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*Week 3 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,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
    password = getpass("Password: ")

    mk = computeMasterkey(mp, ds)

    encrypted = utils.aesutil.encrypt(key-mk, 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 ")
```