ABSTRACT

Along with the development of information and communication technology is rapidly

increasing, it should be more media information that does not use paper (paperless) in its

delivery, mail is one of the example. Mail is a media to send information which has a format of

writing and delivery procedures that must be considered. Mail also must have a compact storage

media. Sometimes also a mail is an authentic evidence which must have valid identification.

Therefore, we need an application system that has all the elements contained in a mail, has a

format of writing, has a dynamic storage media, and have a valid ID.

e-surat is an application implemented in an agency (in this case the campus IT Telkom, in

particularly the Faculty of Electrical and Communications) and will facilitate the parties

involved in them in managing the mails to be issued by that agency. This study used digital

fingerprint algorithm (Digital Signature) as a complement to the security of this system.

To support the process of correspondence on campus IT Telkom Bandung, especially in

the Faculty of Electrical and Communication, the authors make web applications that can

support the process of such correspondence. In designing the authors use the programming

language PHP and MySQL.

This final project will have a delivery system based on hierarchy, thereby providing

convenience in controlling the circulation of the letter. This application will also have a dynamic

storage medium that will allow a user to access the mails that have been issued and select the

format of the required mail. This application will also have a valid identification (digital

signature) using RSA algorithm, so it can serve as strong evidence of authentic.

Keywords: mail, PHP, MySQL, hierarchy, digital signature, RSA

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