is derived from requirement 1, security and performance requirements.

#### **Functional Requirements:**

- 1- Account Creation Process:
  - Ensure that gym owners, trainees, and coaches can create accounts with required details (name, email, password).
  - Ensure important fields are filled, and error messages are displayed if something is missing or incorrect.
  - o Ensure verification for email and password meets strength criteria.

#### **Non-Functional Requirements:**

- 2. Performance:
  - Ensure that account creation process is done within 2 seconds.
- 3. Security:
  - Ensure password data is encrypted to protect user data.

## 4) Session type and feedback collection:

Requirement 8: The System gives the trainee an option to choose the type of training session, whether online or offline. (From User Story 11).

- **Session Type Selection Functionality:** Verify that the system allows selection of training session type (online or offline).
- **Feedback Collection Functionality:** ensure that the system properly collects and handles feedback from trainees after a training session.
- **System Performance Under Load:** It ensures that the system can handle many users without slowing down or crashing.

# **Test Case Specification**

### 1)Payment methods:

**1.1 Unit Test case:** Here we are only checking if the credit card field will detect expired cards and gives error message to the user.

Test Case ID	Test Case Descript ion	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
TC21-01	Check if the credit card field will detect an error if the credit card is expired.	<ol> <li>The trainee login into the system.</li> <li>The trainee chooses a membership plan (trial or premium).</li> <li>The Trainee is assigned to a coach</li> </ol>	payment page.  2. Select "Credit		Display message to the user depends on the specific reason for the failure:  Your card has expired. Please use a valid card to complete the payment.	Your card has expired. Please use a valid card to complete the payment.	Pass

**1.2 Unit Test case:** Here we are only checking if the credit card field gives an error message if the user (Trainee) enters a card number less than 16-digit number or a CVV number less than 3-digit number.

Test Case ID	Test Case Descript ion	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
TC21-02	Check if the credit card field will detect an error if one or more of the credit card numbers are missing.	<ol> <li>The trainee login into the system.</li> <li>The trainee chooses a membershi p plan (trial or premium).</li> <li>The Trainee is assigned to a coach</li> </ol>	payment page.  2. Select "Credit Card" as		Display message to the user depends on the specific reason for the failure:  Invalid card details. Please check your card number, expiry date, and CVV and try again.	your card number, expiry date, and CVV and try again.	Pass

**1.3 Unit Test case:** Here we are only checking if the credit card field makes a successful payment if all input numbers are correct and valid.

Test Case ID	Test Case Descript ion	Pre- Conditions	Test Steps	Test Data	Expecte d Result	Actual Result	status
TC21-03	Check if the credit card field will make a successful Payment if all card numbers are correct and valid.	pran (trial or premium).	payment page.  2. Select "Credit Card" as the payment method		A success message is displayed.  Payment successful!  Your subscription has been activated.	Payment successful! Your subscription has been activated.	Pass

**1.4 Unit Test case:** Here we are only checking if the cash payment field makes a receipt with the payment details and the payment instructions are displayed to the user (Trainee).

Test Case ID	Test Case Descripti on	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
TC21-04		<ol> <li>The trainee login into the system.</li> <li>The trainee chooses a membership plan (trial or premium).</li> <li>The trainee is assigned to a coach.</li> </ol>		trainee selects "Pay by Cash"  2. The trainee clicks on "Confirm Payment Option"	duration, start date)	payment instructions.  A blank page with an error message "Unable to generate receipt" is displayed.	Failed

## 2) Session Creation and Scheduling:

1) Unit Test case: Here we are only checking if creation process successfully creates a session with the required details (trainee, date, time, and session type).

