Project Proposal

Project Name:

Image Steganography - Hide information within image file - C#

Abstract:

Steganography is the art of hiding the fact that communication is taking place, by hiding information in other information. Many different carrier file formats can be used, but digital images are the most popular because of their frequency on the internet.

One of the reasons that intruders can be successful is the most of the information they acquire from a system is in a form that they can read and comprehend. Intruders may reveal the information to others, modify it to misrepresent an individual or organization, or use it to launch an attack. One solution to this problem is, through the use of steganography. Steganography is a technique of hiding information in digital media. In contrast to cryptography, it is not to keep others from knowing the hidden information but it is to keep others from thinking that the information even exists.

Steganography become more important as more people join the cyberspace revolution. Steganography is the art of concealing information in ways that prevents the detection of hidden messages. Steganography include an array of secret communication methods that hide the message from being seen or discovered.

Due to advances in ICT, most of information is kept electronically. Consequently, the security of information has become a fundamental issue. Besides cryptography, steganography can be employed to secure information. In cryptography, the message or encrypted message is embedded in a digital host before passing it through the network, thus the existence of the message is unknown. Besides hiding data for confidentiality, this approach of information hiding can be extended to copyright protection for digital media: audio, video and images..

The growing possibilities of modern communications need the special means of security especially on computer network. The network security is becoming more important as the number of data being exchanged on the internet increases. Therefore, the confidentiality and data integrity are requires to protect against unauthorized access and use. This has resulted in an explosive growth of the field of information hiding.

Software Requirements:

- C#
- VS 2005 / 2008 and heigher

Hardware Requirements:

Processor: Preferably 3.0 GHz or Greater.
RAM   : 1 GB or Greater.

Limitations of the Software:

This project was developed to fulfill user requirement; however there are lots of scope to improve the performance of the Steganography for hiding data in image files System in the area of user interface, database performance, and query processing time. Etc.

Future Enhancements:

- Support more audio file format like mp3, mpg4 etc.

Project Details:

- No of Form, Pages, Reports in project source : **2**
- No of database tables : **NA**
- No of pages in project report : **80**

Project Demo:

https://youtu.be/0rq5Uk1U2oM

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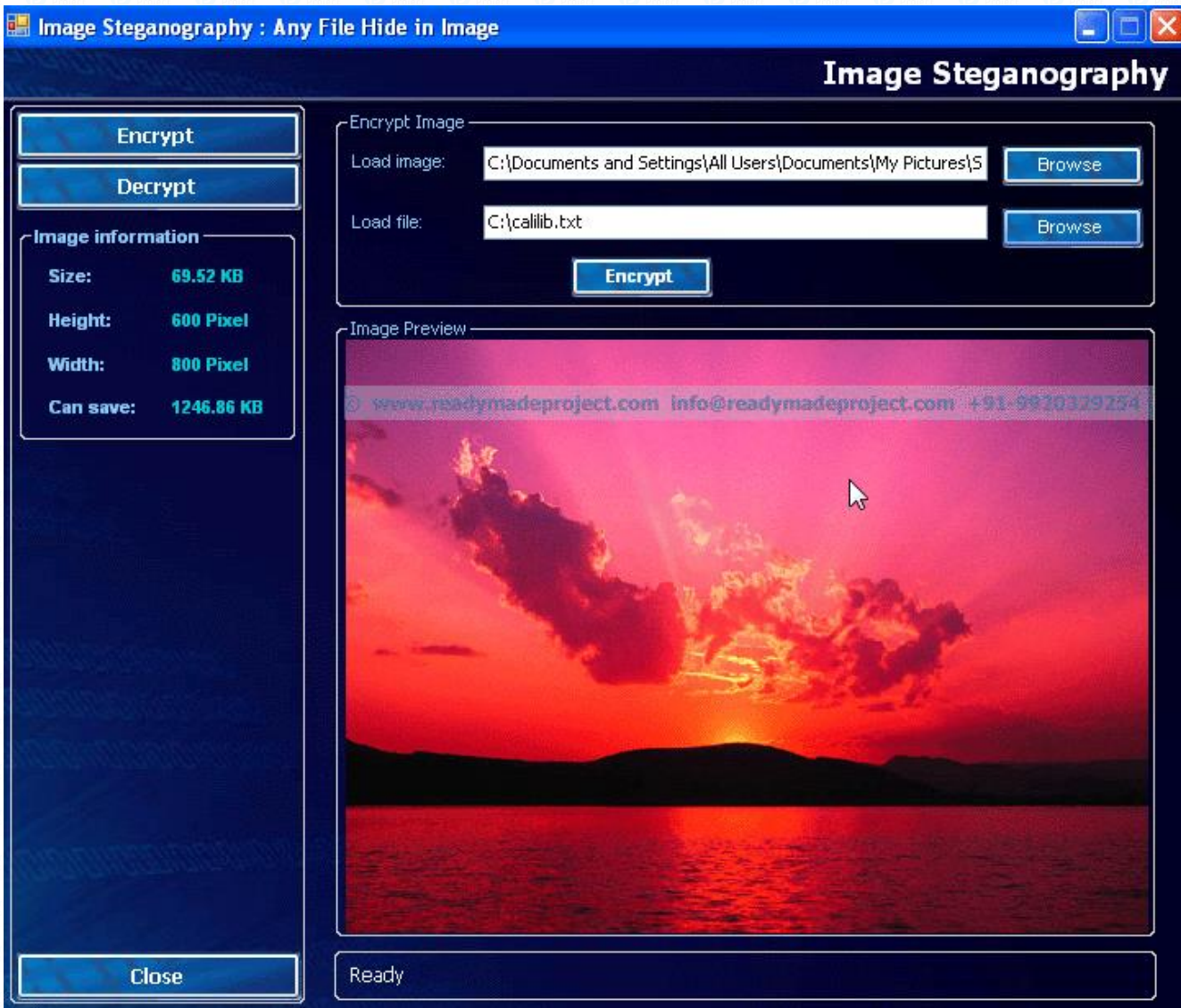**https://readymadeproject.com/FullProjectDetail?id=90**

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