# Moodle Scorm Player Missing cmi.interactions.\* Data

#### **OVERVIEW**

The moodle scrom player unable to save some of the <a href="mailto:cmi.interactions.\*">cmi.interactions.\*</a> data, especially for keys:

- 1. cmi.interactions.[n].learner\_response
- 2. cmi.interactions.[n].correct\_response.[n].pattern

In which leading the moodle unable to produce the <a href="mailto:cmi.interactions.">cmi.interactions.</a> <a href="mailto:cmi.interactions">[n].result</a> data.

## STEPS TO REPRODUCE THE BUG

- 1. Open any scorm that has assingment or question-answer as part of the contents.
- 2. Do the scorm until complete.

#### **EXPECTED RESULT**

Any performed/required cmi.interactions.\* data base on the scorm is stored properly.

## **ACTUAL RESULT**

Not all the performed/required <a href="mailto:cmi.interactions.\*">cmi.interactions.\*</a> data is stored. Missing some of the required data.

#### **FINDINGS**

- Moodle scorm player uses the ^[\\w\.]{1,250}\$ regex pattern to resolve the value cmi.interactions.[n].learner\_response, cmi.interactions.
  [n].correct\_response.[n].pattern and other related cmi.interactions.\* data.
- 2. The ^[\\w\.]{1,250}\$ regex pattern unable to resolve the cmi.interactions.\* value if the value is contains any special regex characters, including: . , +, \*, ?, ^, \$, (, ), [, ], {, }, |, \, , -.
- 3. The . is special case since the regex pattern including the \. to also include the . .
- 4. Base on the regex pattern if the values that the scorm need to resolve is including the special regex characters then the evaluation result is **failed** and make the value is empty or NULL. Example the following scenario of the available answers for choice type quesions that will failed the regex pattern evaluation:
  - a. C. Brown-black discolouration of the nail bed appearing as a streak or irregular pattern
  - b. D. CUBED: Colour Uncertain Bleeding Enlargement Delay
  - c. C. Hutchinson sign and micro-Hutchinson sign

- d. A. The Result Of (X)? is true
- e. B. The result of 1 + 1

# **RESOLUTION**

- 1. We are unable to modify the \( ^[\\w\.]{1,250}\\$ \), because the pattern is also used to resolve others \( \text{cmi.\*} \) data, if we modify it, there is high possibility that will affected the other scorm process and make the scorm player not working as expected.
- 2. We recommeded to not including any special regex characters, in the available answers for choice base questions that need the user interactions.