Task 10 CRUD Operations in Documents Database

Dt: 14/10/25

Aim: To perform mongoose using NPM design an Mongoose designing document database and performing CRUD operations like creating, inserting, quering, finding and removing opelations

Steps:

Step 1 : install Mongo db using following link

https://www.mongodb.com/try/download/community

Step 2: install mongosh using the below link

https://www.mongodb.com/docs/mongodb-shell/#download-and-install-mongosh

Step 3: To add the Mongo DB Shell Binary's location to your path environment variables:

open the control Panel

In the System and security Category, click System.

Click Advanced System settings. The System properties modal displays.

Click Environment Variables

In the System variables section, Select Path and click Edit. The Edit Environment Variable modal displays.

click new and add the file path to your mongosh binary

Click ok to confirm your changes. on each other modal, click ok to confirm your changes.

To confirm that your PATH environment variable is correctly configured to find Mongosh, open a command prompt and enter the mongosh --help command.

If your PATH is configured correctly, a list of valid Commands displays.

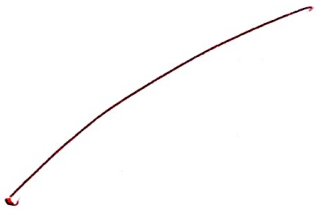
Step 4: Open mongo shell 4.0 from C:\Program files\MongoDB\Server\bin\mongod.exe

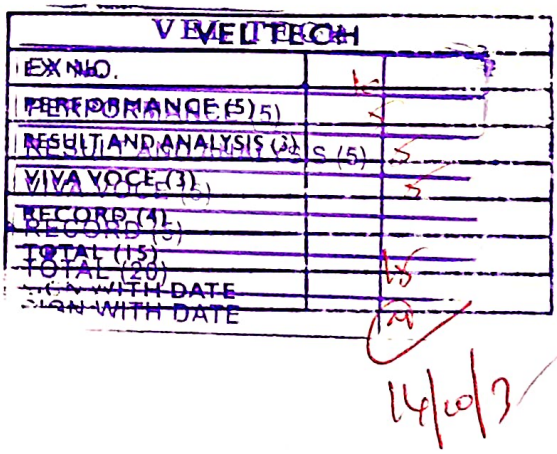
Steps : Type the CURD (CREATE READ UPDATE DELETE) Commands GNEN IN TEXT FILE.

CRUD OPERATIONS :

db. create collections ("my bab")
{ "ok" : 1 }
> db. mybb . insertone ({ item :"canvas", qty : 100, tags : ["cotton"], Size : {h: 28, W: 35.5, um :" cm"}})
{
"acknowledge" : true,
"Inserted id" : objectId ("627d1 Bacc739QC D74e6397c")
}
>db. mylab. find ({item : "canvas"})
{"id : objectId ("627d13acc739074e6397a"), " item ": "canvas", "qty":1
"tags" : ["cotton"], "size" : "{ "h":28," w": 35.5, " 4om": "cm"}}
>
db. mybb . insert many ({item : " Journal ", qty:25, tags: ["black", "red
Size : {h : 14, W: 21, 4cm : "cm"}} , {item :" mav", qty : 85, tags:["gray"]
Size : {h : 27.9, W: 35.5. 4cm: "cm"}} ,
{item : "mouse pad", qty :25, tags :["gel", "bulue], size ;
{h : 19, W: 22.85, com : "cm"}})
"acknowledged" : true,
"insertedIds" : [objectId ("627d1598C7399D0CD74e6397d"),
{objectId ("627d1598C7399DCD74e6397e"),
{objectId ("627d1598C7399DCD74e6397f").
]
}
>db. mylab . find ({} ,{item : 1, qty : 1})
{"id" : objectId ("627d13acc73990 c074e63970 "), "item" : "can
{"id " : objectId ("627d1598c 73990C074e6397d"), "item" : "journal",
"qty" : 25}
{"id" : objectid {"627d1598C73990C074e397e"), "item" : mat ", "qty"
:85}

```
}
> db.mylab.delete one({item : "journal"})
::::
>db.my.lab.delete one({}, {item:1, qty:1}).pretty()
{
 "Id" : objectId ("627d13acc73990c074ec39c"), "Item": Canvas,
  "qty":100
}
{
"_id" : objectId ("627d1596c73990c074ec397d"), "Item": journal",
"qty":25
}
{"_id":objectId ("627d1598c7399c074ec397e"); Item":"mat",
 "qty":85}
{
 "_id": objectId ("627d1598c7390c074ec397f"); Item": "mousepad
   "qty":25}
```





Result:

The implementation of CRUD operations like creating, inserting finding and removing operations mongoDB is successfully executed.