ABSTRACT

Communication control and monitor through long distance space are today needed for the fluency of object management or security goal. Now on applications like vehicle tracking, delivery tracking, and airplane tracking, represent applications example of having object and goals which need to be observed and monitored so they could work properly. The technology of tracking system needs to be designed to fulfill that requirement, on condition that this technology seems to be expensive especially the data transfer cost.

This final project will develop a Position Tracking System (PTS) linking above service applications. The system exploit aliance from some technologies, among others Global Positioning System (GPS), The GSM phase two technology: General Packet Radio Service (GPRS) as consignor of wireless data, and also Geographical Information System (GIS). To get the position data from GPS *receiver*, a Java based application is being installed at the handheld device afterward the data will be transmitted to the application server. There's an application at the client side that access the position data at the application server and later visualize it into digital map.

A tracking system which able to track the object movement is the final result of this act of planning. From this result we have as a conclusion that the use of GPRS will overcome the expensive cost of the position data transfer.

Keywords : *Position Tracking System, GPS receiver, GPRS, GIS, digital map.*