ABSTRACT

For a developer, the making of an application license is a difficult thing to be

applied, its proven with a lot of software piracy. There are many solution offered to make

an application license, one of it by using XML digital signature. Its only handling data

originality, thus need an encryption technique that can protect its content from XML

digital signature. The reason why using XML is because XML is very flexible, that can

make a data switch between different application.

This final Assignment objective is to find a way applying XML digital signature

on application license, then encrypted to that digital signature, and measure the time to

encrypt and decrypt. To make the objective, it will doing an XML digital signature

applied at the application license by making a module that check legality of an XML

document, then applying RSA encryption algorithm to the digital signature, then

measuring time to encrypt and decrypt at client side and server side and make a

consideration using different key length.

By using XML document as an application license, then we as a developer can

arrange everyone who will using the application and how long they will use it. A digital

signature XML document contents something unique to every client as a client *Harddisk*

Serial Number, then it will be hard to copied or changed.

Keyword : license, RSA, XML digital signature, Harddisk Serial number.

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