

ABSTRACT

The security of digital document data is a crucial aspect of PDF document management, especially in an on-premise environment that ensures full control over data without involving third-party cloud services. This final project aims to design and implement a web-based PDF processing application in an on-premise environment as an effort to enhance document data security. The application is equipped with key features such as Compress, Split Page, Merge Page, Signature Certificate, Digital Drawing, and Watermarking to support comprehensive document management needs. In the development of the user interface (UI), the User-Centered Design (UCD) method is applied to ensure a design that aligns with user needs and comfort. The technologies used include React.js and CSS for the front-end and Laravel for the back-end. With this approach, the resulting application is expected to provide optimal data protection and a good user experience. Testing results indicate that this application successfully meets user needs in terms of functionality and the implemented data security aspects.

Keywords: Data Security, Document Management, On-Premise.