

*Week 3 Progress Report on password Manager*



UpSkill Campus, UniConverge Technologies Pvt.Ltd.

Submitted by: Singam Sree Charitha

Correspondence Address: Singam Sree Charitha

Madanapalle Institute of Technology and Science,

Department of Computer Science and Engineering,

Angallu, Andhra Pradesh, 517326, India.

Mail: 191051350sms@gmail.com

Phone: +91 9160086756

# 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 succesfull 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,user name, password
* Encrypt email , username and password with MASTER KEY and save the fields into the data base 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.Hash import SHA512 from Crypto Random Import get random bytes import utils.aesutil def computeMasterkey(mp, ds):

password mp.encode() salt ds.encode()

key = PBKDF2(password, salt, 32, count=1000000, hmac hash module=SHA512) return key

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] Added entry ")