Update Existing Moodle Plagiarism Plugin

Background

We provide plagiarism detection as a services (SaaS) in various language. We provide our clients with a Moodle plugin. The plugin does two main functions: [1] send us files to check and [2] receive the plagiarism report and grade. It has four secondary functions that we use internally. We call them request-1, request-2, request-3, request-4.

We have not been satisfied with the quality and speed of work our programmer has provided, so we plan on letting her go. We're looking to establish a long term relationship with a reliable vendor who will provide high quality work in a timely manner.

Assumptions

1. Plugin will work with all Moodle version 3.7 and up. Compatibility with previous Moodle versions is nice to have but not required.
2. You have all the necessary tools and environments to do development and unit testing.
3. We'll provide you the latest plugin version we have, and a test environment for functional testing.
4. All functional testing that execute against our server must be coordinated ahead of time because our plagiarism checker test server isn't always on.
5. We will conduct at least one conference call

Intellectual Property

1. Being awarded this job means you agree to not to disclose any of the work or software to any 3rd party.
2. You agree that you are doing "work for hire" and all intellectual property stemming from this work belongs to me, not to you.

Work to be done

The current plugin requires enhancements as follows:

1. Add localization language file (provided by me)

2. Updates to **request-1** (deleting requests and resubmitting files)
   a. Make the default sorting by elapsed days ascending order

   b. Styling updates to clarify what is searchable and why there is sometimes no resubmit button displayed like for files that aren't whitelisted

   c. Verify sorting, filtering and resubmit after works as it should.

3. Update what is captured in log file

   a) Add divider or blank line between entries so all data related to a particular upload is clear.

b) Log if successfully retrieved the course setting in upload functions

c) Log if successfully retrieved the server and key in upload functions

d) Log User when enter upload functions in case it doesn't upload and then doesn't print the details to the log at that point.

e) Note when course setting of plagiarism is updated (which isn't logged at all now) (or possibly add table with timestamp for this to log each time a lecturer changes a course setting).

f) In logging function send email if can't write to log file.

g) Clarify some text (ex, rather than 'the file id is', 'the Moodle file id is')

4. Lecturer screen (lib.php and tokens files)

   a. Add unique unprocessable messages so can tell which case is printing the Unprocessable message.

   b. Display a code such as 900 through 910 when detect an anomaly on the plugin side. Display code 901 if the extension is not allowed. Display code 902 if no response record is found (either because file never got uploaded or because it wasn't yet processed on the server), and there is also no request record found. If the plagiarism server returned a grade above 950, display "unprocessable" to the teacher.

   c. Leave the message location as is. Can be in-line with the description (Unprocessable) or could replace the originality grade without the percent sign.

Below is a sample lecturer's screen with Originality grade and / or message

Status	Grade	Edit	Last modified (submission)	File submissions	Submission comments
Submitted for grading	Grade -	Edit ▾	Thursday, 12 December 2019, 12:11 PM	W Test file 01.docx Originality:In process 12 December 2019, 12:11 PM W Test file 02 Originality:In process 12 December 2019, 12:11 PM	▶ Comments (0)
Submitted for grading	Grade -	Edit ▾	Tuesday, 7 January 2020, 5:08 PM	Incêndio na Austrália (Portuguese).txt Originality:100% 7 January 2020, 5:08 PM	
No submission	Grade -	Edit ▾	-		
Submitted for grading	Grade -	Edit ▾	Saturday, 29 February 2020, 3:16 PM	W The biography of Peter Pan Originality:95% 27 February 2020, 6:12 PM	