

## ABSTRACT

User authentication mechanisms are critical to access the information. User authentication mechanisms are found when going into the user Account on a particular website. At the time of the authentication process required a password to verify the legality of the true owner.

To support such a thing in this final project aims to create a mechanism of authentication system that can be accessed to the web Account using an image used as a password, can be called Graphical password. Graphical password authentication method used in this system cued click points. Click cued point that the user clicking a point coordinates in pixels of an image, this system authentication mechanism using three images where the user must click on a point on each image to obtain graphical password. This final project focuses create a prototype mechanism graphical password authentication system on the web Account.

In this thesis focused to analyze the methods cued click point is the level of accuracy, effectiveness, user memory, input time password to the system, and whether the system can be penetrated SQL-injection or not. The test results on a system that has been built shows that this system has a value of recall, precision, and accuracy of 100% and the error rate of 0%. Execution time system gained an average time of 0.002587908833634620 ms to 45 tries. User managed to remember a password with an average time of 20.83 seconds input. And the system also shows the response can not be penetrated by the SQL-injection.

Key word : *Graphical password, Cued click points, Authentication System*