



Test case specification

Test Case Identification	TCS_Web_01
Test Condition	Web01
Test Basis	Req01

Purpose

This test case verifies that when more than one player submits a score for a completed game, the results of those games are visible on the website.

Test Items

API end points: `/tetris/games` and `/tetris/games/{id}`

HTML pages: `/tetris/games/static`

Environment Needs

The tester's machine needs a current web browser¹ and must have `curl` installed.

The test can be run against a local or remote version of the API. This document assumes a local copy of the API, URLs using `localhost` should be changed the appropriate machine name if a remote copy of the API is tested.

The `security.txt` file for the API should contain the following:

```
user1user1
user2user2
user3user3
```

In documenting this test case, we've assumed an empty database at the start of the test, but the test can be run with existing data. In the case of existing data, the tester must exercise more care to ensure that the new results are displayed properly.

¹ Real applications need to specify exactly which browsers(and versions) they support and tests may need to be run against multiple browsers.

Input Specifications

Step 1: Generate three game ids

```
curl -i -X POST http://localhost:8080/tetris/games
```

Note the resulting game id 1: _____

```
curl -i -X POST http://localhost:8080/tetris/games
```

Note the resulting game id 2: _____

```
curl -i -X POST http://localhost:8080/tetris/games
```

Note the resulting game id 3: _____

Step 2: Submit results for three games

In this step, replace <gameid1>, <gameid2>, <gameid3> with the ids recorded in the previous step. Be sure to replace both occurrences of gameid in each submission.

Also note that the X-SENG275-Authentication header changes between each of the three submissions.

Items that change between submissions are bolded for emphasis.

```
curl -i -H 'Content-Type: application/json' -H  
'X-SENG275-Authentication: user1' -X PUT -d '{"id":<gameid1>,  
"score":100, "lines":10}'  
http://localhost:8080/tetris/games/<gameid1>
```

```
curl -i -H 'Content-Type: application/json' -H  
'X-SENG275-Authentication: user2' -X PUT -d '{"id":<gameid2>,  
"score":200, "lines":20}'  
http://localhost:8080/tetris/games/<gameid2>
```

```
curl -i -H 'Content-Type: application/json' -H  
'X-SENG275-Authentication: user3' -X PUT -d '{"id":<gameid3>,  
"score":300, "lines":30}'  
http://localhost:8080/tetris/games/<gameid3>
```

Output Specifications

Using a web browser, navigate to the url:

<http://localhost:8080/tetris/games/static>

The web page should display a score for each user:

275 Tetris					LEADERBOARD	LOGS
DATE	USER	GAMEID	LINES	SCORE		
2018/06/13 11:31:59	use__er1	1	10	100		
2018/06/13 11:32:00	use__er2	2	20	200		
2018/06/13 11:32:01	use__er3	3	30	300		

Note that the dates will change depending on when the test was run.

Verify that:

- There are three distinct users
- There are three different game ids
- Each game's score, lines and gameid matches with the submitted user