Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)
School of Computing
B.Tech. – Computer Science and Engineering

VTR UGE2021- (CBCS)

Academic Year: 2025–2026

SUMMER SEMESTER - SS2526

Course Code   : 10211CS207

Course Name : Database Management Systems

Slot No   :S1L4

DBMS TASK - 8 REPORT

Title: CRUD operations in Document databases

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TASK 8

CRUD operations in Document databases

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 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 MongoDB Shell binary's location to your PATH environment variable:

3.1 Open the Control Panel.

3.2 In the System and Security category, click System.

3,3 Click Advanced system settings. The System Properties modal displays.

3.4 Click Environment Variables.

3.5 In the System variables section, select path and click Edit. The Edit environment

variable modal displays.

3.6 Click New and add the filepath to your mongosh binary.

3.7 Click OK to confirm your changes. On each other modal, click OK to confirm

your changes.

Step 4: 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 5: Open mongo shell 4.0 from
c:\programfiles\mongoDB\server\bin\mongod.exe

Step 6: Type the CRUD(CREATE READ UPDATE DELETE) COMMANDS GIVEN IN
    TEXT FILE.

CRUD OPERATIONS:

```
db.createCollection("CricketBorad")
```

```
{ "ok" : 1 }
```

```
> db.CricketBoard.insertOne({BoardID: "BID01", Name:"Chennai Cricket Board",
Address:"Chennai",Phone:9988776699});
```

```
{
     "acknowledged" : true,
     "insertedId" : ObjectId("651cf1726ebbfe7993adf909")
}
db.mylab.find({BoardID:"BID01"})
```

```
{ "_id" : ObjectId("651cf1726ebbfe7993adf909"), "BoardID" : "BID01", "Name" :
"Chennai Cricket Board", "Address" : "Chennai", "Phone" : 9988776699 }
```

```
db.CricketBoard.insertMany([{BoardID:"BID02",Name:"Tiruvallur Cricket
Board",Address:"Chennai",Phone:9977886699},{BoardID:"BID03",Name:"Viluppuram
Cricket
Board",Address:"Viluppuram",Phone:9966886699},{BoardID:"BID04",Name:"Trichy
Cricket
Board",Address:"Trichy",Phone:9955886699},{BoardID:"BID05",Name:"Madurai
Cricket Board",Address:"Madurai",Phone:9944886699}]);
```

```
{
     "acknowledged" : true,
     "insertedIds" : [
          ObjectId("651ceee36ebbfe7993adf904"),
```

```
                ObjectId("651ceee36ebbfe7993adf905"),
                ObjectId("651ceee36ebbfe7993adf906"),
                ObjectId("651ceee36ebbfe7993adf907")
        ]
}
```

db.CricketBoard.find()

{ "_id" : ObjectId("651ceee36ebbfe7993adf904"), "BoardID" : "BID02", "Name" : "Tiruvallur Cricket Board", "Address" : "Chennai", "Phone" : 9977886699 }

{ "_id" : ObjectId("651ceee36ebbfe7993adf905"), "BoardID" : "BID03", "Name" : "Viluppuram Cricket Board", "Address" : "Viluppuram", "Phone" : 9966886699 }

{ "_id" : ObjectId("651ceee36ebbfe7993adf906"), "BoardID" : "BID04", "Name" : "Trichy Cricket Board", "Address" : "Trichy", "Phone" : 9955886699 }

{ "_id" : ObjectId("651ceee36ebbfe7993adf907"), "BoardID" : "BID05", "Name" : "Madurai Cricket Board", "Address" : "Madurai", "Phone" : 9944886699 }

{ "_id" : ObjectId("651cf1726ebbfe7993adf909"), "BoardID" : "BID01", "Name" : "Chennai Cricket Board", "Address" : "Chennai", "Phone" : 9988776699 }

db.CricketBoard.find().pretty()
```
{
        "_id" : ObjectId("651ceee36ebbfe7993adf904"),
        "BoardID" : "BID02",
        "Name" : "Tiruvallur Cricket Board",
        "Address" : "Chennai",
        "Phone" : 9977886699
}
{
        "_id" : ObjectId("651ceee36ebbfe7993adf905"),
        "BoardID" : "BID03",
        "Name" : "Viluppuram Cricket Board",
        "Address" : "Viluppuram",
        "Phone" : 9966886699
}
{
        "_id" : ObjectId("651ceee36ebbfe7993adf906"),
```

```
            "BoardID" : "BID04",
            "Name" : "Trichy Cricket Board",
            "Address" : "Trichy",
            "Phone" : 9955886699
}
{

            "_id" : ObjectId("651ceee36ebbfe7993adf907"),
            "BoardID" : "BID05",
            "Name" : "Madurai Cricket Board",
            "Address" : "Madurai",
            "Phone" : 9944886699
}
{

            "_id" : ObjectId("651cf1726ebbfe7993adf909"),
            "BoardID" : "BID01",
            "Name" : "Chennai Cricket Board",
            "Address" : "Chennai",
            "Phone" : 9988776699
}


db.CricketBoard.deleteOne({BoardID:"BID03"})

{ "acknowledged" : true, "deletedCount" : 1 }

db.CricketBoard.find().pretty()

{

            "_id" : ObjectId("651ceee36ebbfe7993adf904"),

            "BoardID" : "BID02",

            "Name" : "Tiruvallur Cricket Board",

            "Address" : "Chennai",

            "Phone" : 9977886699

}

{

            "_id" : ObjectId("651ceee36ebbfe7993adf906"),
```

```
        "BoardID" : "BID04",

        "Name" : "Trichy Cricket Board",

        "Address" : "Trichy",

        "Phone" : 9955886699

}

{

        "_id" : ObjectId("651ceee36ebbfe7993adf907"),

        "BoardID" : "BID05",

        "Name" : "Madurai Cricket Board",

        "Address" : "Madurai",

        "Phone" : 9944886699

}

{

        "_id" : ObjectId("651cf1726ebbfe7993adf909"),

        "BoardID" : "BID01",

        "Name" : "Chennai Cricket Board",

        "Address" : "Chennai",

        "Phone" : 9988776699

}
```

Result:

Thus CRUD using NPM design on MongoDB designing document database and performing CRUD operations like creating, inserting, querying, finding, removing operations are performed.