**Teacher Login Feature** 

Feature	Player should be able to login and enter the Teacher's view		
Input	Keyboard and Mouse inputs	P	$\mathbf{F}$
Tests	Check username input is in database	X	
	Check password input correlates to username and is in database	X	
	Check if username is a Char string	X	
	Check if scene changes to Teacher's view	X	
Output	If the player's scene is what's expected, test passed; otherwise, failed.	the te	est

Student Login Feature

Feature	Player should be able to login and enter the Student's view		
Input	Keyboard inputs	P	F
Tests	Keyboard and Mouse inputs	X	
	Check username input is in database	X	
	Check password input correlates to username and is in database	X	
	Check if username is a Integer	X	
Output	If the player's scene is what's expected, test passed; otherwise, failed.	the to	est

**Answer Question Feature** 

Feature	Player should answer questions on the screen		
Input	Mouse inputs	P	$\mathbf{F}$
	Check if answer is selected	X	
	Check if question disappears from player's view	X	
Output	If the player's answer is what's expected, test passed; otherwise, failed.	the to	est

# Add Curriculum Feature

Feature	Player should add new problems and answers to the databa	se	
Input	Mouse and Keyboard inputs	P	$\mathbf{F}$
Tests	Check if Question is entered	X	
	Check if Answer is entered	X	
	Check if Programming language is selected	X	
	Check if Difficulty is selected	X	
	Check if Add Problem Button is selected	X	
Output	If the player's expected question and answer are in database, test otherwise, the test failed.	passe	∍d;

## **Edit Curriculum Feature**

Feature	Player should edit a question and save the edits		
Input	Mouse and Keyboard inputs	P	F
Tests	Check if the correct question was selected	X	
	Check if the question is editable	X	
	Check if the answer if editable		
		X	
	Check if the question and answer are saved in the database		
		X	
Output	If the player's edits were saved in the database, test passed; otherw test failed.	vise, t	he

**Student Progress Feature** 

Feature	Player should view student's progress		
Input	Mouse inputs	P	$\mathbf{F}$
Tests	Check if student's Java progress is scrollable	X	
	Check if student's Python progress is scrollable	X	
Output	If the student's progress is what's expected, test passed; otherwise, failed.	the t	est

## Select Student Feature

Feature	Player should select student to view progress		
Input	Mouse inputs	P	F
Tests	Check if student list is viewable	X	
	Check if student is selected from list	X	
	Check if student progress scene is reached	X	
Output	If the player's selection is what's expected, test passed; otherwise, t failed.	the to	est

Walking Feature

Feature	Character Should Walk on Horizontal-Axis		
Input	Mouse inputs	P	F
Tests	Check which key is pressed	X	
	Check when A or Left direction key is pressed, and the character moves to the left.	X	
	Check when S or Down direction key is pressed, and the character moves down.	X	
	Check when D or Right direction key is pressed, and the character moves to the Right.	X	
	Check when W or Up direction key is pressed, and the character moves to the left.	X	
	Check the other keys do not move the character.	X	
	Check if the character collides with the screen boundaries.	X	
Output	If the player's positions are what's expected, test passed; otherwise, t failed.	he te	est

**Question Feature** 

Featu	Player should answer questions on the screen		
re			
Input	Mouse inputs	P	$\mathbf{F}$
$\overline{Tests}$	Check if player collides with the 'treasures'	X	
	Check if question is viewable	X	
	Check if answers are viewable	X	
Output	If the question is what's expected, test passed; otherwise, the test fail-	ed.	

## Results Feature

Featu	Player should see their results from the game		
re			
Input	GameManager.cs inputs	P	$\mathbf{F}$
$\overline{Tests}$	Check player's selected answer is stored in GameManager	X	
	Check player's questions is stored in GameManager	X	
	Check question's explanation is stored in GameManager	X	
	Check questions correct answer is stored in GameManager	X	
	Check results are scrollable	X	
Output	If the player's results are what's expected, test passed; otherwise, t	he to	$\operatorname{est}$
-	failed.		

#### \*Testing Format (Rosenfield Boeira, 2017).

#### References

Rosenfield Boeira, J. (2017). An Inception in Practice. In J. Rosenfield Boeira, Lean Game Development: Apply Lean Frameworks to the Process of Game Development (pp. 23-32). Berkeley, CA: Apress.