

INTRODUCTION TO COMPUTER SECURITY (CSCE 5550)

PROJECT REPORT

PROJECT: PASSWORD MANAGER

PROJECT DESCRIPTION:

The major idea of this project is to create a password manager for the following websites and have to retrieve the password from the given website. In the first part of the code it will create the database file of passwords, salting and websites which will store passwords, salting files and websites. In the second part of the code we generated the password using 14 character strings which include uppercase, lowercase, numbers, and special characters. In the 3rd part of the code the given password is encrypted using the AES-GCM 256 cipher algorithm and here we have taken master password as our EUID which is used as a key is encrypted by using PBKDF2 algorithm and also we have added components for adding a website and also a password retrieval for a given password.

SCREENSHOTS:

```
Please Enter Your master password: gp0227
Please confirm Your master password:gp0227

Please select the following operations:

1. Add a website
2.View the details of a website
3.Exit from program

Please make a selection:1

Please enter the website name:kiran.com

Files Have been encrypted with the master password:

The website details added are: kiran.com

Please select the following operations:

1. Add a website
2.View the details of a website
3.Exit from program
```

Please make a selection:2

please eneter the site to read details:kiran.com

The Website found in the database is : kiran.com

The Actual password of the website is : 8kUmz!M#IRo@S3

Please select the following operations:

1. Add a website
- 2.View the details of a website
- 3.Exit from program

please eneter the site to read details:g

The Given website doesnot Exist

Please select the following operations:

1. Add a website
- 2.View the details of a website
- 3.Exit from program

Please make a selection:

please eneter the site to read details:g

The Given website doesnot Exist

Please select the following operations:

1. Add a website
- 2.View the details of a website
- 3.Exit from program

Please make a selection:

Please select the following operations:

1. Add a website
- 2.View the details of a website
- 3.Exit from program

Please make a selection:3

Program Terminated

TEAM MEMBERS:

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