

Abstract

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ABSTRACT

In this day and age, modern technologies have started to change how things work. Many institutions have begun implementing a sophisticated curriculum and teaching and learning system in the academic field. This system helps immensely reduce teacher workload and simplifies primary operations such as marking student reports. It is also beneficial to have this online system in situations such as the pandemic. While the scope of this sophisticated system is more significant than ever, some still don't have the luxury to experience it. These institutions that still do some of their operations manually did not have the resources to upgrade to the modernized system. Moreover, private institutions like SMAS MUHAMMADIYAH 1, located in Banda Aceh, Indonesia, have more challenges since the government will not be accommodating in this case. In this case, they will more likely fall behind in technological advancement. Thus, a web app system that has functions to convert all of those manual operations to be done more efficiently is needed. This web app will provide some of the most critical tasks in managing students' academic data, such as managing academic reports, marking students, checking attendance, creating and viewing timetables, managing students' tuition records, and managing teacher and student information. In this project, the methodology used to develop the system is the Agile methodology. The project requirements are also provided using Unified Modelling Language (UML), such as use case diagrams and sequence diagrams. These requirements will be available in the Software Requirements Specification. The design of the system is also provided in the Software Design Document. At the same time, the future testing plan will be documented in the Software Testing Documentation.

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