

# **IMPLEMENTASI *E-LEARNING* BERBASIS *WEB* MENGGUNAKAN *FRAMEWORK CODEIGNITER***

*(WEB-BASED E-LEARNING IMPLEMENTATION USING FRAMEWORK CODEIGNITER)*

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## ***ABSTRACT***

*The online learning system (e-learning) is an innovation in learning patterns in schools. The policy of reducing face-to-face learning due to the corona virus pandemic has limited the time, place and number of meetings between teachers and students at MTs Miftahul Ulum. Teachers experience obstacles in delivering material to students, on the other hand students also cannot receive material or explanations from the teacher optimally. Based on the problems that arise in the learning methods at MTs Miftahul Ulum, an online-based learning system is created so that it can help the learning of teachers and students at MTs Miftahul Ulum. This online learning system (E-Learning) was developed using the waterfall method. The system design tool used is UML (Unified Modeling Language) which includes Use Case Diagrams, Class Diagrams, Sequence Diagrams, and Activity Diagrams. This system is built using the web-based CodeIgniter framework and MySQL as a database. The online learning system at MTs Miftahul Ulum provides material, assignments, and information about the school so that it can provide solutions to learning patterns for teachers and students due to the limitations of face-to-face learning in schools..*

**Keywords :** *E-Learning, Learning, CodeIgniter, School.*

## **ABSTRAK**

Sistem pembelajaran *online (e-learning)* merupakan salah satu inovasi dalam pola pembelajaran di sekolah. Kebijakan pengurangan pembelajaran tatap muka karena pandemi virus korona membuat keterbatasan waktu, tempat, dan jumlah pertemuan antara guru dan murid di MTs Miftahul Ulum. Guru mengalami hambatan dalam menyampaikan materi kepada murid, sisi lain murid juga tidak bisa menerima materi atau penjelasan dari guru secara maksimal. Berdasarkan masalah yang muncul dalam pola pembelajaran pada MTs Miftahul Ulum maka dibuatlah sistem pembelajaran berbasis daring agar bisa membantu pembelajaran guru dan siswa di MTs Miftahul Ulum. Sistem pembelajaran online (*E-Learning*) ini dikembangkan menggunakan metode waterfall. Alat bantu perancangan sistem yang digunakan adalah UML (Unified Modeling Language) yang mencakup Use Case Diagram, Class Diagram, Sequence Diagram, dan Activity Diagram. Sistem ini dibangun menggunakan framework CodeIgniter berbasis web dan MySQL sebagai database. Sistem pembelajaran online di MTs Miftahul Ulum menyajikan materi, tugas, dan informasi seputar sekolah sehingga dapat memberikan solusi pola pembelajaran bagi guru dan murid karena keterbatasan pembelajaran tatap muka di sekolah.

**Kata Kunci :** *E-Learning, Pembelajaran, CodeIgniter, Sekolah*