Test	Case ID:	1		Test Designed by:	Goh Hong Xiang, Br	ryan	
Modu	ule Name:	Login	ogin		Chong Jing Hong		
Test	Title:	Verify Login Credentials		Test Execution Date:	e: 31/10/2021		
Desc	ription	Verify Login Credentials fro	m user input with Login Cred	dentials in Database			
Pre-c	onditions:	User must already have an	existing account				
Depe	endencies:						
Post-	-conditions:	The system notifies the use	er when login is successful o	r login failure			
Step		Test Data	Expected Results	Actual Results	Status	Notes	
1	Start the game	-	Login menu form appears	As expected	Pass		
2	Provide email	student@e.ntu.edu.sg		As expected	Pass		
3	Provide password	admin123		As expected	Pass		
4	Click login button		Direct user to main game	As expected	Pass	Login Credentials is correct and within the database	
Alter	nate Flows:						
1	Start the game	-	Login menu form appears	As expected	Pass		
2	Provide email	student1@e.ntu.edu.sg	-	As expected	Pass		
3	Provide password	helloworld		As expected	Pass		
4	Click login button		"Invalid email/password"	As expected	Pass	Login Credentials is wrong since password does not match with database credentials	
1	Start the game	-	Login menu form appears	As expected	Pass		
2	Provide email	student1	-	As expected	Pass		
3	Provide password	admin123		As expected	Pass		
4	Click login button		"Invalid email/password"	As expected	Pass	Login Credentials is wrong since invalid email format	
1	Start the game	-	Login menu form appears	As expected	Pass		
2	Provide email	student123@e.ntu.edu.sg	-	As expected	Pass		
3	Provide password	admin123	-	As expected	Pass		
4	Click login button		"Invalid email/password"	As expected	Pass	Login Credentials is wrong since email not in database	

Test	Case ID:	2		Test Designed by:	Goh Hong Xiang, Br	yan
Modu	ıle Name:	Register		Test Executed by:	Chong Jing Hong	
Test	Title:	Register a new user acc	ount	Test Execution Date:		
Desc	ription	Create new account			•	
Pre-c	onditions:	User must not have an e	existing account			
Depe	ndencies:					
Post-	conditions:	The system notifies the u	user when register is success	ful or register failure		
Step		Test Data	Expected Results	Actual Results	Status	Notes
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appear	As expected	Pass	
3	Provide username	studentrino	-	As expected	Pass	
4	Provide email	student@e.ntu.edu.sg	-	As expected	Pass	
5	Provide password	student	-	As expected	Pass	
6	Provide password again	student	-	As expected	Pass	
7	Click create button	-	Direct user to login menu	As expected	Pass	Email and password are of the correct format and both passwords provided match
Alter	nate Flows:	_				
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appear	As expected	Pass	
3	Provide username	studentrino	-	As expected	Pass	
4	Provide email	student123	-	As expected	Pass	
5	Provide password	student	-	As expected	Pass	
6	Provide password again	student	-	As expected	Pass	
7	Click create button	-	"Invalid email/password"	As expected	Pass	Email is not of the correct format
			•			
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appear	As expected	Pass	
3	Provide username	studentrino	-	As expected	Pass	
4	Provide email	student@e.ntu.edu.sg	-	As expected	Pass	
5	Provide password	student	-	As expected	Pass	
6	Provide password again	student123	-	As expected	Pass	
7	Click create button	-	"Passwords do not match"	As expected	Pass	Password entries do not match each other
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appear	As expected	Pass	
3	Provide username	studentrino	-	As expected	Pass	
4	Provide email	student@e.ntu.edu.sg	-	As expected	Pass	
5	Provide password	student	-	As expected	Pass	
6	Provide password again	student	-	As expected	Pass	
7	Click create button	-	"Invalid email/password"	As expected	Pass	Email already in use

Test	Case ID:	3		Test Designed by:	Goh Hong Xiang, Bryar	1			
Mod	ule Name:	Controls		Test Executed by:	Chong Jing Hong				
Test	Title:	Gameplay controls and	flows	Test Execution Date:	31/10/2021				
Description Gameplay controls and		Gameplay controls and	flows						
Pre-c	conditions:	Users must have an ex	Users must have an existing account and are already logged in						
Depe	endencies:								
Post	-conditions:	Character moves							
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes			
1	Press up arrow key / w key		Character moves up	As expected	Pass				
2	Press right arrow / d key		Character moves right	As expected	Pass				
3	Press down arrow / s key		Character moves down	As expected	Pass				
4	Press left arrow / a key		Character moves left	As expected	Pass				

Test Case ID:		4		Test Designed by:	Goh Hong Xiang, Bryan			
Module Name:		World		Test Executed by:	Chong Jing Hong			
Test Title:		Gameplay flows		Test Execution Date:	31/10/2021			
Description		Gameplay flows						
Pre-conditions	:	Users must have an ex	xisting account and are already	logged in				
Dependencies:	:							
Post-condition	ıs:	Gameplay events						
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes		
1	Move character to portal		Character is supposed to move to another scene	As expected	Pass			
1	Move character in the grass patches		Random knowledge will appear	As expected	Pass			

