25-9-25

Task-10: Crud Operations in Document Database

Aim:- To perform Mongoose using NPM design on MongoDB designing document database and Performing CRUD operations like creating, inserting, quering, finding and removing operations.

STEPS:

Step 1> Install Mongo db using following link

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

Step 2> Install Mongosh using the below link.

http://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 variable:

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 filepath 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

Step 5> Type the CRUD (create read update delete) Commands given in text file

CRUD OPERATIONS

db.create collection("mylab")
{"ok":1}

>db.mylab.insertone({item:"canvas", qty:100, tags:["cotton"],
   size:{h:28, w:35.5, uom:"cm"}})
{
   "acknowledge":true,
   "Insertedid":objectId("627d13acc73990c074e6397c")
}

>db.mylab.find({item:"canvas"})
{"-id":object-id("627d13acc73990c074e6397c"), "item": "canvas",
"qty":100, "tags":["cotton"], "size":{"h":28, "w":35.5, "uom": "cm"}}

```
>db.mylab.insertMany ([{item:"Journal",qty:25,tags:[blank
size:{h:14,w:21,uom:"cm"}}, {item:"mat",qty:85,tags:["gray
Size :{h:27.9,w:35.5,uom:"cm"}}, {item:"mousePad",qty:25,tag
["gel","blue"],size :{h:19,w:22.85,uom:"cm"}}])
{
"acknowledged":true,
"InsertedIds":[
        ObJectID("627d1598c73990c074e6397d"),
        ObJectID("627d1598c73990c074e6397e"),
        ObJectID("627d1598c73990c074e6397f"),
    ]
}
>db.mylab.find({}, {item:1,qty:1})
{"_id": obJectId("627d13acc73990c074e6397c"),"item":"canvas","qty":10
{"_id": obJectId("627d13acc73990c074e6397d"),"item":"Journal","qty":2
{"_id":obJectId("627d13acc73990c074e6397e"),"item":"mat","qty":85
{"_id":obJectId("627d13acc73990c074e6397e"),"item":"mousePad","qty":2
>db.mylab.find({}, {item:1,qty:1}).Pretty()
{
"_id":obJectId("627d13acc73990c074e6397c"),
"item":"Canvas",
"qty":100
}
{
"_id":obJectId("627d13acc73990c074e6397d"),
"item":"Journal"
"qty":25
}
{
"_id":obJectId("627d13acc73990c074e6397e"),
"item":"mat"
"qty":85
}
{
"_id":obJectId("627d13acc73990c074e6397e"),
"item":"mousePad"
"qty":25
}
>db.mylab.find({item:"canvas"}).Pretty().sort({item:-1})
{
"_id":obJectId("627d13acc73990c074e6397c"),
"item":"canvas",
"qty":100,        "tags":["cotton"],
```

```
"size" : { "h" : 28, "w" : 35.5, "uom" : "cm" }
}
>db.mylab.deleteone ({item : "Journal"})
....
....
>db.mylab.find ({}, {item:1, qty:1}).pretty()
{
"_id" : Objectid ("627d13acc7399 0c074e6397c"),
"item" : "canvas"
"qty" : 100
}
{
"_id" : Objectid ("627d1598C73990c074e6397d"),
"item" : "Journal",
"qty" : 25
}
{
"_id" : Objectid ("627d1598C73990c074e6397e"),
"item" : "mat",
"qty" : 85
}
{
"_id" : Objectid ("627d1598C73990c074e6397f"),
"item" : "mousepad",
"qty" : 25
}
```

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Result :- The implementation of CRUD operations like creating, inserting, finding and removing operations using MongoDB is successfully executed.