

## **“Child Location Monitoring Using GPS Mobile Phones”**

Nama : Muhammad Amrin Hakim

NRP : 5107 100 064

Jurusan : Teknik Informatika - FTIf ITS

Dosen Pembimbing I : Ary Mazharuddin Shiddiqi, S.Kom,  
M.Comp.Sc

Dosen Pembimbing II : Baskoro Adi Pratomo, S. Kom, M.Kom

### **Abstract**

Nowadays, parents are usually too busy with their job or work thus supervision of their child are reduced and they don't have a method to know where the child location. Moreover, their child lie about where they have been going or hanging round. Therefore, we need a device or mechanism to monitor the child location at particular time and record it to be a history so that parents will know the pattern of their child activities.

Monitoring child location using GPS mobile phones is an application which is enable users (parents) to know child mobile phones location by map. That process allows users (parents) to know child mobile phones location anytime. In addition, parents can also know child mobile phones location at spesific time range and the location if their child at emergency situation by sent emergency short messages.

This application will help users (parents) know child location. This application is developed using Symbian platform ,S60 3rd Edition Feature Pack 2 and should running well on mobile phones with S60 3rd Edition Feature Pack 2

Knowing child mobile phones location, users (parents) send request by short messages in spesific format to child mobile phones. Application will check validity that short messages and activate Global Positioning System, create map link location and send it back to users (parents).

The trial results of this application is able to work optimally in an outdoor with the location request is less than 20 seconds. But application are not able to get the coordinates in a indoor. Application also able to work well when all the features run concurrently.

**Keyword : *symbian, GPS, monitoring, child protection, location***