Test Case ID	Test Case Descript	Pre- Conditions	Test Steps	Test Data	Expect ed Result	Actual Result	Status
	ion						
TC06-01	Validate	1.The coach	1. The coach navigates	Trainee:	The system	A confirmation	Pass
	session	is logged	to the "Create Session"	John	successfully	message is	
	creation	into the	page.	Session	schedules the	displayed	
	for a	system and	2. Coach selects a	Type:	session and	"Your session	
	coach.	has a list of	trainee from the list.	Individua	adds it to the	has been	
		trainees	3. Coach selects the	1	coach's and	successfully	
		assigned to	session type	Date:	trainee's	scheduled."	
		them	(individual/group).	27.12.202	calendar. A		
			4. Coach enters the	4	confirmation		
			session date and time.	Time:	message is		
			5. Coach clicks the	10:00	displayed.		
			"Create Session" button	AM			
			to confirm.				

**2) Unit Test case:** Here we are only checking if the system prevents double-booking by disallowing overlapping sessions for the same coach.

Test Test Cas Case ID Descripti n	e Pre- c Conditions	Test Steps	Test Data	Expected Result	Actual Result	Status
TC06-02 Ensure that the system prevents double-booking for the same coach at the same time	Coach is logged in and has an existing session for the selected time	3. Coach selects the session type (individual/group). 4. Coach enters the	John Session Type: Individua I Date: 27.12.202 4 Time: 10:00	double- booking and display an error message	An error message is displayed: "Error: The selected time slot is already booked. Please choose a different time slot!"	Pass

**3) Unit Test case:** Here we are only checking if the system stores session data securely and correctly updates user profiles.

TC06-03	Ensure	Coach and	1. The coach navigates	Trainee:	The	The scheduled	Pass
	that the	trainee are	to the "Create Session"	Emily	scheduled	session appears	
	session is	logged into	page.	Session	session	in the trainee's	
	successfull	the system	2. Coach selects a	Type:	should	calendar and	
	y added to		trainee from the list.	Group	appear in the	profile.	
	the		3. Coach selects the	Date:	trainee's		
	trainee's		session type	27.12.202	calendar and		
	profile		(individual/group).	4	profile.		
	after		4. Coach enters the	Time:			
	scheduling		session date and time.	11:00			
			5. Coach clicks the	AM			
			"Create Session" button				
			to confirm.				
			(Schedule creation				
			steps)				
			6. Trainee logs into				
			their account to check				
			their schedule.				

**4) Unit Test case:** Here we are only checking if the session creation process completes within the system's performance standards which is 2 seconds.

TC06-04	Validate	Coach is	1. Coach attempts to	Trainee:	The session	The session is	Pass
	system	logged in	schedule a session.	Tom	should be	created within	
	performan	and the	2. Measure time taken	Session	created	2 seconds after	
	ce for	session	for response	Type:	within 2	clicking "	
	session	creation		Group	seconds after	Create Session	
	creation	interface is		Date:	clicking	".	
		available		23.12.202	" Create		
				4	Session ".		
				Time:			
				01:00 PM			

## 3) Account creation:

**3.1 Unit Test case:** Here we are only checking if the creating account process is done correctly.

Test Case ID	Test Case Descript ion	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
TC01-01	successful account creation.	access our gym system's website through	"Sign Up".  2. Enter important data like their name, their email, and	Trainee Password: P@ssw0rd	Account is successfully created and a confirmation mail is sent.	1. A confirmation message is displayed "Your account has been created successfully"  2. An email is sent to the user to inform them of their registration on our platform.	

**3.2 Unit Test case:** Here we are only checking if the email field gives an error message if the user, of any type, enters an invalid email format.

