Test	Case ID:	1		Test Designed by:	Goh Hong Xiang, Bry	/an
	ile Name:	Login		Test Executed by:	Chong Jing Hong	
Test	Title:	Verify Login Credentials		Test Execution Date:		
	ription	Verify Login Credentials from	user input with Login Creder			
	1	, , , , , , , , , , , , , , , , , , , ,				
Pre-c	onditions:	User must already have an ex	risting account			
Depe	ndencies:					
	conditions:	The system notifies the user v	vhen login is successful or lo	ogin failure		
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Provide email	correct_email@e.ntu.edu.sg		As expected	Pass	
3	Provide password	correct_password		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	correct_email@e.ntu.edu.sg	-	As expected	Pass	
3	Provide password	wrong_password		As expected	Pass	
4	Click login button		"Invalid email/password"	As expected	Pass	Login credentials is wrong since password not in database
	-		I	T	_	
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Provide email	wrong_email@e.ntu.edu.sg	-	As expected	Pass	
3	Provide password	correct_password	-	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, Brya	an		
	ule Name:			Test Executed by:	Chong Jing Hong	•		
Test		Register a new user account		Test Execution Date:				
	ription	Create new account		Tool Excouncil Butor	0171072021			
Desc	inpuon	STORIO HOTE GOODWIN						
Pre-c	conditions:	User must not have an existing ac	count	I.	I.			
	endencies:							
	-conditions:	The system notifies the user wher	register is successful or registe	er failure				
Step	Test 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 appears	As expected	Pass			
3	Provide username	valid_username	-	As expected	Pass			
4	Provide email	valid_email@e.ntu.edu.sg	-	As expected	Pass			
5	Provide student ID	valid_studentID	-	As expected	Pass			
6	Provide password	Valid_password123!	-	As expected	Pass			
7	Provide password again	Valid password123!	-	As expected	Pass			
8	Provide account type	student	-	As expected	Pass			
9	Click create button	-	Direct user to login menu	As expected	Pass	Username, email, student ID, password and account type are all valid, password and password again matches		
Alter	nate Flows:			•	•			
1	Start the game	-	Login menu form appears	As expected	Pass			
2	Click on register button	-	Register menu form appears	As expected	Pass			
3	Provide username	valid_username	-	As expected	Pass			
4	Provide email	valid_email@e.ntu.edu.sg	-	As expected	Pass			
5	Provide student ID	valid_studentID	-	As expected	Pass			
6	Provide password	Valid_password123!	-	As expected	Pass			
7	Provide password again	Valid password123!	-	As expected	Pass			
8	Provide account type	student	-	As expected	Pass			
9	Click create button	-	System displays the 'Account Created' message	As expected	Pass	Username, email, student ID, password and account type are all valid, password and password again matches		
1	Start the game	-	Login menu form appears	As expected	Pass			
2	Click on register button	-	Register menu form appears	As expected	Pass			
3	Provide username	valid_username	-	As expected	Pass			
4	Provide email	registered_email@e.ntu.edu.sg	-	As expected	Pass			
5	Provide student ID	valid_studentID	-	As expected	Pass			
6	Provide password	Valid_password123!	-	As expected	Pass			
7	Provide password again	Valid_password123!	-	As expected	Pass			
8	Provide account type	student	-	As expected	Pass			
9	Click create button	-	System displays an "Invalid email or email already in use" message.	As expected	Pass	Email is already in use		

1	Start the game		Login menu form appears	As expected	Pass	
-	Click on register button	-	Register menu form appears	· ·	Pass	
2	•	-	Register menu form appears	As expected As expected	Pass	
3	Provide username	valid_username	-	· '		
4	Provide email	invalid_email	-	As expected	Pass	
5	Provide student ID	valid_studentID	-	As expected	Pass	
6	Provide password	Valid_password123!	-	As expected	Pass	
7	Provide password again	Valid_password123!	-	As expected	Pass	
8	Provide account type	student	-	As expected	Pass	
9	Click create button	-	System displays an "Invalid email or email already in use" message.	As expected	Pass	Invalid email
	1					
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appears	As expected	Pass	
3	Provide username	valid_username	-	As expected	Pass	
4	Provide email	valid_email@e.ntu.edu.sg	-	As expected	Pass	
5	Provide student ID	valid_studentID	-	As expected	Pass	
6	Provide password	invalid_password	-	As expected	Pass	
7	Provide password again	invalid_password	-	As expected	Pass	
8	Provide account type	student	-	As expected	Pass	
9	Click create button	-	System displays "Passwords must be at least 12 characters long, and have at least 1 uppercase letter, 1 lowercase letter, 1 number and 1 special character" message.	As expected	Pass	Invalid password as passwords must be at least 12 characters long, and have at least 1 uppercase letter, 1 lowercase letter, 1 number and 1 special character
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appears	As expected	Pass	
3	Provide username	valid_username	-	As expected	Pass	
4	Provide email	valid_email@e.ntu.edu.sg	-	As expected	Pass	
5	Provide student ID	valid_studentID	-	As expected	Pass	
6	Provide password	Valid_password123!	-	As expected	Pass	
7	Provide password again	Another_valid_password123!	-	As expected	Pass	
8	Provide account type	student	-	As expected	Pass	
9	Click create button	-	System displays a "Passwords do not match" message.	As expected	Pass	Passwords do not match
	la	T	T	1		
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appears	As expected	Pass	
3	III han a si al a con a a a a a a	valid username	-	As expected	Pass	
	Provide username	_	+		_	
4	Provide email	valid_email@e.ntu.edu.sg	-	As expected	Pass	
4 5 6		_	-	As expected As expected As expected	Pass Pass Pass	

