Group: DS603-2019-06

Project Code: MOODLE-1

Project Name: XML checker plugin for Moodle.

Project Description: Create Moodle plug-in for automatic evaluation of XML documents.

Abstract:

Moodle is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalised learning environments. Moodle is used for blended learning, distance education, flipped classroom and other e-learning projects in schools, universities, workplaces and other sectors. Moodle uses various plugins to assess the tests that are uploaded by the professors.

The problem with existing system is that the professor has to manually evaluate the XML tests. In this project our team intends to develop a XML validator plugin that will automatically evaluate XML schema and XML instance documents. This plugin, if it satisfies Moodle test requirements, will be a open source contribution to Moodle from International Institute of Information Technology, Bangalore.

Use Cases:

1. Given XML schema or XML instance, check the well-formedness of these documents.
2. Given a XML schema, check the validity of the instance document based on given schema.

Objectives:

1. Give flexibility to the professor in uploading either schema document or test instances to be validated.

2. Given XML schema document, automatically generate test cases that will be evaluated against the student's schema document.
3. The professor can directly upload test cases, in which case, uploading schema document is not necessary.