Test Case ID:	5		Test Designed by:	Goh Hong Xiang, Bryar	1	
Module Name:	Gym		Test Executed by:	Chong Jing Hong		
Test Title:	Gym battle		Test Execution Date:	31/10/2021		
Description Interacting with the gym leader NPCs						
Pre-conditions:	User must already entere	d through the gym portal				
Dependencies:						
Post-conditions:	Users' scores are logged					
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Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes
1 1	Move the character to the NPC	_	Character is able to reach the NPC	As expected	Pass	
2	Interact with the NPC	Press the e key	Dialog(s) between the player and NPC is shown	As expected	Pass	
3	Challenge the NPC	-	Player is brought to the question interface and starts solving the questions	As expected	Pass	

Test Case ID:		6		Test Designed by:	Goh Hong Xian	g, Bryan		
Modu	ıle Name:	Questions		Test Executed by:	Chong Jing Hong			
Test '	Title:	Questionaire		Test Execution Date:	31/10/2021			
Desc	ription	Answering quiz questi	ons					
Pre-c	onditions:	Users should already	be logged in, users should have already intera	cted with the NPC				
Depe	ndencies:							
Post-	conditions:	The system notifies th	The system notifies the user on their score					
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes		
Step 1	Test Step User selects an answer for question 1	Test Data -	Expected Results Answer is highlighted	Actual Results As expected	Status Pass	Notes		
Step 1 2	•		•			Notes		
1	User selects an answer for question 1	-	Answer is highlighted	As expected	Pass	Notes		
1 2	User selects an answer for question 1 User confirms selection	-	Answer is highlighted Next question is shown	As expected As expected	Pass Pass	Notes		
1 2 3	User selects an answer for question 1 User confirms selection User selects an answer for question 2		Answer is highlighted Next question is shown Answer is highlighted	As expected As expected As expected	Pass Pass Pass	Notes		
1 2 3 4	User selects an answer for question 1 User confirms selection User selects an answer for question 2 User confirms selection		Answer is highlighted Next question is shown Answer is highlighted Next question is shown	As expected As expected As expected As expected	Pass Pass Pass Pass	Notes		
1 2 3 4 5	User selects an answer for question 1 User confirms selection User selects an answer for question 2 User confirms selection User selects an answer for question 3		Answer is highlighted Next question is shown Answer is highlighted Next question is shown Answer is highlighted	As expected As expected As expected As expected As expected	Pass Pass Pass Pass Pass Pass	Notes		

As expected

As expected

Pass

Pass

Answer is highlighted

Quiz ends, score is displayed

9 User selects an answer for question 5

10 User confirms selection

Test	Case ID:	7		Test Designed by:	Goh Hong Xiang,	Bryan
	ile Name:	Create Assignment / Challenges		Test Executed by:	Chong Jing Hong	*
Test	Title:	Create Assignment / C		Test Execution Date:	31/10/2021	
Desc	ription	Create new questions	for students to solve and challenge themselves			
Pre-c	onditions:	User must be a teache	er and have already been logged in			
Depe	ndencies:					
Post-	conditions:	The system notifies th	e teacher when questions are created already			
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes
1	Click on the + icon	-	Popup interface should appear for user input	Popup interface appears	Pass	
2	Input the question	-	User should be able to input text / string	User is able to input text / string	Pass	
3	Input the options	-	User should be able to input text / string	User is able to input text / string	Pass	
4	Input the correct answer	-	User should be able to input text / string	User is able to input text / string	Pass	
5	Input the marks	-	User should be able to input int	User is able to input int	Pass	
6 Click on the done button			System should notify the teacher when the questions are created successfully	System notifies the teacher when the questions are created successfully	Pass	

Test	Case ID:	8		Test Designed by:	Goh Hong Xiang,	Bryan
Modu	ıle Name:	Report Generation		Test Executed by:	Chong Jing Hong	
Test '	Title:	Generate Report Test Execution Date: 31/10/2021				
Description Generate Report by teachers to view students' progress			eachers to view students' progress			
•			_			
Pre-c	conditions:	User must be a teache	er and has already logged in			
Depe	endencies:					
Post-	-conditions:	The system generates	a csv file			
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes
1	Click on the file icon	-	The csv file should be generated and console logged 'report generated'	The csv file is generated and console logged 'report generated'	Pass	
Alternate Flows: if student did not attempt any challenges / assignment			ment			
1	Click on the file icon	-	The csv file should not be generated and console logged 'no report to be generated'	The csv file is not generated and console logged 'no report to be generated'	Pass	

Test Case ID:	9	Test Designed by:	Goh Hong Xiang, Bryan
Module Name:	Leaderboard	Test Executed by:	Chong Jing Hong
Test Title:	Leaderboard	Test Execution Date:	31/10/2021
Description	Viewing student's ranking in the leaderboard base	d on gyms, assignments and challer	ges
Pre-conditions:	Users should already be logged in, users should h	ave already finished at least 1 gym l	pattle, assignment or challenge
Dependencies:	Gym battle score, Assignment score, Challenge so	core	
Post-conditions:	Students' ranking are correctly displayed		

Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes
1	Student clicks on 'View Leaderboard' button	-	student's rank is highlighted and	Leaderboard page is displayed, student's rank is highlighted and score is correctly displayed	Pass	