

The 4th International Scholars' Conference – Universitas Klabat

Paper 180 – Technology

THE DESIGNED APPLICATION TO EVALUATE PIANO PLAYING USING A FAST FOURIER TRANSFORM (FFT) ALGORITHM BASED ON ANDROID

Raissa Maringka , Hendriawan Jumawan and Green Mandias

Universitas Klabat

raissamaringka@gmail.com, jumawanhendri@gmail.com, green@unklab.ac.id

ABSTRACT

The purpose of this study resulted in a design application evaluation piano using Fast Fourier Transform algorithm based on Android for users who are learning piano. The design of application uses a software engineering processes with prototyping as a process model. The modeling of the application is using the Unified Modeling Language (UML). This application applied FFT algorithm which is capable to convert a signal sound into a frequency sound. There are three main features of this application. The main features are Select Song, Record Song and Evaluation. The User Interface of this application has six views, there are main menu, evaluation, song evaluation, choose song, record song and result. This research brings a conceptual application as a description of how this application will work.

Keywords: Application evaluation piano, Fast Fourier Transform, Prototyping