2018

# Project Report

PYTHON LOGIN FUNCTION WITH MONGODB

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# Introduction

This is a simple login form. If user entered correct user name and password. User can login to the system otherwise display an error message.

- Front end created using Python.
- Back end created using MongoDB.

  - Username-test
  - Password-pass@123

# Source Codes

## Create DB, Collection & Data Insertion through the python

```
from pymongo import MongoClient
Client=MongoClient()
db=Client[“Login”]
collection=db[“Login_Details”]
log={}
log[“UserName”]=”test”
log[“Password”]=”dc06698f0e2e75751545455899adccc3”
collection.insert(log)
```

- Create db call Login.
- Create Collection call Login_Details.
- Create document UserName & Password.
- Insert 1 record.

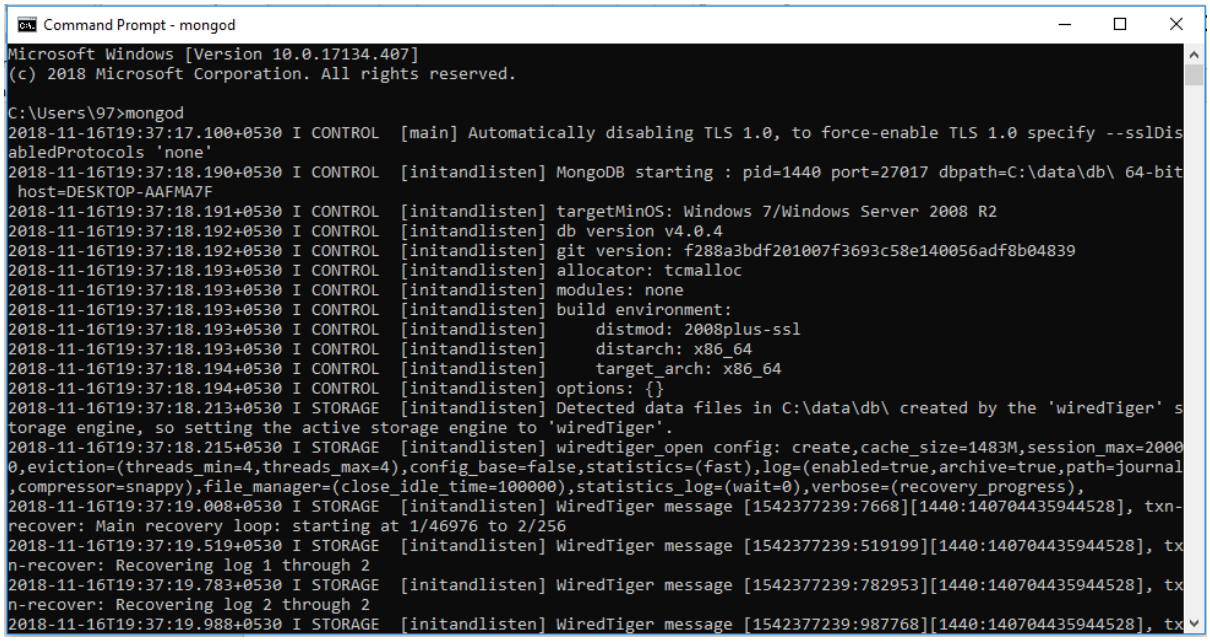
## Create Console Application

```
import pymongo
import hashlib
print("##########  User Login  ##########")
un=input("enter User Name : ")
pwd=hashlib.md5(input("enter Password : ").encode()).hexdigest()
uri="mongodb://127.0.0.1:27017"
client=pymongo.MongoClient(uri)
database=client['Login']
collection=database['Login_Details']
users=collection.find({})
for user in users:
    if un==user['UserName'] and pwd==user['Password']:
        print("$$$ Successful Loged IN $$$")
        print("Hello "+un)
    else:
        print("UserName Or Password Incorrect")
```

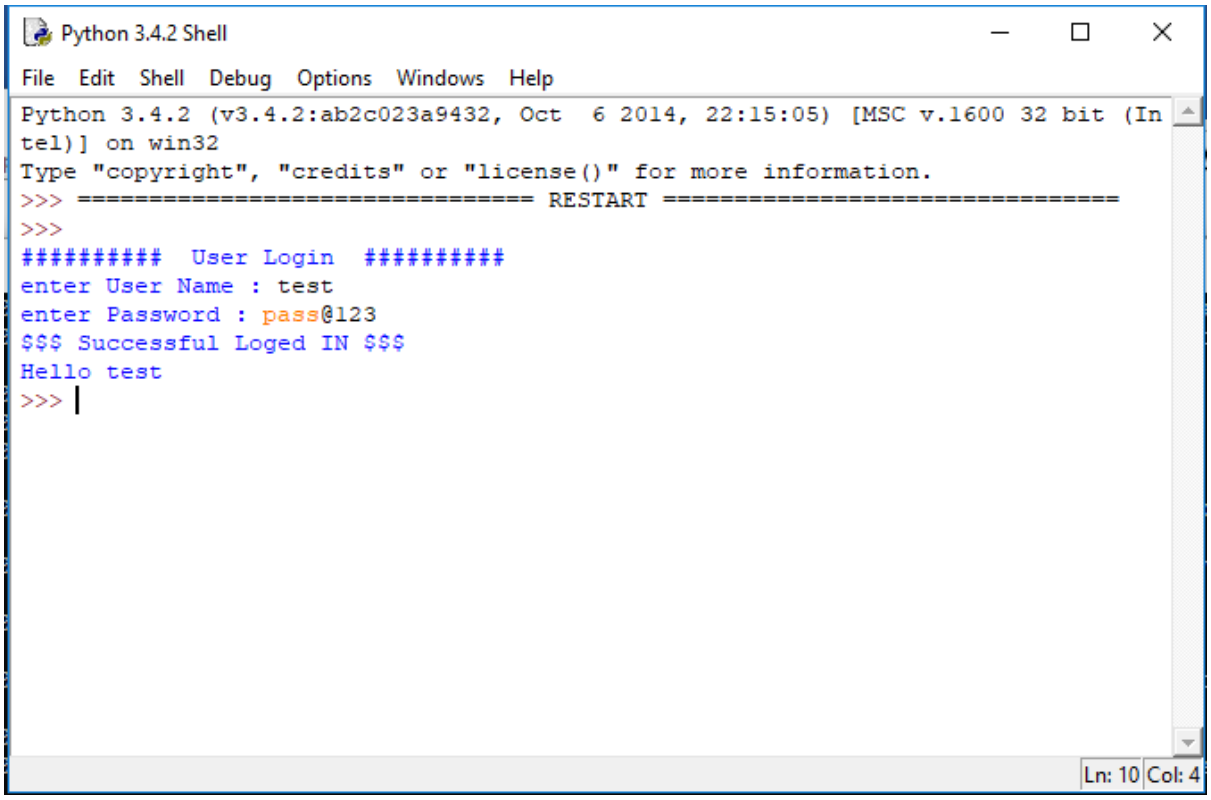
- Import pymongo library to connect db.
- Import hashlib to get hashing methods.
- Use md5 algorithm  to hash password.