7	Provide account type	Teacher	-	As expected	Pass	
8	Click create button	-	System displays the 'Account Created' message	As expected	Pass	Username, email, student ID, password and account type are all valid, password and password again matches
	To	1	T			
	Start the game	-	Login menu form appears	As expected	Pass	
	Click on register button	-	Register menu form appears	As expected	Pass	
3	Provide username	valid_username	-	As expected	Pass	
4	Provide email	registered_email@e.ntu.edu.sg	-	As expected	Pass	
5	Provide password	Valid_password123!	-	As expected	Pass	
6	Provide password again	Valid_password123!	-	As expected	Pass	
7	Provide account type	Teacher	-	As expected	Pass	
8	Click create button	-	System displays an "Invalid email or email already in use" message.	As expected	Pass	Email is already in use
		1		i		
	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appears	As expected	Pass	
3	Provide username	valid_username	-	As expected	Pass	
4	Provide email	invalid_email	-	As expected	Pass	
5	Provide password	Valid_password123!	-	As expected	Pass	
6	Provide password again	Valid_password123!	-	As expected	Pass	
7	Provide account type	Teacher	-	As expected	Pass	
8	Click create button	-	System displays an "Invalid email or email already in use" message.	As expected	Pass	Invalid email
1	Start the game		Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appears	As expected As expected	Pass	
3			Register menu form appears	<u>'</u>		
_	Provide username	valid_username	-	As expected	Pass	
	Provide email	valid_email@e.ntu.edu.sg	-	As expected	Pass	
	Provide password	invalid_password	-	As expected	Pass	
6	Provide password again	invalid_password	-	As expected	Pass	
7	Provide account type	Teacher	-	As expected	Pass	
8	Click create button	-	System displays "Passwords must be at least 12 characters long, and have at least 1 uppercase letter, 1 lowercase letter, 1 number and 1 special character" message.	As expected	Pass	Invalid password as passwords must be at least 12 characters long, and have at least 1 uppercase letter, 1 lowercase letter, 1 number and 1 special character
4	0		1	Ta	T 6	
1	Start the game	-	Login menu form appears	As expected	Pass	
2	Click on register button	-	Register menu form appears	As expected	Pass	
	Provide username	valid_username	-	As expected	Pass	
4	Provide email	valid_email@e.ntu.edu.sg	-	As expected	Pass	
5	Provide password	Valid password123!	-	As expected	Pass	

6	Provide password again	Another_valid_password123!	-	As expected	Pass	
7	Provide account type	Teacher	-	As expected	Pass	
8	Click create button	-	System displays a "Passwords do not match" message.	As expected	Pass	Passwords do not match

Test Case ID:	3		Test Designed by:	Goh Hong Xiang, Bryar	1	
Module Name:	Controls	Controls		Chong Jing Hong		
Test Title:	Gameplay controls and	Gameplay controls and flows		31/10/2021		
Description	Gameplay controls and	Gameplay controls and flows				
Pre-conditions:	Users must have an ex	sting account and are already	logged in			
Dependencies:						
Post-conditions:	Character moves					
Ston Tost Ston	Tost Data	Expected Posults	Actual Posuite	Status	Notes	

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	
5	Press 'e' key		Character interacts with objects or NPCs	As expected	Pass	
6	Press 'esc' key		Home Page Scene should be loaded	As expected	Pass	

Test Case ID:		4		Test Designed by:	Goh Hong Xiang, Bryan				
Module Name:		World	World		Chong Jing Hong				
Test Title:		Gameplay flows		Test Execution Date:	31/10/2021				
Description		Gameplay flows	· ·						
Pre-conditions:		Users must have an existi	ng account and are already log	ged in					
Dependencies:									
Post-conditions:		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				
1	Move character into solid objects		Character should not phase through solid objects	As expected	Pass				

Test Case ID:	5		Test Designed by:	Goh Hong Xiang, Bryan		
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	ed through the gym portal				
Dependencies:						
Post-conditions:	Users' scores are logged					
Step Test Step	Test Data	Expected Results	Actual Results	Status	Notes	

