Plugin Review

local_testaccount_automation

For
UCL
by
Catalyst IT Europe Limited

Version: 1.0

November 2020

Commercial in Confidence

catalyst

open source technologists

Table of Contents

Revision History			
Modified By	**Date**	**Version**	**Change**
Conn Warwicker	10 November 2020	1.0	Retrospective Review

1 Introduction

1.1 Overview

The following review of the local_testaccount_automation plugin has been carried out in accordance with our Code and Deployment Process Standard.

1.2 Summary

The plugin local_testaccount_automation falls into the ● **Low Risk (Green)** category and can be deployed to your service.

> **About Our Plugin Review Risk Ratings**
>
> ● **Low Risk (Green)**
>
> The plugin is free from any noticeable issues. Performance impacts are unlikely and no security threats are present. The plugin is well maintained by the third party maintainer.
>
> **Plugin may be deployed to your service.**
>
> ● **Medium Risk (Amber)**
>
> The plugin review has presented concerns or issues with the plugin. It may show potential performance issues or be poorly maintained by the third party maintainer.
>
> **The plugin may be released to your service but Catalyst reserve the right to remove it without warning and without permission, should it place our SLA at risk.**
>
> ● **High Risk (Red)**
>
> The plugin review has identified issues in the plugin, most likely related to security or performance. You will receive clear reasoning in your plugin review document.
>
> **The plugin is not authorised for use on your service until issues are fixed.**

1.3 Plugin Overview

This is an internal plugin written by UCL. It appears to provide a form which allows users to create a set of test accounts and enrol them onto a course. It allows you to choose how many accounts, what their passwords should be and how long to keep them active, before their data is deleted.

Item	Result
Version	2018121700
Release	1.2

Item	Result
Requires	2017110800
Usage	UCL
Author/copyright holder	UCL
Online reviews	N/A
Compatibility	N/A

2 Review Results

2.1 Security

There do not appear to be any major security issues, a few minor ones which were found are:

- Some files missing MOODLE_INTERNAL check
- Uses backup course capability to check permission to see navigation link, rather than using its own capabilities
- Not necessarily a security issue if role permissions are setup correctly, but the printed list of test accounts links to the wrong profile pages.

Item	Result
Permissions	Permission checks are done. However, as noted above, the navigation link uses a different capability to check.
Authentication	Form checks that the user is logged in before doing anything.
Form inputs	Data is inserted into the database using standard API methods and Moodle functions.
Other inputs	N/A
External data in HTML	OK
Cross site scripting	OK
SQL parametrised	Data is inserted into the database using standard API methods and Moodle functions.
Data exposure	OK
Shell commands	OK
CSRF	User creation form uses standard Moodle form, so includes session check.
Data leakage	No data leakage observed.

Item	Result
Transmission to third parties	N/A

2.2 Coding Quality

Code was clearly written a while ago (2014 by the look of the comments) and as such could do with a tidy up, but functionally it still works.

Item	Result
Outstanding bugs upstream	N/A
Installation	OK – Installed without any errors
Notices seen	No notices seen.
Basic functionality	Basic functionality seems to work. Test users can be created on a course, up to a limit of 15. However, the test users do not appear to have permissions to do much on the course, e.g. cannot view forums or assignments. Unsure if that is intentional or not. Scheduled task deletes expired test accounts.
Admin functionality	N/A
Backup	N/A
Restored	N/A
Removed	OK – Uninstalled without any errors
Coding standards violations	A TOTAL OF 233 ERRORS AND 168 WARNINGS WERE FOUND IN 10 FILES
Abstraction	Abstraction is generally okay. Plugin makes use of classes and objects. Functions are not particularly long.
Unit testing	Not checked
Side effects	No side effects noted.
Code documentation	Commenting across the plugin is acceptable, though could use a tidy up and update to docblocks.

2.3 Performance

No performance issues noted.

Item	Result
Really big synchronous jobs	OK
Database killing queries	OK
Page response time	OK
Disk usage	OK

3   Review Environment

Item	Result
Plugin name	local_testaccount_automation
Plugin git hash	5c2e567fe1804d163ac0076fbb5020dd233ce858
Plugin upstream repository	ssh://reviews.ci.catalyst-eu.net:29418/moodle-local_testaccount_automation
Plugin repository	ssh://reviews.ci.catalyst-eu.net:29418/moodle-local_testaccount_automation
Main git hash	7a7da0ff195800fe991af23df8c59d46736162a6
Main git repo	ssh://reviews.ci.catalyst-eu.net:29418/moodle
Database version	mysql (5.7.27-0ubuntu0.18.04.1)
Database character encoding	utf8
Database dump date	N/A
Site data dump date	N/A