ABSTRACT

Batik is one of the cultures of Indonesia that must be preserved so as not taken over by other countries. One way to keep the batik is to develop some motifs for the batik itself. There are many patterns that can be applied as batik motifs, because Indonesia has a diversity of cultures.

There are various types of orchids in Indonesia and each orchid has its own distinctive shape and color. With the unique shape and color of the orchid it can't be rejected that the orchid is a thing that can be one of the motives of batik currently.

Orchid reef applications as batik motifs are carried out using the L-system method which is implemented in a web-based application. This application is expected to help preserve batik culture and art so that it continues to develop and has a variety of motives. The purpose of this study was to develop batik motifs using the L-System method implemented in web-based applications.

There are two tests carried out in this Final Project. First is the Alpha Test, by changing the backgorund color, ornament batik color, orchid motifs color, distance between tree, stem length, leaf length, flower length, and flower stalk length to produce shapes according to the user input parameter based on the system that has been made. The next test, namely beta testing found the similarity of orchid motifs with native orchid around 77% and the feasibility of orchid shape as the main motive of about 63% obtained from respondents. It can be concluded that the density of orchid motif patterns must be clarified and more varied colors and adjusted between the background color, color of the ornament, and the color of the orchid motif to make it more beatiful.

***Key Word**: Batik, Coeloseris mayeri, L-System, Web Aplication*