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		Dialog(s) between the player and NPC is shown	As expected	Pass	
3	Challenge the NPC	Press the 'e' key	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	Module Name: Questions			Test Executed by:	Chong Jing Ho	ng
Test '	Title:	Questionaire		Test Execution Date:	31/10/2021	
Desc	ription	Answering quiz quest	ions			
Pre-c	conditions:	Users should already	be logged in, users should have already inter-	acted with the NPC		
Depe	endencies:					
Post-	-conditions:	The system notifies th	ne user on their score			
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes
Repe	eat for n questions					
1	User is shown the question	-	Question and options displayed	As expected	Pass	
2	User selects an answer for question	-	Answer is highlighted and 'submit' button will appear	As expected	Pass	
3	User confirms selection by clicking on 'submit' button	-	Next question will be displayed	As expected	Pass	
Alter	native Flows					
1	User shown question	-	Question and options displayed	As expected	Pass	
2	User selects an answer for question	-	Answer is highlighted and 'submit' button will appear	As expected	Pass	
3	User confirms selection	-	Results of quiz shown	As expected	Pass	
4	User selects 'Done'	-	User returns back to Gym scene	As expected	Pass	

Test Case ID:	7	Test Designed by:	Goh Hong Xiang, Bryan			
Module Name:	Create Assignment	Test Executed by:	Chong Jing Hong			
Test Title:	Create Assignment	Test Execution Date:	31/10/2021			
Description	Create new assignments for students to complete					
Pre-conditions:	User must be a teacher and has already been logged in					
Dependencies:						
Post-conditions:	The system notifies the teacher that assignment is successfully created					

Step Test Step Test Data Expected Results Actual Results Status	Notes
Input the number of question 4	
Cick on the 'create' button Create Questions UI displayed As expected Pass	
Input the question The answer is 1. What is the answer?" Input displayed in input field As expected Pass	
Input the question What is the answer?" Input displayed in input field As expected Pass Input option 1 "Answer is 1" Input displayed in input field As expected Pass Input displayed in input field As expected Pass Input the correct answer 1 Input displayed in input field As expected Pass Input the correct answer 1 Input displayed in input field As expected Pass Input the question Input the question Input the question Input displayed in input field As expected Pass Input the question Input option 1 "Answer is 2." Input displayed in input field As expected Pass Input option 1 "Answer is 2" Input displayed in input field As expected Pass Input displa	
Input option 2	
Input the correct answer Imput displayed in input field As expected Pass	
8 Click on the 'done' button 9 Input the question 10 Input option 1 11 Input option 2 12 Input the correct answer 13 Click on the 'done' button 14 Input the question 15 Input the question 16 Input option 1 17 Input displayed in input field 17 Input displayed in input field 18 Expected 19 Input displayed in input field 19 Input option 2 10 Input option 2 11 Input option 2 12 Input the correct answer 13 Click on the 'done' button 14 Input the question 15 Input option 1 16 Input option 2 17 Input displayed in input field 18 Expected 19 Input displayed in input field 28 Input displayed in input details for next question 29 Input displayed in input field 30 Expected 31 Input the question 42 Input displayed in input field 43 Expected 44 Expected 55 Input option 1 56 Input option 1 57 Input option 2 58 Input displayed in input field 58 Expected 59 Input displayed in input field 59 Expected 50 Input displayed in input field 50 Expected 51 Input option 2 50 Input displayed in input field 50 Expected 51 Input option 2 50 Input displayed in input field 50 Expected 51 Input displayed in input field 52 Expected 53 Expected 54 Expected 55 Input option 2 56 Expected 57 Expected 58 Expected 58 Expected 58 Expected 59 Expected 50 Expected 50 Expected 51 Input displayed in input field 51 Input displayed in input field 52 Expected 53 Expected 54 Expected 55 Expected 55 Expected 56 Expected 57 Expected 57 Expected 58 Expected 58 Expected 58 Expected 58 Expected 59 Expected 50 Expected 50 Expected 50 Expected 50 Expected 50 Expected 51 Expected 51 Expected 52 Expected 53 Expected 54 Expected 55 Expected 55 Expected 56 Expected 57 Expected 57 Expected 58 Expected 58 Expected 58 Expected 58 Expected 58 Expected 59 Expected 50 Expected 51 Expected 51 Expected 51 Expected 52 Expected 53 Expected 54 Expected 55 Expected 56 Expected 57 Expecte	
Solution Click on the done button The answer is 2. What is the answer?" Input displayed in input field As expected Pass	
Input the question What is the answer?" Imput displayed in input field As expected Pass	
11 Input option 2 "Answer is 2" Input displayed in input field As expected Pass 12 Input the correct answer 2 Input displayed in input field As expected Pass 13 Click on the 'done' button User will be shown an interface to input details for next question As expected Pass 14 Input the question "The answer is 3. What is the answer?" Input displayed in input field As expected Pass 15 Input option 1 "Answer is 1" Input displayed in input field As expected Pass 16 Input option 2 "Answer is 3" Input displayed in input field As expected Pass 17 Input the correct answer 2 Input displayed in input field As expected Pass 18 Input displayed in input field As expected Pass 19 Input displayed in input field As expected Pass 19 Input displayed in input field As expected Pass 10 Input the correct answer 2 Input displayed in input field As expected Pass	
12 Input the correct answer 2 Input displayed in input field As expected Pass 13 Click on the 'done' button User will be shown an interface to input details for next question As expected Pass 14 Input the question What is the answer?" Input displayed in input field As expected Pass 15 Input option 1 "Answer is 1" Input displayed in input field As expected Pass 16 Input option 2 "Answer is 3" Input displayed in input field As expected Pass 17 Input the correct answer 2 Input displayed in input field As expected Pass 18 Expected Pass 19 Input displayed in input field As expected Pass 19 Input the correct answer 2 Input displayed in input field As expected Pass	
User will be shown an interface to input details for next question Light displayed in input field Light displayed in input fie	
13 Click on the done button -	
14 Input the question What is the answer?" Imput displayed in input field As expected Pass 15 Input option 1 "Answer is 1" Input displayed in input field As expected Pass 16 Input option 2 "Answer is 3" Input displayed in input field As expected Pass 17 Input the correct answer 2 Input displayed in input field As expected Pass	
16 Input option 2 "Answer is 3" Input displayed in input field As expected Pass 17 Input the correct answer 2 Input displayed in input field As expected Pass	
17 Input the correct answer 2 Input displayed in input field As expected Pass	
18 Click on the 'done' button - "Question created" message displays As expected Pass	
19 Input the question "The answer is 4. What is the answer?" Input displayed in input field As expected Pass	
20 Input option 1 "Answer is 1" Input displayed in input field As expected Pass	
21 Input option 2 "Answer is 4" Input displayed in input field As expected Pass	
22 Input the correct answer 2 Input displayed in input field As expected Pass	
23 Click on 'create question' - Set Assignment UI displays As expected Pass	
24 Input deadline date "07/11/2021" Input displayed in input field As expected Pass	
25 Input deadline time "23:59:59" Input displayed in input field As expected Pass	
26 Click on 'submit' - Assignment is created As expected Pass	
Alternative Flows	
1 Click on 'Set Assignment' button - Set Assignment UI displayed As expected Pass	
2 Input the number of question 4 Input displayed in input field As expected Pass	
3 Click on the 'create' button - Create Questions UI displayed As expected Pass	
4 Input the question "The answer is 1. What is the answer?" Input displayed in input field As expected Pass	
5 Input option 1 "Answer is 1" Input displayed in input field As expected Pass	
7 Input the correct answer 1 Input displayed in input field As expected Pass	
8 Click on the 'done' button - "Question, Option1, Option2 and Answer cannot be empty" As expected Pass	
1 Click on 'Set Assignment' button - Set Assignment UI displayed As expected Pass	
2 Input the number of question 4 Input displayed in input field As expected Pass	
3 Click on the 'create' button - Create Questions UI displayed As expected Pass	
4 Input the question "The answer is 1. What is the answer?" Input displayed in input field As expected Pass	
5 Input option 2 "Answer is 1" Input displayed in input field As expected Pass	

