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A Cross Platform Application Programming Interface for Learning Management System

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Technological ubiquity has proliferated in our midst to the extent it is part of our daily lives; academics not exempted. The needs for connectivity, convergence of technological infrastructure and cross platform interoperability have necessitated the development of cross platform application interfaces to aggregate information and manage tasks in our environments. This project examined the design features of two learning management systems Claroline and ATutor, designed, developed, implemented, and evaluated the functionality of a cross platform application programming interface in those two learning environments. The successful evaluation of the functionality of the project is of benefit to other platforms such as e-commerce. The development approach was agile with strict adherence to extreme programming software development life cycle. The study environment was the two learning management systems configured at Kibabii University, in such a way that a team of Information Technology students utilized the Application Programming Interface with Claroline while the Computer Science team worked with the ATutor platform. Questionnaires were distributed to both groups of students to evaluate and ascertain the system's functionality. In conclusion the system worked well with the need to incorporate more features from the two LMSs, such as notifications from chats and forums on topical issues trending and are of interest to the user according to his/her defined profile. I recommend that the functionality be extrapolated into the mobile bound applications such as WhatsApp, since the environment today is moving towards the mobile environment.