ABSTRACTION

Deby Shane Amran (12170289), Design of an Integrated Web-Based E-Learning Information System at Madrasah Ibtidaiyah Asy-Syarifiyah Dawuan Barat

Industry 4.0 is the name of the trend of industrial automation systems, where there is an exchange of the latest data in factory technology. This term includes physical cyber systems, the internet for all activities, cognitive computing and other network-based activities. An electronic learning system or e-learning a form of information technology that is applied in education in the form of a website that can be accessed anywhere. Madrasah Ibtidaiyah As-syarifiah Dawuan Barat is one of the educational institutions established by the Asy-Syarifiyah Dawuan Barat Islamic Education Foundation. The teaching and learning process that takes place at the Madrasah is the same as other educational institutions, which involve teachers and students. The teacher teaches students from Monday to Saturday. Teaching and learning process takes place in class, the teacher conveys the material and students do the assignments given by the teacher in writing. Based on the identification of the problems that the authors describe, we need a web-based integrated e-learning information system to facilitate the teaching and learning process at Madrasah Ibtidaiyah Asy-Syarifiyah Dawuan Barat. In developing information systems a model of a software engineering process is chosen based on the nature of the project and application, the methods and tools used, and the required controls and deliverables. For this reason, the prototype model is suitable because it makes it easy for customers to understand the technical requirements and specifications of the desired requirements in detail.

Keywords: information system, e-learning, prototype