7	Input the correct answer	14	Input displayed in input field	As expected	Pass	
8	Click on the 'done' button	ļ	"Question, Option1, Option2 and Answer cannot be empty"	As expected As expected	Pass	
0	Click on the done button	-	Question, Option 7, Option 2 and Answer Cannot be empty	As expected	Pass	
1	Click on 'Set Assignment' button		Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	4	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
4	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
5	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the 'done' button	1	"Question, Option1, Option2 and Answer cannot be empty"	As expected	Pass	
	Olick off the done button	-	Question, Option2 and Answer cannot be empty	AS expected	1 433	
1	Click on 'Set Assignment' button	-	Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	4	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
		"The answer is 1.	, ,	·		
4	Input the question	What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
7	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
8	Click on the 'done' button	-	"Question, Option1, Option2 and Answer cannot be empty"	As expected	Pass	
1	Click on 'Set Assignment' button	-	Set Assignment UI displayed	As expected	Pass	
2	Click on the 'create' button	_	System displays an "Number of questions cannot be empty"	As expected	Pass	
			message.			
1	Click on 'Set Assignment' button		Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	0	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	0	System displays an "Invalid number of questions" message.	As expected	Pass	
3	Click off the create button	-	System displays an invalid humber of questions message.	As expected	F 455	
1	Click on 'Set Assignment' button		Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	4	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
		"The answer is 1.	' '	·		
4	Input the question	What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
6	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the 'done' button	-	User will be shown an interface to input details for next question	As expected	Pass	
9	Input the question	"The answer is 2. What is the answer?"	Input displayed in input field	As expected	Pass	
10	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
11	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
12	Input the correct answer	2	Input displayed in input field	As expected	Pass	
13	Click on the done button	_	User will be shown an interface to input details for next question	As expected	Pass	
14	Input the question	"The answer is 3. What is the answer?"	Input displayed in input field	As expected	Pass	
15	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
16	Input option 2	"Answer is 3"	Input displayed in input field	As expected	Pass	
17	Input the correct answer	2	Input displayed in input field	As expected	Pass	
18	Click on the 'done' button	_	User will be shown an interface to input details for next question	As expected	Pass	
19	Input the question	"The answer is 4. What is the answer?"	Input displayed in input field	As expected	Pass	
20	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
21	Input option 2	"Answer is 4"	Input displayed in input field	As expected	Pass	
22	Input the correct answer	2	Input displayed in input field	As expected	Pass	
23	Click on 'create question'	-	Set Assignment UI displays	As expected	Pass	
24	Click on 'submit'	-	"Deadline cannot be empty."	As expected	Pass	No deadline date and time entered
	1	1	1 F-2	P. C. C. C.		

