CHAPTER 3

SYSTEM REQUIREMENTS

3.1. HARDWARE REQUIREMENTS:

The minimum hardware requirements for the development of the application are shown below:

* Arduino Uno Microcontroller board on the ATmega328.
* Arduino Ethernet Shield for Arduino Uno.
* Breadboard,LED’s,Connectors,buzzer,9v power source.
* Android based smartphone or tablet with GPS functionality.
* Reliable mobile data and internet connection.

3.2. SOFTWARE REQUIREMENTS:

The software development tools used for the development of the project are:

* Operating System : Linux/Windows
* Tools and Packages:

: Eclipse IDE.

: JDK 6.

: Android SDK and ADT plugin

: Arduino SDK 1.0.3 or higher

: WAMP/LAMP server  
 : CRON job scheduler

* Database : MySql.
* Front End : HTML and PHP
* Programming language : Java,C/C++,XML,PHP.