

ABSTRACT

The rapid development of the internet causing a larger possibility of the softwares distribution easier, and enable the software user of directly downloading from the software maker site in internet or gaining them throughtout the software distribution sites.

By that uncomplicated distribution system, in the future there will be some new problems appear, in case how to keep the originality of the software and also how to restrict the software functionality in order that could be accessed by the authorized particular user.

This final project analize and implement the utilization of digital signature on overcoming abovementioned problems using the RSA algorithm for the digital signature and SHA-1 for one way hash function. The software that going to be protected (*.exe) filled with the function on determining the originality and registration.

The system that has been developed in this final project namely in three main part, they are the software which will be assigned have been implemented by Delphi 7, the assignment software have been implemented by Delphi 7, and the software for registration have been implemented by PHP 5.0.4.

Keyword : Software, Digital Signature, RSA, SHA-1, Delphi 7, PHP 5.0.4