1	Click on 'Set Assignment' button	-	Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	4	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
4	Input the question	"The answer is 1. What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
6	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the 'done' button	-	User will be shown an interface to input details for next question	As expected	Pass	
9	Input the question	"The answer is 2. What is the answer?"	Input displayed in input field	As expected	Pass	
10	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
11	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
12	Input the correct answer	2	Input displayed in input field	As expected	Pass	
13	Click on the done button	-	User will be shown an interface to input details for next question	As expected	Pass	
14	Input the question	"The answer is 3. What is the answer?"	Input displayed in input field	As expected	Pass	
15	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
16	Input option 2	"Answer is 3"	Input displayed in input field	As expected	Pass	
17	Input the correct answer	2	Input displayed in input field	As expected	Pass	
18	Click on the 'done' button	-	User will be shown an interface to input details for next question	As expected	Pass	
19	Input the question	"The answer is 4. What is the answer?"	Input displayed in input field	As expected	Pass	
20	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
21	Input option 2	"Answer is 4"	Input displayed in input field	As expected	Pass	
22	Input the correct answer	2	Input displayed in input field	As expected	Pass	
23	Click on 'create question'	-	Set Assignment UI displays	As expected	Pass	
24	Input deadline time	"23:59:59"	Input displayed in input field	As expected	Pass	
25	Click on 'submit'	-	"Deadline cannot be empty."	As expected	Pass	No deadline date entered
	Olish as 10 st Assissance at least a		Oat Aasimum ant III dismlayed	As amaratad	Dana	
1	Click on 'Set Assignment' button	-	Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	4	Input displayed in input field	As expected	Pass	
3 4	Click on the 'create' button Input the question	"The answer is 1. What is the answer?"	Create Questions UI displayed Input displayed in input field	As expected As expected	Pass Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
6	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the 'done' button	-	User will be shown an interface to input details for next question	As expected	Pass	
9	Input the question	"The answer is 2. What is the answer?"	Input displayed in input field	As expected	Pass	_
10	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
11	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
12	Input the correct answer	2	Input displayed in input field	As expected	Pass	
13	Click on the done button	-	User will be shown an interface to input details for next question	As expected	Pass	
14	Input the question	"The answer is 3. What is the answer?"	Input displayed in input field	As expected	Pass	
	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
15						
16	Input option 2	"Answer is 3"	Input displayed in input field	As expected	Pass	
		"Answer is 3"	Input displayed in input field	As expected As expected	Pass	
16	Input option 2	2		•		
16 17	Input option 2 Input the correct answer		Input displayed in input field User will be shown an interface to input details	As expected	Pass	

		In		1		
20	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
21	Input option 2	"Answer is 4"	Input displayed in input field	As expected	Pass	
22	Input the correct answer	2	Input displayed in input field	As expected	Pass	
23	Click on 'create question'	-	Set Assignment UI displays	As expected	Pass	
24	Input deadline date	"07/11/2021"	Input displayed in input field	As expected	Pass	
25	Click on 'submit'	-	"Deadline cannot be empty."	As expected	Pass	No deadline time entered
1	Click on 'Set Assignment' button	-	Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	4	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
4	Input the question	"The answer is 1. What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
6	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the 'done' button	_	User will be shown an interface to input details for next question	As expected	Pass	
9	Input the question	"The answer is 2. What is the answer?"	Input displayed in input field	As expected	Pass	
10	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
11	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
12	Input the correct answer	2	Input displayed in input field	As expected	Pass	
13	Click on the 'done' button	_	User will be shown an interface to input details for next question	As expected	Pass	
14	Input the question	"The answer is 3. What is the answer?"	Input displayed in input field	As expected	Pass	
15	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
16	Input option 2	"Answer is 3"	Input displayed in input field	As expected	Pass	
17	Input the correct answer	2	Input displayed in input field	As expected	Pass	
	'	_	User will be shown an interface to input details			
18	Click on the 'done' button	-	for next question	As expected	Pass	
19	Input the question	"The answer is 4. What is the answer?"	Input displayed in input field	As expected	Pass	
20	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
21	Input option 2	"Answer is 4"	Input displayed in input field	As expected	Pass	
22	Input the correct answer	2	Input displayed in input field	As expected	Pass	
23	Click on 'create question'	-	Set Assignment UI displays	As expected	Pass	
24	Input deadline date	"30/10/2021"	Input displayed in input field	As expected	Pass	Deadline entered is before present day
25	Input deadline time	"23:59:59"	Input displayed in input field	As expected	Pass	
26	Click on 'submit'	-	"Invalid Deadline"	As expected	Pass	
		1	- 1	1		-
1	Click on 'Set Assignment' button	-	Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	4	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
4	Input the question	"The answer is 1. What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
6	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the 'done' button	_	User will be shown an interface to input details for next question	As expected	Pass	
9	Input the question	"The answer is 2. What is the answer?"	Input displayed in input field	As expected	Pass	
10	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
11	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
12	Input the correct answer	2	Input displayed in input field	As expected	Pass	
13	Click on the 'done' button	_	User will be shown an interface to input details for next question	As expected	Pass	
14	Input the question	"The answer is 3. What is the answer?"	Input displayed in input field	As expected	Pass	
1			1			

