For teaching and development help

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Auto Assignment Evaluation

Project Domain/Category

Web Application

**Abstract / Introduction**

Assignments are a great tool to assess the knowledge of students that they studied. In online learning systems the number of students are huge. So, marking of a large number of assignments is very difficult and time-consuming activity. Automated assignment evaluation system can help us to mark assignments quickly and efficiently. AAE is an AI based application that will check the programming assignments of C++ language on the basis of different already defined rules.

**Functional Requirements:**

**Following are the some functional requirements of the required application.**

•Provide an interface to teachers to upload assignment task in the form of MS Word document.

•Provide an interface to students to download assignment task file.

•Students should be able to upload solution code file only in .CPP format.

•Application should be able check the syntax errors and provide the feedback of errors in the

form of comments.

•Teacher can define the evaluation criteria of each uploaded assignment which includes

functionality and quality of code.

•The application should have automated testing of correctness of the submitted solution on

the basis of rules provided by teacher.

•The application should be able to execute the code and test it with predefined inputs and

expected outputs.

•The application should auto generate feedback for students, highlighting errors, suggesting

improvements, and providing a grading rubric.

•The application must be able to evaluate at least C++ code.

•The application assign marks to each assignment on the basis of calculation on predefined

assessment criteria and rubrics.

•The application should be web based which can be integrated to any LMS later.

•On declaration of result, students should get notification on their account.