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EMBEDDED JAWI SCRIPT GENERATOR

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INTRODUCTION

Jawi knowledge is becoming an important language not only for the adults but also for growing children to learn Jawi at the initial stage of their life. This project basically is to study and develop an Embedded Jawi Generator Software which generates Jawi script easily. The user could choose and enter Jawi scripts and learn each of the script. The sum of scripts was from alif until yaa, approximately about 36 scripts with the colorful button. This system also functions as an interactive system that will attract users especially kids. The Jawi Generator Software is developed using java language in Linux operating system (Fedora). This software will be running on UP-NETARM2410-S Linux. Later the performances of Jawi Generator System are investigated in terms of its accuracy in displaying the words, and also board performances.



Figure 1: UP-NetARM2410-S Linux board

Character	Isolated	Initial	Medial	Final	Name
ا	ا	ا	ا	ا	alif
ب	ب	ب	ب	ب	ba
ت	ت	ت	ت	ت	ta
ث	ث	ث	ث	ث	tsha
ج	ج	ج	ج	ج	jim

Figure 2: Sample of Jawi Scripts



Figure 3: User Interface for Embedded Jawi Script Generator

NOVELTY OF THE PRODUCT

- Jawi easy learning for kids and non Muslim users.
- Jawi Generator Software in an open source environment implemented in Embedded Linux System.

COMMERCIALIZATION POTENTIAL

- User-friendly system which is suitable for kids or even non Muslim users to learn about Jawi scripts.
- Low cost tool -RM200 and above.

PUBLICATIONS

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- [5] Noor Shalasiah Osman, Rohani S Mohamed Farook, Zulkifli Husin, The 2nd International Conference on Engineering and ICT (ICEI2010), "Jawi Generator Software under Linux operating system", 18-20 February 2010, Melaka, Malaysia.