# Program Outputs

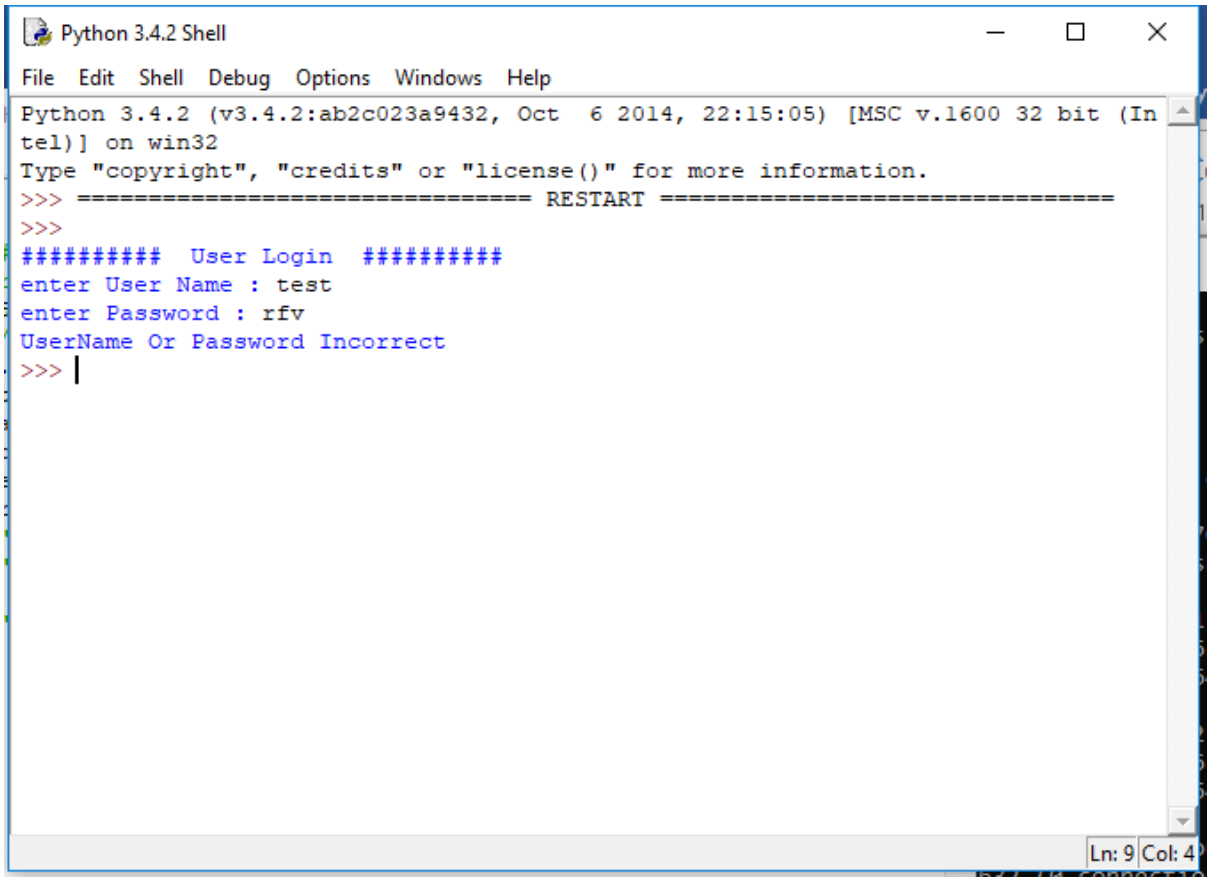
## Running the db server MongoDB



## Successfully Login



## Invalid Login



## Conclusion

- **MongoDB** is best suitable for hierarchical data storage, but **RDBMS** is not. **MongoDB** supports JSON query language along with SQL but **RDBMS** supports SQL query language only. ... **MongoDB** is almost 100 times faster than traditional database system like **RDBMS**, which is slower in comparison with the NoSQL databases.
- MongoDB's DO concept is much more flexible than RDBMS technologies and it is a more suitable choice to work with dynamic languages such as Python .

# References


- https://docs.mongodb.com/
- https://www.w3schools.com/python/
- MongoDB and Python O'reily edition - Niall O'Higgins
- learn-python-in-7-days