

# Introduction

## Introduction

As We Know that , We are in 21<sup>st</sup> Century and we are surrounded by the online systems and to operate online systems we have to sign up on that site, sign up requires user id and Passwords because of lots of user id and passwords sometimes we get confused.

So to overcome this situation we had created a System named **“Password Management System”**.

This Management software can Manage our Passwords and user name and it can prevents our confidential data to be hacked because it is an offline system right now and we had use encryption and decryption technology in this Software.

## Statement of Problem

It is difficult to remember passwords because we have many passwords and we can't use it simple because simple passwords can get easily hacked and this password management system can generate Password randomly which is a Secure password because we had use combination of strings Or We can Save our existing password too.

And it Saves in our PC in Encrypted form so if by chance our pc is hacked then we don't have to be worry about passwords and Accounts.

## Objective

To Generate a secure password and Save password by this Program so that We can Easily Access our Passwords without any thinking.

## Application

We can Access All our Passwords without any delay.

We can Generate Strong Passwords.

We can Save Passwords for future preference.

It is Secured by Encryption and Decryption

It Requires Single Password to Access All Passwords means we have to remember single password

# Details Of Project

## About The Project

### **What is password management?**

Passwords are a set of strings provided by users at the authentication prompts of web accounts. Although passwords still remain as one of the most secure methods of authentication available to date, they are subjected to a number of security threats when mishandled. The role of password management comes in handy there. Password management is a set of principles and best practices to be followed by users while storing and managing passwords in an efficient manner to secure passwords as much as they can to prevent unauthorized access.

### **What are the challenges in password management?**

There are many challenges in securing passwords in this digital era. When the number of web services used by individuals are increasing year-over-year on one end, the number of cyber crimes is also skyrocketing on the other end. Here are a few common threats to protecting our passwords:

**Login spoofing** - Passwords are illegally collected through a fake login page by cybercriminals.

**Sniffing attack** - Passwords are stolen using illegal network access and with tools like key loggers.

**Shoulder surfing attack** - Stealing passwords when someone types them, at times using a micro-camera and gaining access to user data.

**Brute force attack** - Stealing passwords with the help of automated tools and gaining access to user data.

**Data breach** - Stealing login credentials and other confidential data directly from the website database.

All of these threats create an opportunity for attackers to steal user passwords and enjoy unlimited access benefits. Let's take a look at how individuals and businesses typically manage their passwords.

### **What is a password manager?**

A password manager is an advanced tool that helps individuals and businesses securely store and manage all of their login credentials. This tool is commonly used to generate strong, unique passwords for web applications. Once generated, they are put in a centralized vault, and encrypted with one master password. Users only need to remember one password to access their services. Based on the end user's needs, we can categorize password managers into three different groups.

For individuals

For teams and families

For enterprises

# Project Snapshots

Some Screen Shots of Beta Versions are

```
CCCCCCCC      00000000      EEEEEEEE      RRRRRRRR
CC             00      00      EE             RR      RR
CC             00      00      EE             RR      RR
CC             00      00      EEEEEE          RRRRR
CC             00      00      EE             RR      RR
CC             00      00      EE             RR      RR
CCCCCCCC      00000000      EEEEEEEE      RR      RR
```

```
$$$$$$$$$ EEEEE  CCC  UU  UU  RRRRR  IIIII  TTTTTTT YY  YY
$$         EE    CC   UU  UU  RR  RR   II    TTTT   YY  YY
$$$$$$$$$ EEE   CCC  UU  UU  RRRRR   II    TT     YYY
      $$    EE    CC   UU  UU  RR  RR   II    TT     YY
$$$$$$$$$ EEEEE  CCC  UUUU  RR  RR  IIIII  TT     YY
```

Enter the password to initialize the software :

```
PPPPPP  MM      MM      SSSSSS
PP      PP  MM M  M MM  SS
PPPPPP  MM  MM  MM  SSSSS
PP      MM      MM      SS
PP      MM      MM  SSSSSS _
```

#### Menu

1. New Record
2. Modify Record
3. Show Record
4. Show All
5. Exit

enter your choice

- ```
Menu
1. New Record
2. Modify Record
3. Show Record
4. Show All
5. Exit
```

```
enter your choice 4
```

```
List of all Records
```

```
=====
PID      Owner          Purpose          Date          Password
=====
1000     Aakash Karn      Gmail            02/11/2002    Tc5@Q_9fI_
=====
```

```
Press any key to continue_
```

- ```
1. New Record
2. Modify Record
3. Show Record
4. Show All
5. Exit
```

```
enter your choice 2
```

```
Enter Pid : 1000
```

```
Current details are:
```

```
ID No.      : 1000
Owner Name   : Aakash Karn
Purpose      : Gmail
Mobile No.   : 1321416674
Date (DD/MM/YYYY): 02/11/2002
Password     : Tc5@Q_9fI_
Remark       : Good
```

```
Enter new details :
```

```
Purpose       :
```

Purpose : Gmail  
Mobile No. : 1321416674  
Date (DD/MM/YYYY): 02/11/2002  
Password : Tc5@Q\_9fI\_  
Remark : Good

Enter new details :

Purpose : gmail  
Mobile No. : 9911351266  
Date (DD/MM/YYYY): 02/11/2002  
Remark : good

Custom Password or Program Generated Password  
Enter 1 for Custom 2 for Program Generated : 1

Password : Qwerty@123

Record modified successfully!  
Press any key to continue

#### Menu

1. New Record
2. Modify Record
3. Show Record
4. Show All
5. Exit

enter your choice 3

Enter Pid : 1000

Current details are:

ID No. : 1000  
Owner Name : Aakash Karn  
Purpose : gmail  
Mobile No. : 1321416674  
Date (DD/MM/YYYY): 02/11/2002  
Password : Qwerty@123  
Remark : good  
Press any key to continue