

Task 9

CRUD operations in Document databases
perform Mongoose using NPM design
on MongoDB designing document database
and performing CRUD operations like
creating, inserting, querying, finding,
removing operations

AIM

To perform Mongoose using NPM design
on MongoDB designing document database
and performing CRUD operations like
creating, inserting, querying, finding,
removing operations.

STEPS:

step 1) install MongoDB using following link
<https://www.mongodb.com/try/downloadcommunity>

step 2) install Mongosh using the below link
<https://www.mongodb.com/docs/mongodb-shell>

step 3) To add the MongoDB shell binary's
location to your PATH environment
variable:

open the Control Panel.

In the system and security category, click ^{system} 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.

step 4) open mongo shell 4.0 from c:\program files\mongo\bin\mongo.exe

step 5) Type the CRUD (CREATE READ UPDATE DELETE) COMMANDS GIVEN IN TEXT FILE

CRUD OPERATIONS:

```
db.createCollection("mylab3")
{"ok":1}
```

```
>
db.mylab3.insertOne({item:"canvas",qty:100,
+tags:["cotton"],size:{h:28,w:35.5,uom:"cm"}
+{
```

```
"acknowledged":true,
```

```
"insertedId":ObjectId("627d13acc73990c074e6397c")
}
```

```
> db.mylab3.find({item:"canvas"})
{"_id":ObjectId("627d13acc73990c073990c074e6397c"), "Item":
"Canvas", "qty":100, "tags":1 ["cotton"],
"size": {"h":28, "w":35.5, "uom": "cm"}}
```

```
db.mylab3.insertMany([ {item:"journal",
qty:25, tags:["blank", "red"], 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, tags:["gel", "blue"],
size: {h:19, w:22.85, uom: "cm"} } ])
```

```

> db.mylab3.insertMany({item: "journal",
  qty: 25, tags: ["blank", "red"], 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,
  tags: ["gel", "blue"], size: {h: 19, w: 22.85,
  uom: "cm"}}])
{

```

```

  "acknowledged": true,

```

```

  "insertedIds": [

```

```

    ObjectId("627d1598c73990c074e6397d"),

```

```

    ObjectId("627d1598c73990c074e6397e"),

```

```

    ObjectId("627d1598c73990c074e6397f")
  ]
}

```

```

> db.mylab3.find({item: 1, qty: 1})

```

```

{ "_id": ObjectId("627d13acc73990c074e6397c"),

```

```

  "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 }

```

```

> db.mylab3.find({item: 1, qty: 1}).
pretty()

```

```

{ "_id": ObjectId("627d13acc73990c074e6397c"),
  "item": "canvas",

```

"qty": 100

{

"_id": ObjectId("627d1598c73990c074e6397d"),

"item": "journal",

"qty": 25

}

{ "_id": ObjectId("627d1598c73990c074e6397e"), "item": "mat",

"qty": 85 }

{

"_id": ObjectId("627d1598c73990c074e6397f"),

"item": "mouse pad",

"qty": 100,

"tags": [

"cotton"

],

"size": {

"h": 28,

"w": 35.5,

"uom": "cm"

}

}

> db.myLab3.deleteOne({item: "journal"});

> db.myLab3.find({},{_id: 1, qty: 1},

pretty())

{

"_id": ObjectId("627d13acc73990c074e6397c"),

"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

}

Result:

Thus CRUD using VPM design on MongoDB designing document database

VEL TECH - CSE	
EX NO.	9
PERFORMANCE (5)	8
RESULT AND ANALYSIS (3)	8
VIVA VOCE (3)	5
RECORD (4)	15
TOTAL (15)	36
SIGNATURE	