Abstract

The rapid growing of information technology today makes mobile application development is more preferable because its has simple user interface and still gives the maximum functionality. Webservice becomes the choice for the mobile application to retrieve all kind of informations from the server. Mobile application that built with phonegap can be made by using the web based programming language such as html, css and javascript. For the application that built using the web programming language, it can use the javascript for doing the data exchange between mobile application and server.

The information of accessed webservice and the mobile application logic process is placed in javascript file inside the mobile appication. User can install the mobile application in mobile device that want to use it. The javascript file that contains webservice credential and application bussiness logic become vulnerable if anyone could read it. When anyone can read the unprotected javascript file, then the reverse-engineering process could possibility happen.

This research is making javascript protection system within the mobile application so when somebody grant access to the javascipt file in mobile application, he cant read it and cant performing the reverse-engineering process because the javascript is protected using the encryption algorithm advance encryption standard.

The application thats made in this research are mobile application that using the encrypted javascript, server decription application service, and encryption application that encrypt the javascipt file and insert it to the html file.

Keyword *: Javascript Protector, Advance Encryption Standard, Rijndael, Reverse-Engineering, Mobile Application, Phonegap.*