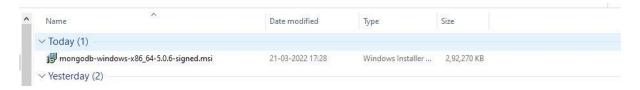
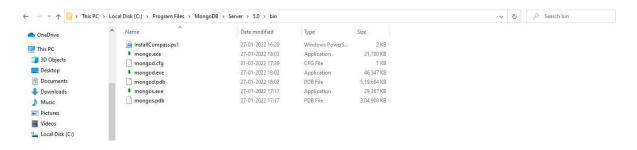
BIBD MINI PROJECT -MongoDB

STEP 1: We first need to install MongoDB in our pc.

We will do so by installing the installer.



STEP2: Then after installing installer successfully, we will run it on our pc and it will be downloaded successfully. In this case it is there on C drive.



STEP 3: After that we will open Command Prompt and we will assign the path folder on cmd.



STEP 4: After this we will type command:

mongo

It is used to connect to the database server on localhost.

Step5:To show databases, command will be:

Show databases

Databases in the server will be shown

```
---
> show databases
admin 0.000GB
config 0.000GB
local 0.000GB
>
```

Can use the database admin here and then we will show the collections in the database.

```
> use admin
switched to db admin
> show collections
system.version
>
```

Step 6:Now in case we stopped the MongoDB Server we will face this

```
C:\Program Files\MongoDB\Server\5.0\bin>mongo
MongoDB shell version v5.0.6
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Error: couldn't connect to server 127.0.0.1:27017, connection attempt failed: SocketException: Error connecting to 127.0.0.1:27017 :: caused by :: No connection could be made because the target machine actively refused it. :
connect@src/mongo/shell/mongo.js:372:17
@(connect):2:6
exception: connect failed
exiting with code 1

C:\Program Files\MongoDB\Server\5.0\bin>
```

Step 7: Then again we will start MongoDB server and then we will try to connect to server again. We have done it by using localhost and port number that is 27017 by default.

It has successfully connected to the server.

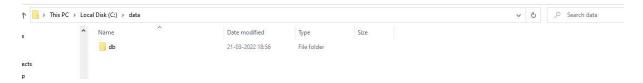
Step 8: Now by stopping server again, we will put the another command which is a server program.

mongod

```
C.YPTOGRAM Files MongoDoNserver\S. 0\binxmongod

(".si) disabled mote of the state of the state
```

Step 9: Now we faced an error. We need to create a new folder in C drive.



We will run the command mongod again

Step 10: Now we will be creating a new user in admin database

```
> show databases
admin  0.000GB
config  0.000GB
local  0.000GB
> use admin
switched to db admin
> db.createUser({user: "admin1", pwd: "root123", roles: ["root"]})
Successfully added user: { "user" : "admin1", "roles" : [ "root" ] }
> db.createUser({user: "root", pwd: "root12", roles:["root"]})
Successfully added user: { "user" : "root", "roles" : [ "root" ] }
>
```

Showing the users

Step 11: To create a database and insert a document to collection

```
> use codejava
switched to db codejava
> db.inventory.insertOne({name: "Textbook"})
uncaught exception: WriteCommandError({
        "ok": 0,
        "ermsg": "command insert requires authentication",
        "code": 13,
        "codeName": "Unauthorized"
}):
WriteCommandError({
        "ok": 0,
        "errmsg": "command insert requires authentication",
        "code": 13,
        "codeName": "Unauthorized"
})
writeCommandError({
        "ok": 0,
        "errmsg": "command insert requires authentication",
        "code": 13,
        "codeName": "Unauthorized"
})
writeCommandError@src/mongo/shell/bulk_api.js:421:48
executeBatch@src/mongo/shell/bulk_api.js:936:23
3ulk/this.execute@src/mongo/shell/bulk_api.js:1182:21
DBCollection.prototype.insertOne@src/mongo/shell/crud_api.js:264:9
g(shell):1:1
```

Step 12: As it is showing that it is unauthorized, we need to provide username and password.

```
C:\Program Files\MongoDB\Server\5.0\bin>mongo -u admin1 -p root123
MongoDB shell version v5.0.6
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("54ac0f6c-a4eb-477b-9208-e4f78dc81476") }
MongoDB server version: 5.0.6
==============
```

Now to check that it is successful.

```
> use codejava
switched to db codejava
> db.inventory.insertOne({name: "Textbook"})
{
        "acknowledged" : true,
        "insertedId" : ObjectId("623895da514317fa61a8177c")
}
> use codejava
switched to db codejava
> db.inventory.insertOne({name: "Compass"})
{
        "acknowledged" : true,
        "insertedId" : ObjectId("62389680514317fa61a8177d")
}
```

Step 13: Now in order to find inventory.

```
/
> db.inventory.find()
{ "_id" : ObjectId("623895da514317fa61a8177c"), "name" : "Textbook" }
{ "_id" : ObjectId("62389680514317fa61a8177d"), "name" : "Compass" }
{ "_id" : ObjectId("6238977b85eaeebe11a208da"), "name" : "Pencil" }
>
```

Step 14: Now we will create an index. We have also created an unique index that allows us to ensure that there is at most 1 record in the collection with a given value for field.

Step 15:Now in order to drop an index we will use.

```
> db.admin.dropIndex("email_3")
{ "nIndexesWas" : 5, "ok" : 1 }
>
```

Step 16: To shutdown the server we will use

```
> db.shutdownServer()
server should be down...
> exit
bye
```