**Chapter 1**

**Feasibility study:**

Feasibility studies aim to objectively and rationally uncover the strengths and weaknesses of the existing business or proposed venture, opportunities and threats as presented by the environment, the resources required to carry through, and ultimately the prospects for success. In its simplest term, the two criteria to judge feasibility are cost required and value to be attained. As such, a well-designed feasibility study should provide a historical background of the business or project, description of the product or service, accounting statements, details of the operations and management, marketing research and policies, financial data, legal requirements and tax obligations. Generally, feasibility studies precede technical development and project implementation.

1.1 **Project description:**

This project will be a wise step in the production of a well developed Generic Software product and also to make it as my Major project for the B.tech degree completion as per university curriculum. The project will be in different versions as per requirements and by also removing the limitations. The project is to develop a **System Utility** which can be used to take advance use of Cryptographic and Steganographic Techniques. In .Net technologies we can develop such utility, very easily. But for developing a generic utility that must be useful too, one must do hard work and many other .Net tools to perform better in the project of “Data & PC Securer”.

**1.2 Possible solutions:**

The possible solution for developing such software is the use of C# language and to use it in the .Net platform. In the .Net platform one can do various task related to design, coding, deployment, etc. very easily. JAVA can also act as a suitable language but it can be much tougher in term of lengthier coding and also we did training on C# .Net technology only.

Software written in two or more languages or technologies becomes less feasible so we only use C#.

**1.3 Requirement:**

The basic requirement or the minimum requirement for running this project may be:

|  |  |
| --- | --- |
| TYPE | MINIMUM REQUIREMENT |
| Processor | Pentium 4 / Dual Core |
| Operating System | Windows Vista / 7 |
| Other Support | .Net Framework 4.0 |
| Connection\* | Internet, Wi-Fi, Bluetooth |

**1.4 Technology requirement:**

1. Visual Studio: We have Microsoft Visual Studio 2010 Ultimate.
2. Processor: Minimum requirement is Pentium Dual core for Visual Studio.
3. Operating System: Microsoft windows Vista. We worked on windows 7.
4. Human resource: any group or individual can develop such.
5. Submission: The project is to be submitted in college as Major Project.
6. User Group: Generic and can be used by all computer users.

**1.5 Economical requirement:**

1. The project not required any hardware requirement so it does not increase hardware cost.
2. Cost will increase getting a licensed Visual studio, searching on internet.
3. As the project is for submission it will not go for sale and we will also not do so. But infect we will work on it and soon launch its new version that can be downloaded from internet and also a beta version will be putted in front of users to give rating.

**1.6 Legal feasibility:**

All the software used for developing and deployment are licensed and also all the part of the project are legal and if any part of project gets similarity with other projects then it may be co-incidental or that coding part may be copied but from legal way.

**1.7 Operational feasibility:**

The software will be operational in any devices which have following requirements:

1. 500 MB RAM.
2. Pentium dual core Processor.
3. Windows XP.
4. Internet facility (for downloading .Net framework, if not installed earlier).
5. .Net 4.0 framework.

**1.8 Output:**

As it is a System Utility, the main motive of the Software will be to provide best assistance and use of Encryption Techniques to give all possible functionalities to user to protect and send personnel data easily.