

## ABSTRACT

LBS (Location Based Service) Technology based on Cellular Wireless able to help mobile device users in getting a services at anywhere by AGPS (Assisted – GPS) technology that integrated with mobile device. Mobile Device users able to get location spatial information easily where user are.

The basis problem is how to build an application based on LBS (Location Based Service) that integrated with AGPS technology built in mobile device. This application will send spatial information to LBS Server by HTTP mechanism. Format Exchange that used for data exchanging between mobile device and LBS Server use XML.

This final project will be built a prototipe Wireless LBS application based on PDA with AGPS Method. This prototipe is built with C#.NET and VB.NET and spatial data use Oracle10g. Map Development use MapInfo and MapXtreme. There are some main service feature such as user position, place searching, nearest searching, getting information somewhere that represented by map based on where user are from accessing GPS hardware directly that have good precision about  $\pm 10$  metres at LOS condition.

**Keywords : Wireless LBS, GIS (Geographic Information System), LBS, Geo-Data, Oracle Spatial, Pocket PC, Handled Device**

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