LANGUAGE LABORATORIUM APPLICATION

BASED ON JAVA MEDIA FRAMEWORK

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Abstract

Nowadays, the development of technology more facilitate people to obtain information in digital format documents. Ease of access to digital documents give a large impact for an action in document forgery. Therefore, the watermark can be used as a method to protect the copyright ownership of the intellectual property that is available in the format of digital documents.

This final project presents a method of digital watermark on documents that utilize parametric equation to generate a pattern that is unique watermark based on the documents number. Parametric Equation used based on trigonometric functions and the concept of Lissajous curve equation. In addition, the document number that are the characteristic of a digital document will be the parameter value on the equation that affect the form of watermark pattern.

Watermark method is implemented on a web-based applications that use ASP.NET framework Devexpress. The form of watermark pattern will be drawn on the Xtrareport canvas which is one of the Devexpress framework component.

Keyword: Java Media Framework, JMF, Java, Language laboratory