

MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA245 – MINI PROJECT

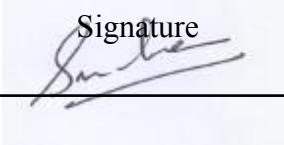
PRO FORMA FOR THE APPROVAL OF THE THIRD SEMESTER MINI PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Mini Project Proposal No :
(Filled by the Department)

Academic Year : 2021-2022
Year of Admission : 2020

1. Title of the Project : Metamorphosis of password
2. Name of the Guide : Mr Nowshad CV
3. Number of the Student: MES20MCA-2053
4. Student Details

Name (in BLOCK LETTERS):	Roll Number	Signature
1. <u>SUMEEHA V ASHRAF</u>	<u>54</u>	

Date: 01/12/2021

Approval Status : Approved / Not Approved

Signature of
Committee Members

}

Comments of The Mini Project Guide

Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of The Project Coordinator

Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of
HOD

METAMORPHOSIS OF PASSWORD

Sumeeha V Ashraf

Introduction:

Passwords are the most common way to prove your identity when using applications, websites, email accounts and your computer itself (via User Accounts). The use of strong passwords is therefore essential in order to protect your security and identity. The project is to develop a password transmission scheme by rasterizing the characters in the password and sending it in different byte order based on the generated random number. Raster is 8 * 8 dots. That is 8 bytes. Dots for each character are stored as 8 bytes in a random file. Passwords are never sent to the server.

During both registering and login, a rasterized image is sent to the server. The order in which the bytes are sent will differ according to a random number. On entering the password, the client calculates the order in which, client has to send the bytes, based on a random number. The server arranges the byte received into scrambled order, in both cases of registering and logging in based on the information stored in the upper nibble of each byte. During registration, the bytes are written into a file, the name of which is the user id. On login, the received bytes are compared with the bytes read from the file.

Objectives:

The main objective of the project 'Metamorphosis of Password' is to develop a transmission scheme for passwords to ensure security and privacy.

Problem Definition:

The project develops a password transmission scheme by rasterizing the characters in the password and sending it in different byte order based on the generated random number.

Basic Functionalities:

This software can be used in securing the password transmission between a client and server. Since the password is sent in a scrambled format based on the random number generated and the order of scrambling is always different an outsider cannot decode this password and thus have access to the password.

Tools / Platform, Hardware and Software Requirements:

HARDWARE SPECIFICATION

Processor	:	Intel Pentium
RAM	:	4GB
Hard Disk	:	500GB
CPU Speed	:	1.50 GHz
Monitor	:	Generic pnp monitor
Input Devices	:	Keyboard and Mouse

SOFTWARE SPECIFICATION

Operating system	:	Windows 7
Programming Language	:	Java 1.8