15	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
16	Input option 2	"Answer is 3"	Input displayed in input field	As expected	Pass	
17	Input the correct answer	2	Input displayed in input field	As expected	Pass	
18	Click on the 'done' button	-	User will be shown an interface to input details for next question	As expected	Pass	
19	Input the question	"The answer is 4. What is the answer?"	Input displayed in input field	As expected	Pass	
20	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
21	Input option 2	"Answer is 4"	Input displayed in input field	As expected	Pass	
22	Input the correct answer	2	Input displayed in input field	As expected	Pass	
23	Click on 'create question'	-	Set Assignment UI displays	As expected	Pass	
24	Input deadline date	"32/11/2021"	Input displayed in input field	As expected	Pass	No such date
25	Input deadline time	"25:59:59"	Input displayed in input field	As expected	Pass	No such time
26	Click on 'submit'	-	"Unable to parse deadline to DateTime"	As expected	Pass	
				•		
1	Click on 'Set Assignment' button	-	Set Assignment UI displayed	As expected	Pass	
2	Input the number of question	4	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
4	Input the question	"The answer is 1. What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
6	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	0	Input displayed in input field	As expected	Pass	Answer does not correspond to any of the options
8	Click on the done button	-	"Invalid Answer"	As expected	Pass	

Test	Case ID:	8		Test Designed by:	Goh Hong Xiang, Bry	an	
Modu	ule Name:	Report Generation		Test Executed by:	Chong Jing Hong		
Test	Title:	Generate Report		Test Execution Date:	31/10/2021		
Desc	ription	Generate Report by teac	hers to view students' progress		•		
Pre-c	conditions:	User must be a teacher a	and has already logged in				
Depe	endencies:						
Post-	-conditions:						
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes	
1	Click on 'View Summary' button	-	View Summary UI displays	As expected	Pass		
2	Input student's username	"valid_username"	Input display in input field	As expected	Pass		
3	Click on 'get report' button		Scores for each gym, challenge and assignment completed is displayed	As expected	Pass		
Alter	native Flows						
1	Click on 'View Summary' button	-	View Summary UI displays	As expected	Pass		
2	Input student's username	"invalid_username"	Input display in input field	As expected	Pass		
3	Click on 'Get Report' button	-	Nothing is displayed	As expected	Pass		
	•						
1	Click on 'View Summary' button	-	View Summary UI displays	As expected	Pass		
2	Input student's username	"user_with_no_scores"	Input display in input field	As expected	Pass		
3	Click on 'Get Report' button	-	"No Records"	As expected	Pass		

Test Case ID:		9		Test Designed by:	Goh Hong Xiai	ng, Bryan	
Modul	le Name:	Leaderboard		Test Executed by:	Chong Jing Ho	ng	
Test T	itle:	Leaderboard		Test Execution Date:	31/10/2021		
Descr	iption	Viewing studer	nt's ranking in the leaderboard base	d on gyms, assignments and chal	enges		
Pre-co	onditions:	Users should already be logged in, users should have already finished at least 1 gym battle, assignment or challenge					
Deper	ndencies:	Gym battle sco	Gym battle score, Assignment score, Challenge score				
Post-	conditions:	Students' ranki	ng are correctly displayed				
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes	
1	Student clicks on 'View Leaderboard' button	-	Leaderboard page is displayed with all existing players' scores sorted in descending order	As expected	Pass		

Tes	t Case ID:	10			Goh Hong Xiang,	Bryan	
Мо	dule Name:	Create Challenges		Test Executed by:	Chong Jing Hong		
Tes	t Title:	Create Challenges		Test Execution Date:	31/10/2021		
Des	scription	Students can create challeng	udents can create challenges for their friends to complete				
Pre	-conditions:	User must be a student and	have already been logged in				
Dej	pendencies:						
Pos	st-conditions:	The system notifies the stud	ents that challenge is successfully created				
			·				

