Palo Alto Networks

Test plan (web server)

1. **Introduction**

This file is a content of test strategy for a web server.

The web server implemented by a Linux executable file and it has data for players, their names and their ids, and it has a simple API request as a gate for this data.

The web server has one way to get the players data, this way is by use HTTP REST API on local port, This API allows quiring database of players, and it composed of some parts:

* Page index
* Username
* Password

And the response is a JSON array, each object composed of a simple JSON object - tuples values:

* player name
* player ID

**1.1. Scope**

**1.1.1. in Scope**

The features that we get validate in this scope are the REST API request and its response.

**1.1.2. out of scope**

Tests that NOT contained in this scope

- Interface testing

- Compatibility testing

* **Security test cases**
  + *Send the request with specials characters in page index*
  + *Expected: should be an appropriate error message that specials characters isn’t allowed*
  + *Send the request with DELETE/POST/PUT TYPE and suite body*
  + *Expected: this action shouldn’t be allowed*
  + *Send the request and wait more than 15 minutes*
  + *The session should be killed automatically*
* *Credentials test cases*
  + *Send the request with wrong username and wrong password*
  + *Expected: response is unauthenticated*
  + *Send the request with right username and wrong password*
  + *Expected: response is unauthenticated*
  + *Send the request with wrong username and right password*
  + *Expected: response is unauthenticated*
  + *Send the request with right username and right password*
  + *Expected: shouldn’t be problem with authenticate*
* ***Performance tests cases***
  + *Send the request and verify the response time*
  + *Expected: the response time shouldn’t be more than 1 second*
  + *Send a lot of requests in the same time*
  + *Expected: each request should have a valid response*
* ***Useability tests cases***
  + *Send the request with illegal page index*
  + *Expected: should be an appropriate error message*
* ***Functionality test cases***
  + *Send the request*
  + *Expected: in the response, all the names or Ids are not empty or nulls*
  + *Send the 2 requests with tow page indexes*
  + *Expected: No tow names with the same id*