

## **ABSTRACT**

Emergency services are a service provided by an organization to ensure public safety. Generally, these services are usually grouped into three: police station, hospital, and fire fighter. In telecommunication site, this services did not use a feature, which the server can identify the location of the user who sent an emergency message that contains user's presence information to related parties.

Practically, emergency services are still using conventional methods. When user makes a call, emergency services will ask for the location of user, first. Then, check the position of user. It will takes time, remembering the emergency services must ensure the user accurate position to avoid the worst such a lost. This position identification feature is a service provides specific information regarding the location of the user by exploiting geographical position on mobile device.

In this final project, will be designed an information system on the emergency services to determine of existence of the user when the user sends an emergency message by utilizing the GPS service. This information system is supported by the Geographic Information System ( GIS ). The results of the design and implementation of GIS, will be connected with this feature, so the position identification of user can be mapped in longitude and latitude coordinates. Be expected that, this feature can provide user's position information for emergency services.

**Keywords :** GPS, GIS, emergency services.