Test Case ID	Test Case Descript ion	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
TC01-02		The email field must be filled.	"Sign Up".  2. Enter informati on that	Malak Email: whatever Type: Trainee Password: P@ssw0rd	"Enter a valid email address." should be	message is displayed:	Pass

# **3.3 Unit Test case:** Here we are only checking if the password gives a warning massage if the password is weak.

Test Case ID	Test Case Descript ion	Pre- Conditions	Test Steps	Test Data	Expecte d Result	Actual Result	status
TC01-03	password	The password field must be filled.	"Sign Up".  2. Enter informati	Name: Malak Email: abcde@exa mple.com Type: Coach Password: 12345	that says, "Password must include uppercase, lowercase, number, and special character."	must include uppercase,	Pass

# **3.4 Unit Test case:** Here we are only checking the performance if it's done within 2 seconds.

Test Case ID	Test Case Descripti on	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
TC01-04		System is online and active.	"Sign Up".  2. Enter valid data, that	abcde@exam ple.com Type: Gym owner Password: P@ssw0rd	The account should be created within 2 seconds after clicking on "Create Account".	less than 2	Pass

# **3.5 Unit Test case:** Here we are only checking the security, the password should be encrypted before storing.

Test Case ID	Test Case Descripti on	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
TC01-05	that the system encrypts passwords and securely saves data.	There must be data to securely store, which means we need a created account with valid information to test this feature.	account.  2. Verify password encryption in the	Email:  abcde@exam  ple.com  Type: Gym	plaintext.		

## 4) Session type and feedback collection:

**4.1 Unit Test case:** Here we are only checking if the system allows the trainee to select the type of training session as Online and confirms the selection. (functional)

Test Case ID	Test Case Descripti on	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
	Verify the trainee can select the type of training session.		<ol> <li>Go to the session selection page.</li> <li>Select "Online" option.</li> <li>Click the "Confirm" button.</li> </ol>	"Online" option.  2. Click the "Confirm" button.	The system should accept and confirm the selected session type "Online" And display a confirmation message "Online selection is successfully selected. "	A confirmation message is displayed "Online selection is successfully selected."	Pass

**4.2 Unit Test case:** Here we are only checking if the system correctly collects feedback after a training session and confirms the submission. (functional)

Test Case ID	Test Case Descripti on	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
	Verify the system collects feedback from trainees after a session.	login  2. Trainee books a training session.  3. Trainee has completed a	navigates to the feedback page.  2. Enter feedback text.	text ("Great session")	should successfully collect and submit the feedback provided by the trainee and display a message 'Thank you for your feedback!'	feedback was successfully submitted, and a confirmation message was displayed	

**4.3 Unit Test case:** Here we are only checking if the system performs well under the load of multiple users selecting training session types and submitting feedback. (Non-functional)

Test Case ID	Test Case Descripti	Pre- Conditions	Test Steps	Test Data	Expected Result	Actual Result	status
	on						
TC08-03	Verify	Multiple	1) Simulate	100+	The system	The system	Pass
	system	users are	100 users going	concurrent	should handle up	handled	
	performan	logged in	to the session	users	to <b>100</b>	100+ users	
	ce when		selection page.		concurrent	without	
	multiple		2) Each user		users without	crashes. The	
	users		picks either		slowing down or	response	
	select		"Online" or		crashing, and	time for	
	session		"Offline" and		responses should	selecting	
	types and		submits their		be processed	"Online" or	
	submit		choice.		within 2 seconds.	"Offline"	
	feedback		3) Each user			was under 2	
			provides			seconds,	
			feedback and			and	
			submits it.			feedback	
						submission	
						was	
						processed	
						guickly.	

#### **Submission Guidelines**

- Format: Teams are required to submit their project documentation as a PDF.
- Submission Method: The completed document should be uploaded through the classroom platform by the specified deadline.
- You should submit one pdf file with naming convention:
   ID1\_ID2\_ID3\_ID4.pdf
- Each TA will post a submission link for his/her groups, so please submit
   the file to the link of your group

#### Deadline

Friday 27 December 2024 at 11.59 PM

No late submissions accepted; no apologies so be sure to submit on time

and don't wait until the last second

### Grading Criteria

Phase 2 update	2
Scope defined correctly	3
TestCases Desing template	Each team member should design 3 test cases , total Grade 5