

CRUD operations in Document database

Aim:-

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

Steps:-

- S-① Install mongo db using following link
<https://www.mongodb.com/try/download/community>
- S-② install mongosh using the link
<https://www.mongodb.com/docs/mongodb-shell/>
- S-③ To add the mongoDB shell binary's location 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 variable sections, select path and click edit. The edit environment variable modal displays.
- S-④ open mongo shell 4.0 from
 C:\program files\mongoDB\server\bin\mongod.exe
- S-⑤ Type the CRUD (CREATE READ UPDATE DELETE) COMMANDS given in text file.

CRUD operations:-

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

```
>
db.mylab.insertOne({item:"Canvas",qty:100,tags:
  :["Cotton"],Size:{h:28,W:35.5, uom:"cm"}
})
{
  "acknowledged":true
}
```

insertedId": [

object id("627d1598c73990c074e6397d")

object id("627d1598c73990c074e6397d")

"item": "canvas", "qty": 100

object id("627d1598c73990c074e6397e"),

object id("627d1598c73990c074e6397f"),

]

}
- db.mylab.find({}, {item: 1, qty: 1})

{ "_id": object id("627d13acc73990c074e6397c"),

"item": "canvas", "qty": 100

{ "_id": object id("627d1598c73990c074e6397d"),

"item": "journal", "qty": 25

{ "_id": object id("627d1598c73990c074e6397e"),

"item": "mat", "qty": 85

{ "_id": object id("627d1598c73990c074e6397f"),

"item": "mousepad", "qty": 25

{
 "_id": object id("627d13acc73990c074e6397c"),

"item": "journal",

"qty": 100

}
}

"_id": object id("627d1598c73990c074e6397d")

"item": "canvas",

"qty": 25

}
}

{
 "_id": object id("627d13acc73990c074e6397c"),

"item": "canvas",

"qty": 100,

"tags": [

"cotton"

],

"size": {

"h": 28,

"w": 35.5,

"uom": "cm"

}

}

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


```

> db.mylab.find({item: 'qty: 15').pretty()
{
  "_id": ObjectId("627d1598c73990c074e6397e"),
  "item": "journal",
  "qty": 25
}
{
  "_id": ObjectId("627d1598c73990c074e6397e"),
  "item": "mat", "qty": 85
}
{
  "_id": ObjectId("627d1598c73990c074e6397e"),
  "item": "mousepad", "qty": 25
}

```

VEL TECH CSE	
EX NO	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	15
TOTAL (20)	50
SIGN WITH DATE	12/10

VEL TECH	
EX No.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (3)	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Result:-

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