**ABSTRACT** 

Global System for Mobile Communication Subscriber Identity Module Card or

GSM SIM Card is one of smart card technology. Smart card is an integrated with a

Central Processing Unit (CPU), memory, and Input/Output port. The goal of this project

is to analysis smart card's hardware for GSM SIM Card application. The scope of this

project is bounded only to the analysis and implementation writer and reader of GSM

SIM Card application and communication in GSM SIM Card, Write/Read Unit (WRU)

on Nokia 3350 handphone, and computer.

This project is did with literature study about smart card first and something

about smart card is International Standard Organizations 7816 or ISO 7816 standard, and

smart card communication methode, and literature study about GSM SIM Card with

GSM 11.11 standard. The second step is did analysis and implementation writer and

reader of GSM SIM Card application and communication in GSM SIM Card, and WRU

on Nokia 3350 handphone. The third step is did analysis that contain SIM Card prepare

process and smart card hardware testing, communication between SIM Card with

handphone, handphone with computer communication, and WRU configuration with

software that used.

The Test is accomplished to see the smart card functionality as GSM SIM Card.

The third test that did is hardware test, communication test, and access file test using

GSM functions.

Keywords

: SIM Card, GSM, and WRU

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