		,	,			
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes
1	Move the character to the NPC	-	Character is able to reach NPC	As expected	Pass	
2	Interact with the NPC	Press the 'e' key	Dialog(s) between the player and NPC is shown and View Challenge UI is displayed after	As expected	Pass	
3	Click on the 'Create Challenge' button	-	Create Challenge UI displayed	As expected	Pass	
4	Input the number of question	3	Input display in input field	As expected	Pass	
5	Click on the 'Create' button	-	Create New Question UI displayed	As expected	Pass	
6	Input the question	"The answer is 1. What is the answer?"	Input display in input field	As expected	Pass	
7	Input option 1	"Answer is 1"	Input display in input field	As expected	Pass	
8	Input option 2	"Answer is 2"	Input display in input field	As expected	Pass	
9	Input the correct answer	1	Input display in input field	As expected	Pass	
10	Click on next question	-	User will be shown an interface to input details for next question	As expected	Pass	
11	Input the question	"The answer is 2. What is the answer?"	Input display in input field	As expected	Pass	
12	Input option 1	"Answer is 1"	Input display in input field	As expected	Pass	
13	Input option 2	"Answer is 2"	Input display in input field	As expected	Pass	
14	Input the correct answer	2	Input display in input field	As expected	Pass	
15	Click on next question	-	User will be shown an interface to input details for next question	As expected	Pass	
16	Input the question	"The answer is 3. What is the answer?"	Input display in input field	As expected	Pass	
17	Input option 1	"Answer is 1"	Input display in input field	As expected	Pass	
18	Input option 2	"Answer is 3"	Input display in input field	As expected	Pass	
19	Input the correct answer	3	Input display in input field	As expected	Pass	
20	Click on 'create question'	-	Create Challenge UI displays	As expected	Pass	
21	Input opponent email	valid_email@e.ntu.edu.sg	Input displayed in input field	As expected	Pass	
22	Click on 'submit'	-	Challenge is created	As expected	Pass	
Alter	native Flows:					
1	Click on 'Create Challenge' button	-	Create Challenge UI displayed	As expected	Pass	
2	Input the number of question	3	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
4	Input the question	"The answer is 1. What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the done button	-	"Question, Option1, Option2 and Answer cannot be empty"	As expected	Pass	
1	Click on 'Create Challenge' button	-	Create Challenge UI displayed	As expected	Pass	
2	Input the number of question	3	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
4	Input the question	"The answer is 1. What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 2	"Answer is 1"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the done button	-	"Question, Option1, Option2 and Answer cannot be empty"	As expected	Pass	

1	Click on 'Create Challenge' button		Create Challenge UI displayed	As expected	Pass	
2	Input the number of question	3	Input displayed in input field	As expected	Pass	
		3		•		
3	Click on the 'create' button		Create Questions UI displayed	As expected	Pass	
4	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
5	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
7	Input the correct answer	1	Input displayed in input field	As expected	Pass	
8	Click on the done button	-	"Question, Option1, Option2 and Answer cannot be empty"	As expected	Pass	
1	Click on 'Create Challenge' button	-	Create Challenge UI displayed	As expected	Pass	
2	Input the number of question	3	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	Create Questions UI displayed	As expected	Pass	
4	Input the question	"The answer is 1. What is the answer?"	Input displayed in input field	As expected	Pass	
5	Input option 1	"Answer is 1"	Input displayed in input field	As expected	Pass	
7	Input option 2	"Answer is 2"	Input displayed in input field	As expected	Pass	
8	Click on the done button	-	"Question, Option1, Option2 and Answer cannot be empty"	As expected	Pass	
	•	•	,	,		
1	Click on 'Create Challenge' button	-	Create Challenge UI displayed	As expected	Pass	
2	Input the number of question	0	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	System displays an "Invalid number of questions" message.	As expected	Pass	
	I .					
1	Click on 'Create Challenge' button	-	Create Challenge UI displayed	As expected	Pass	
2	Input the number of question	1	Input displayed in input field	As expected	Pass	
3	Click on the 'create' button	-	"Only 3 questions are required for challenge"	As expected	Pass	
<u> </u>			and a decement and redement on animon 2	in superior		
1	Move the character to the NPC	-	Character is able to reach NPC	As expected	Pass	
2	Interact with the NPC	Press the 'e' key	Dialog(s) between the player and NPC is shown and View Challenge UI is displayed after	As expected	Pass	
3	Click on the 'Create Challenge' button	-	Create Challenge UI displayed	As expected	Pass	
4	Input the number of question	3	Input display in input field	As expected	Pass	
5	Click on the 'Create' button	-	Create New Question UI displayed	As expected	Pass	
6	Input the question	"The answer is 1. What is the answer?"	Input display in input field	As expected	Pass	
7	Input option 1	"Answer is 1"	Input display in input field	As expected	Pass	
8	Input option 2	"Answer is 2"	Input display in input field	As expected	Pass	
9	Input the correct answer	1	Input display in input field	As expected	Pass	
10	Click on next question		User will be shown an interface to input details	As expected	Pass	
10	Click off flext question	-	for next question	no expected	F a 5 5	
11	Input the question	"The answer is 2. What is the answer?"	Input display in input field	As expected	Pass	
12	Input option 1	"Answer is 1"	Input display in input field	As expected	Pass	
13	Input option 2	"Answer is 2"	Input display in input field	As expected	Pass	
14	Input the correct answer	2	Input display in input field	As expected	Pass	
15	Click on next question	-	User will be shown an interface to input details for next question	As expected	Pass	
16	Input the question	"The answer is 3. What is the answer?"	Input display in input field	As expected	Pass	
17	Input option 1	"Answer is 1"	Input display in input field	As expected	Pass	
18	Input option 2	"Answer is 3"	Input display in input field	As expected	Pass	
19	Input the correct answer	3	Input display in input field	As expected	Pass	
20	Click on 'create question'	-	Create Challenge UI displays	As expected	Pass	
			1.0	1		
21	Click on 'submit'	-	"Opponent Email cannot be empty"	As expected	Pass	

