

## **ABSTRACT**

In this final assignment, the purpose of system is for replace conventional ECG monitoring system with ECG teleconsultation system based MMS. So, the quality of heart disease handling can increase.

ECG teleconsultation based MMS is heart signals teleconsultation system which is used MMS services that provide by cellular provider. This system work by means of capturing patient ECG data and transmitting by mobile phone that use as modem with advantage of MMS services. Then at the receiver side, multimedia message is accepted as image that can be analyzed by doctor.

These system is made by Java 2 Platform Micro Edition (J2ME) language program. In planning, system is divided by several modul that have specific function. The produces modul is signal reconstructions modul, is used for convert digital input signal to ECG graph. compressing modul, is used to compress and convert ECG graph format to image that possible to transmitted by MMS. Transmition modul, is used for transmits ECG graph through MMS that the format is match with MMS formating.

*Keywords: ECG, Teleconsultation, MMS, J2ME*