



# **Air University** (Multan Campus)

Department of Computer Sciences

## **Software Engineering Project Proposal ( Steganography)**

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**Submitted To: Sir. Ahmad Mohsin**  
**Date: 10 October, 2017**

## **Introduction:-**

Steganography is the technique of hiding private or sensitive information within something that appears to be nothing is a usual image. Steganography involves hiding Text so it appears that to be a normal image or other file. If a person views that object which has hidden information inside, he or she will have no idea that there is any secret information. You will need the key to decrypt the hidden text. User then sends the image and key to the receiver, and receiver first opens the image, and then he enters the key or password for decryption of text, he then press decrypt key to get secret text of the sender.

## **Clear Statement of the Problem:-**

By using this method we can double ensure that our secret message is sent secretly without outside interference of hackers or crackers. If sender sends this image in public others will not know what is it, and it will be received by receiver

## **Objectives & Scope:-**

The project aims to secure the data without any interruption. User send text as secrete message inside an image file, user uploads the image and enters the text to send secretly, and gives a key or a password to lock the text, what this key does is it encrypts the text, so that even if it is hacked by hacker he will not be able to read the text. By using this method we can double ensure that our secret message is sent secretly without outside interference of hackers or crackers. If sender sends this image in public others will not know what is it, and it will be received by receiver.

## **Motivation:-**

I think today's most widely problem is securing the data by different hackers and crackers and this project secure our all data in just one picture, and it will directly send to the other person.

### **Application:**

This system can be used by everyone who wants send some confidential text to someone. Image can be shared by any easy mean like email, what's app etc.

### **Resources Required:-**

All required resources for current information are listed follow:

#### **Hardware Resources Required:-**

- PC i5 2.3GHz
- 500GB Hard
- 4GB Ram
- Full Internet access
- Books related to project management and software engineering

#### **Software Resources Required:-**

- Microsoft Project
- Python version 3.4 or version 2.7.13
- Microsoft Visio
- PyCharm IDE
- Adobe Photoshop

***[NOTE: The requirements stated as 'not confirmed to be used' have a possibility to be used as a combination in a module, to be used individually in a module, or not used at all.]***

### **Project Plan:-**

Project plan will be designed with the collaboration of the supervisor.