Test 0	Case ID:	11		Test Designed by:	Goh Hong Xiang, I	Bryan	
Modu	le Name:	Edit Student Profile		Test Executed by:	Chong Jing Hong		
Test 1	Γitle:	Edit Student Profile		Test Execution Date:	31/10/2021		
Desci	Description Students can edit their profiles						
Pre-c	onditions:	User must be a student and	I has already been logged in				
Depe	ndencies:						
Post-	conditions:	The system notifies the stud	dents that their profile has been successfully edited				
	·						
Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes	
1	Input username	"valid_username"	Input displays in input field	As expected	Pass		

Step		Test Data	Expected Results	Actual Results	Status	Notes
1	Input username	"valid_username"	Input displays in input field	As expected	Pass	
2	Input student ID	"valid_studentID"	Input displays in input field	As expected	Pass	
3	Input email	"valid_email"	Input displays in input field	As expected	Pass	
4	Input password	"Valid_password123!"	Input displays in input field	As expected	Pass	
5	Re-enter password	"Valid_password123!"	Input displays in input field	As expected	Pass	
6	Select Edit	-	"Successfully change username, studentld, email and password"	As expected	Pass	
Alter	native Flows:	•				
1	Input username	"valid_username"	Input displays in input field	As expected	Pass	
2	Input student ID	"valid_studentID"	Input displays in input field	As expected	Pass	
3	Input email	"valid_email"	Input displays in input field	As expected	Pass	
4	Input password	"Valid_password123!"	Input displays in input field	As expected	Pass	
5	Re-enter password	"Another_password123!"	Input displays in input field	As expected	Pass	
6	Select Edit	-	"Password does not match"	As expected	Pass	
1	Input username	"valid_username"	Input displays in input field	As expected	Pass	
2	Input student ID	"valid_studentID"	Input displays in input field	As expected	Pass	
3	Input email	"valid_email"	Input displays in input field	As expected	Pass	
4	Input password	"invalid_pass"	Input displays in input field	As expected	Pass	
5	Re-enter password	"invalid_pass"	Input displays in input field	As expected	Pass	
6	Select Edit	-	"Please ensure that your password contains uppercase, lowercase, number, and symbols"	As expected	Pass	
1	Input username	"valid_username"	Input displays in input field	As expected	Pass	
2	Input student ID	"valid_studentID"	Input displays in input field	As expected	Pass	
3	Input email	"valid_email"	Input displays in input field	As expected	Pass	
4	Input password	"<12Chars"	Input displays in input field	As expected	Pass	
5	Re-enter password	"<12Chars"	Input displays in input field	As expected	Pass	
6	Select Edit	-	"Password is less than 12 characters long"	As expected	Pass	

Test Case ID: 12 Test Designed by: Goh Hor	Goh Hong Xiang, Bryan					
Module Name: Edit Teacher Profile Test Executed by: Chong J	Chong Jing Hong					
Test Title: Edit Teacher Profile Test Execution Date: 31/10/20	31/10/2021					
Description Teachers can edit their profiles	Teachers can edit their profiles					
Pre-conditions: User must be a teacher and has already been logged in						
Dependencies:						
Post-conditions: The system notifies the teacher that their profile has been successfully edited	The system notifies the teacher that their profile has been successfully edited					

Step	Test Step	Test Data	Expected Results	Actual Results	Status	Notes		
1	Input username	"valid_username"	Input displays in input field	As expected	Pass			
2	Input email	"valid_email"	Input displays in input field	As expected	Pass			
3	Input password	"Valid_password123!"	Input displays in input field	As expected	Pass			
4	Re-enter password	"Valid_password123!"	Input displays in input field	As expected	Pass			
5	Select Edit	-	"Successfully change username, email, and password"	As expected	Pass			
Alternative Flows:								
1	Input username	"valid_username"	Input displays in input field	As expected	Pass			
2	Input email	"valid_email"	Input displays in input field	As expected	Pass			
3	Input password	"Valid_password123!"	Input displays in input field	As expected	Pass			
4	Re-enter password	"Another_password123!"	Input displays in input field	As expected	Pass			
5	Select Edit	-	"Password does not match"	As expected	Pass			
1	Input username	"valid_username"	Input displays in input field	As expected	Pass			
2	Input email	"valid_email"	Input displays in input field	As expected	Pass			
3	Input password	"invalid_pass"	Input displays in input field	As expected	Pass			
4	Re-enter password	"invalid_pass"	Input displays in input field	As expected	Pass			
5	Select Edit	-	"Please ensure that your password containsuppercase, lowercase, number, and symbols"	As expected	Pass			
1	Input username	"valid_username"	Input displays in input field	As expected	Pass			
2	Input email	"valid_email"	Input displays in input field	As expected	Pass			
3	Input password	"<12Chars"	Input displays in input field	As expected	Pass			
4	Re-enter password	"<12Chars"	Input displays in input field	As expected	Pass			
5	Select Edit	-	"Password is less than 12 characters long"	As expected	Pass			