**Bus Terminal Monitoring System**

\* **IDE**

- Microsoft Visual Studio 2010

\* **Programming Language**

- C#.NET

(For Server side Application, Handles MySql Database, Serial Communication. )

(Client side Application, Handles User Interface)

- HTML

(For Client side, Handles the Google Map and Other User Interface)

- JavaScript and jQuery

(For Initialize Google Map, Parsing URL queries and Access HTML TAGS / ELEMENTS

\* **Technology**

- Google Map API

- Serial Communication

- TCP/IP Connection

**\* Process**

* Connect the **Server Side application** to a GSM Module ( SmartBroadband ) using **Serial Communication**.
* Use **MySql** Database to Store all related data from GSM.
* Process data in Server then transfer the data to **Client side application** using **TCP/IP Connection**.
* Client side application, Process all the data received from the server then set the query string of the link (Html project) then **Navigate** the URL.
* JavaScript received the request **QueryString** and **Parse** the request. Initialize **Google Map API** base from the QueryString. Show Map without refreshing the page. ( HTML project: Implements **Hash**, to avoid the page from refreshing. The listener of change of has is the **JavaScript** and **jQuery**.)

**Server Side Application**



**Client Side Application**



Client Side ( Front End )

