Features of the password manager:

1. No. of encoding schemes used: 12

'blake2b','blake2s','md5','sha1','sha224','sha256','sha384','sha3\_224','sha3\_256','sha3\_384','sha3\_512','sha512'

1. Password can be generated in two ways  
   a. A keyphrase to be encoded  
   b. A random 10 digit no. is generated
2. Password structure: (**01234**)(Random\_alphabet\_in\_caps)(\*)(**567891011**)  
   The highlighted digits are the first n digits from the hashed password generated. Stretch it to 32 bits
3. Every time a new website login is set up, a different hashing scheme is selected from the available ones, in a round robin fashion. This counter is also stored in a database in the cloud.
4. User only needs to remember the master password; this is hashed using SHA224. After login, a message will be sent to the user that the user has logged in.
5. On forgetting the master password, it can be reset by answering the security question and OTP.
6. Passwords are stored in a SQL database in the cloud.
7. Security question’s answer is hashed using SHA224 and stored locally.
8. In case a website login is compromised, the password can be regenerated on answering the security question.
9. After login, if the user wants to retrieve a website’s password, on authentication, it is automatically copied to the clipboard.
10. The back-end and front-end have been built. We are currently working on [anvil.works](https://anvil.works/) to link them both.

forgot\_passwd  
(answ)

Enter

password

Master login

Security question

Forgot password

Enter

OFF

OTP checking

New master password

Enter

password

Which website do you want to visit

OFF

OFF

OFF

OFF

Enter

update\_pass(details)

Answer security question

Enter

Answer

Security check

fetch\_pass(website)

(password copied)

Console

1. Access a website
2. New credentials
3. Change credentials

Access a website

Website name

Enter

1

New credentials

Enter

User ID

Website URL

Website name

Password choice

Keyphrase

insert\_pass(details)

2

Reset credentials

Website name

Website URL

User ID

Password choice

Keyphrase

3

console()

check\_pwd(password)