

# Login Function in Python using Mongodb

Software Security - Assignment

COHDSE182F-024 - Ishanka Withanage

# Details of Database:

Database Name : Login\_db

Collection Name : User\_data

Document Name : mylist

## Steps

1.

```
Command Prompt - mongod.exe
Microsoft Windows [Version 10.0.10240]
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C:\Users\IGP WITHZ>mongod.exe
2018-11-16T16:05:25.328+0530 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'
2018-11-16T16:05:25.643+0530 I CONTROL [initandlisten] MongoDB starting : pid=3768 port=27017 dbpath=C:\data\db\ 64-bit host=DESKTOP-JP632TH
2018-11-16T16:05:25.643+0530 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2018-11-16T16:05:25.643+0530 I CONTROL [initandlisten] db version v4.0.4
2018-11-16T16:05:25.643+0530 I CONTROL [initandlisten] git version: f288a3bdf201007f3693c58e140056adf8b04839
2018-11-16T16:05:25.644+0530 I CONTROL [initandlisten] allocator: tcmalloc
2018-11-16T16:05:25.644+0530 I CONTROL [initandlisten] modules: none
2018-11-16T16:05:25.644+0530 I CONTROL [initandlisten] build environment:
2018-11-16T16:05:25.644+0530 I CONTROL [initandlisten]   distmod: 2008plus-ssl
2018-11-16T16:05:25.644+0530 I CONTROL [initandlisten]   distarch: x86_64
2018-11-16T16:05:25.644+0530 I CONTROL [initandlisten]   target_arch: x86_64
2018-11-16T16:05:25.644+0530 I CONTROL [initandlisten] options: {}
2018-11-16T16:05:25.651+0530 W STORAGE [initandlisten] Detected unclean shutdown - C:\data\db\mongod.lock is not empty.
2018-11-16T16:05:25.654+0530 I STORAGE [initandlisten] Detected data files in C:\data\db\ created by the 'wiredTiger' storage engine, so setting the active storage eng
ine to 'wiredTiger'.
2018-11-16T16:05:25.655+0530 W STORAGE [initandlisten] Recovering data from the last clean checkpoint.
2018-11-16T16:05:25.655+0530 I STORAGE [initandlisten] wiredtiger_open config: create,cache_size=3518M,session_max=20000,eviction=(threads_min=4,threads_max=4),config_
base=false,statistics=(fast),log=(enabled=true,archive=true,path=journal,compressor=snappy),file_manager=(close_idle_time=100000),statistics_log=(wait=0),verbose=(recov
ery_progress)
2018-11-16T16:05:26.165+0530 I STORAGE [initandlisten] WiredTiger message [1542364526:164747][3768:140733549666352], txn-recover: Main recovery loop: starting at 11/13
824 to 12/256
2018-11-16T16:05:26.166+0530 I STORAGE [initandlisten] WiredTiger message [1542364526:165718][3768:140733549666352], txn-recover: Recovering log 11 through 12
2018-11-16T16:05:26.266+0530 I STORAGE [initandlisten] WiredTiger message [1542364526:266677][3768:140733549666352], txn-recover: Recovering log 12 through 12
2018-11-16T16:05:26.368+0530 I STORAGE [initandlisten] WiredTiger message [1542364526:367925][3768:140733549666352], txn-recover: Set global recovery timestamp: 0
2018-11-16T16:05:26.990+0530 I RECOVERY [initandlisten] WiredTiger recoveryTimestamp. Ts: Timestamp(0, 0)
2018-11-16T16:05:27.532+0530 I CONTROL [initandlisten]
2018-11-16T16:05:27.533+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2018-11-16T16:05:27.534+0530 I CONTROL [initandlisten] **          Read and write access to data and configuration is unrestricted.
2018-11-16T16:05:27.536+0530 I CONTROL [initandlisten]
```

2.

```
Command Prompt - mongo.exe
Microsoft Windows [Version 10.0.10240]
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C:\Users\IGP WITHZ>mongo.exe
MongoDB shell version v4.0.4
connecting to: mongodb://127.0.0.1:27017
Implicit session: session { "id" : UUID("f2cd33fc-d1f8-4bc9-94c8-c7e324962b34") }
MongoDB server version: 4.0.4
Server has startup warnings:
2018-11-16T16:05:27.532+0530 I CONTROL [initandlisten]
2018-11-16T16:05:27.533+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2018-11-16T16:05:27.534+0530 I CONTROL [initandlisten] **           Read and write access to data and configuration is u
nrestricted.
2018-11-16T16:05:27.536+0530 I CONTROL [initandlisten]
2018-11-16T16:05:27.539+0530 I CONTROL [initandlisten] ** WARNING: This server is bound to localhost.
2018-11-16T16:05:27.542+0530 I CONTROL [initandlisten] **           Remote systems will be unable to connect to this ser
ver.
2018-11-16T16:05:27.544+0530 I CONTROL [initandlisten] **           Start the server with --bind_ip <address> to specify
which IP
2018-11-16T16:05:27.547+0530 I CONTROL [initandlisten] **           addresses it should serve responses from, or with --
bind_ip_all to
2018-11-16T16:05:27.549+0530 I CONTROL [initandlisten] **           bind to all interfaces. If this behavior is desired,
start the
2018-11-16T16:05:27.551+0530 I CONTROL [initandlisten] **           server with --bind_ip 127.0.0.1 to disable this warn
ing.
2018-11-16T16:05:27.554+0530 I CONTROL [initandlisten]
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, memory utilization, etc)
```

3.

```
Microsoft Windows [Version 10.0.10240]
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C:\Users\IGP WITHZ>pip install pymongo
```

4.

```
Microsoft Windows [Version 10.0.10240]
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C:\Users\IGP WITHZ>python
Python 3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:05:16) [MSC v.1915 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> from pymongo import MongoClient
>>> client=MongoClient()
>>> db=client["Login_db"]
>>> collection=db["User_data"]
>>> mylist={"uname": "ishi", "password":"123ishi"}
>>> collection.insert_one(mylist)
<pymongo.results.InsertOneResult object at 0x02BF6968>
```

5.

```
> show dbs
Login_db      0.000GB
admin         0.000GB
config        0.000GB
local         0.000GB
mydatabase    0.000GB
> use Login_db
switched to db Login_db
> show collections
User_data
> db.User_data.find()
{ "_id" : ObjectId("5beeee01e4ef4011b8034cce"), "uname" : "ishi", "password" : "123ishi" }
>
```

6.

```
from pymongo import MongoClient
Client = MongoClient()
db = Client["Login_db"]
collection = db["User_data"]

u_name=input("Enter User name : ")
passw=input("Enter password : ")
for x in collection.find({},{"uname": 1, "password": 1}):
    name=str(x["uname"])
    password=str(x["password"])

if u_name==name and passw==password:
    print("Login Successful")
else:
    print("Login failed")
```

7.

```
Python 3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:05:16) [MSC v.1915 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\IGP WITHZ\Desktop\iiiiiiiiiiiiiii.py =====
Enter User name : ishi
Enter password : 123ishi
Login Successful
>>> |
```

8.

```
Python 3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:05:16) [MSC v.1915 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\IGP WITHZ\Desktop\iiiiiiiiiiiiiii.py =====
Enter User name : ishi
Enter password : 123ishi
Login Successful
>>>
===== RESTART: C:\Users\IGP WITHZ\Desktop\iiiiiiiiiiiiiii.py =====
Enter User name : dfg
Enter password : 123
Login failed
>>> |
```