

ABSTRACT

Management of materials and assessments at LPK Cipta Kerja DPN Perkasa Jateng relied on a manual system. This approach often encounters challenges such as misplaced records, lengthy grading processes, and the risk of recording errors. This made the management process ineffective and burdensome for instructors and administrators. To address these issues, a web-based application for managing materials and assessments was developed. The main features included material and assessment management by instructors, student access to materials, grades, and transcripts, as well as the administration of assessment components by administrators. The application was designed to simplify material and assessment management, provide students with access to materials and assessment results, and facilitate the administration of assessment components for a better evaluation system. The development process followed the ICONIX Process methodology, consisting of several stages such as requirements, analysis/preliminary design, detailed design, and implementation. This methodology was chosen due to its focus on transforming use cases or requirements into code, ensuring that the developed application met requirements. The testing phase employed the black box testing method to verify that all features functioned as specified and met established requirements. The results of the testing, conducted with the institution's IT team, demonstrated that the application successfully fulfilled user needs with optimally functioning features.

Keywords : Learning Management System (LMS), learning materials, assessment, ICONIX Process, web-based application