**2. REQUIRED SPECIFICATION**

**2.1 Software Requirements**

1. Backend: MySQL
2. Front End: Visual Basic
3. Operating System: Microsoft Windows XP, Windows 7
4. Integrated Development Environment: Windows Visual Studio 2008 Professional Edition
5. Database Connectivity: ODBC Drivers.

**2.2 Hardware requirements**

|  |  |  |
| --- | --- | --- |
| Processor | RAM | Disk Space |
| Intel Core 2 Duo or AMD - 800 MHz | 512MB | 80GB |

**2.3 FUNCTIONAL REQUIREMENTS**

1. **Investigation officer**

* To access the database, authentication is required.
* Can see a list of cases that are assigned to him/her.
* Can update the status of the investigation of a case.
* Can search for criminals, places, and other search terms.

1. **FIR Clerk**

* Authentication required for Login.
* Can file an First Investigation report for the complainant.

1. **General Users**

* Can view some statistics regarding crimes like the most dangerous area, the most wanted criminal and other statistics.
* Not allowed to change, update or delete any information.
* Confidential information hidden from this user.

1. **Database Administrator**

* Create new login IDs for FIR Clerks, Investigation Officers.
* Update the jail information from the backend.
* Provide security and maintain the integrity of the system.

**2.4 NON FUNCTIONAL REQUIREMENTS**

* Performance of the tool must be good even in slower processors like Pentium 4.
* The tool must be user friendly and the clerks and the officers must be kept in mind during the Graphical user interface is design.
* Validation and authentication to fields that are entered must be taken care of.