



Motivation Letter

Many universities in the world suffer from the failure to allocate sufficient budget to create special educational platforms for each of them, as such universities forced to use open platforms such as the Moodle, and sakailms platforms in distance learning, especially with Corona Pandemic. Unfortunately, these platforms use low level of prediction against cheating. Therefore, Some of these challenges that platforms face:

1. Cheating Control which led to the cancellation of the academic differences between students, reducing the credibility of the exam and don't measures the capabilities of students.
2. They don't provide the necessary privacy for students or professors.
3. The students could not be able to continue the exam in case of dis-connectivity of internet.

Based on these challenges, we propose DigEdu_Proctoring Exam to solve these challenges. DigEdu_Proctoring Exam work and plugin with Moodle, and it can be transferred to other open source Learning Managment System (LMS). It will use identification methods and artificial intelligence algorithms for video matching and image processing. (focusing on eyes movement detection) to guarantee the best level of security and privacy. In addition, to solve internet issues Encrypting Exam on a local server before it reaches the test station is proposed.