*Week3 Progress Report on Password Manager*

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**Overview**

During the third week, I took my step towards the source code of my project work, I just completed two by third part of my project as it came so successful it really motivates me.

Tasks Completed

As the implementation have three stages:

* Configure
* Add new entries
* Get entries

***Add New Entries:***

* Ask for MASTER PASSWORD
* Validate MASTER PASSWORD by hashing and checking with existing hash.
* Make hash (DEVICE SECRET + MASTER PASSWORD) = Master Key
* Input Fields of the entry–site name, siteurl, email, username, password.
* Encrypt email, username and password with MASTER KEY and save the fields into the database.

This task has been completed.

Challenges Faced

* This week has been better than last week.
* In this week I got less number of errors than last time, I think I am improved this really motivates me to move further in this project.

Lessons Learned

Overall, the lessons learned from the "Password Manger" project highlighted the importance of data security and it is a real-world application. These insights will guide us in future projects and contribute to our professional growth.

Code progress

from getpass import getpass

from Crypto Protocol KDF import PBKDF2 from Crypto.HashimportSHA512

from Crypto Random Import get random bytes importutils aesutil

def computeMasterkey(mp,ds):

password mp.encode()

salt ds.encode()

key=PBKDF2(password,salt,32,count=1000000,hmachashmodule=SHA512)returnkey

def addEntry(mp,ds,sitename,siteurl,email,username):

* get the password 17 password=getpass("Password:")

mk=computeMasterkey(mp,ds)

encrypted=utils.aesutil.encrypt(key-mk,source-password,keyType="bytes")

* Add to db

db=dbconfig()cursor=

db.cursor()

query="INSERT INTO pm.entries(sitename,siteurl,email,username,password)values(%s,%s,%s,%s,%s)”

val=(sitename,siteurl,email,username,encrypted)

cursor.execute(query,val)

db.commit()

printc("Igreen]]+11/green]Addedentry")