



## System Architecture Diagram



### WORKING PATTERN:

The architecture of **NTrack** involves GPRS & GPS integrated devices for identifying the location and transferring data between the vehicle and the web server. **NTrack** unit is discreetly kept in pocket (Personal Tracker) or installed inside the vehicle (Vehicle unit). The GPS device over the moving vehicle calculates the location, speed, date and time information. **NTrack** unit process the location data & transmit it via GPRS communication network the web server and from there it is accessed by the call centre or the user on his PC or mobile phone. The GPRS again removes the cost of infrastructure and because here we use the existing cellular networks. The transmitted information is sent to a mapping engine that plots the live route of the vehicle on a digital map.

This system is of great value to the fleet managers because it enables them to view real time location of the vehicles by looking at the area map on his PC / mobile phone. A fleet manager may also take control of the fleet through geofencing (by demarcating specific geographical area for a vehicle on the computer screen) and if the vehicle violates the defined route, he can stop the vehicle from moving. Information retrieved about the actual operation of the fleet is summarized through system generated reports that should help in improving management decisions for cost reduction and increased profitability of the business.

On the other hand, the personal tracker is of immense help in the personal security of an individual as through it, the actual movements of an individual may be viewed in the area map on a PC / mobile phone.