*Week4ProgressReportonpasswordManager*

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**Overview**

Duringthefourthweek,Itookmysteptowardsthesourcecodeofmyprojectwork,I am almost there to complete my project this is the last step to my project

TasksCompleted

Astheimplementationhavethreestages

* Configure
* Addnewentries
* Getentries

Get Entries:

* Input the field to search for. Like site name, site url, email, username
* Display all the entries that match the search. Password hidden by default.
* It user chooses to get the password (with p flag), then
* Ask for MASTER PASSWORD
* Validate MASTER PASSWORD by hashing and checking with existing hash
* Make hash(DEVICE SECRET +MASTER PASSWORD) =Master key
* Decrypt the password and copy to the clipboard

This task has been completed

ChallengesFaced

* This week is really better , as I am good enough to deal with sql(rows & columns)
* As always this week motives me with some errors

LessonsLearned

Overall,thelessonslearnedfromthe"PasswordManger"projecthighlightedtheimportanceofdatasecurityanditisareal-worldapplication.Theseinsightswillguideusinfutureprojectsandcontributetoourprofessionalgrowth.

Codeprogress

from utils.dbconfig import dbconfig

from rich import print as printc

from rich.console import Console

from rich.table import Table

def retrieveEntries (mp, ds, search, decryptPassword = False):

db = dbconfig()

cursor = db.cursor()

query = ""

if len(search) == 0:

query = "SELECT FROM pm.entries"

else:

query = "SELECT FROM pm.entries WHERE

for i in search:

query+= "{i} = ‘{search[1]}’ AND "query query [:-5]

cursor.execute(query)

results = cursor.fetchall()

if len(results) == 0:

printc("[yellow][-][/yellow] No results for the search")

return

if (decryptPassword and len(results)>1) or (not decryptPassword):

table Table (title="Results") table.add column ("Site Name")

table.add\_column("URL",)

table.add column("Email")

table.add column("Username")

table.add\_column("Password")

for i in results:

table.add\_row(i[0], i[1],i[2], i[3], "{hidden}")

console = Console()

console.print(table)

return

if len(results)==1 and decryptPassword:

mk = computeMasterkey (mp, ds)

decrypted = utils.aesutil.decrypt (key-mk, source=results[0][4], keyType="bytes")

pyperclip.copy(decrypted.decode())

printc("[green] [+] [/green] Password copied to clipboard")

db.close()