

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)



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Course Code : 10211CS207

Course Name : Database Management Systems

Slot No :S1L4

DBMS TASK - 8 REPORT

Title: CRUD operations in Document databases

Submitted by:

VTUNO	REGISTER NUMBER	STUDENT NAME
VTU29083	24UECS0586	G.Tushar

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("CricketBoard")
```

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

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

```
{  
  "acknowledged" : true,  
  "insertedId" : ObjectId("651cf1726ebbf7993adf909")  
}
```

```
db.mylab.find({BoardID:"BID01"})
```

```
{ "_id" : ObjectId("651cf1726ebbf7993adf909"), "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("651ceee36ebbf7993adf904"),
```

```

        ObjectId("651ceee36ebbf7993adf905"),
        ObjectId("651ceee36ebbf7993adf906"),
        ObjectId("651ceee36ebbf7993adf907")
    ]
}

```

```
db.CricketBoard.find()
```

```

{ "_id" : ObjectId("651ceee36ebbf7993adf904"), "BoardID" : "BID02", "Name" :
"Tiruvallur Cricket Board", "Address" : "Chennai", "Phone" : 9977886699 }

{ "_id" : ObjectId("651ceee36ebbf7993adf905"), "BoardID" : "BID03", "Name" :
"Viluppuram Cricket Board", "Address" : "Viluppuram", "Phone" : 9966886699 }

{ "_id" : ObjectId("651ceee36ebbf7993adf906"), "BoardID" : "BID04", "Name" :
"Trichy Cricket Board", "Address" : "Trichy", "Phone" : 9955886699 }

{ "_id" : ObjectId("651ceee36ebbf7993adf907"), "BoardID" : "BID05", "Name" :
"Madurai Cricket Board", "Address" : "Madurai", "Phone" : 9944886699 }

{ "_id" : ObjectId("651cf1726ebbf7993adf909"), "BoardID" : "BID01", "Name" :
"Chennai Cricket Board", "Address" : "Chennai", "Phone" : 9988776699 }

```

```
db.CricketBoard.find().pretty()
```

```

{
  "_id" : ObjectId("651ceee36ebbf7993adf904"),
  "BoardID" : "BID02",
  "Name" : "Tiruvallur Cricket Board",
  "Address" : "Chennai",
  "Phone" : 9977886699
}
{
  "_id" : ObjectId("651ceee36ebbf7993adf905"),
  "BoardID" : "BID03",
  "Name" : "Viluppuram Cricket Board",
  "Address" : "Viluppuram",
  "Phone" : 9966886699
}
{
  "_id" : ObjectId("651ceee36ebbf7993adf906"),

```

```

    "BoardID" : "BID04",
    "Name" : "Trichy Cricket Board",
    "Address" : "Trichy",
    "Phone" : 9955886699
  }
  {
    "_id" : ObjectId("651ceee36ebbf7993adf907"),
    "BoardID" : "BID05",
    "Name" : "Madurai Cricket Board",
    "Address" : "Madurai",
    "Phone" : 9944886699
  }
  {
    "_id" : ObjectId("651cf1726ebbf7993adf909"),
    "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("651ceee36ebbf7993adf904"),
  "BoardID" : "BID02",
  "Name" : "Tiruvallur Cricket Board",
  "Address" : "Chennai",
  "Phone" : 9977886699
}
{
  "_id" : ObjectId("651ceee36ebbf7993adf906"),

```

```
"BoardID" : "BID04",  
"Name" : "Trichy Cricket Board",  
"Address" : "Trichy",  
"Phone" : 9955886699  
}  
  
{  
  "_id" : ObjectId("651ceee36ebbf7993adf907"),  
  "BoardID" : "BID05",  
  "Name" : "Madurai Cricket Board",  
  "Address" : "Madurai",  
  "Phone" : 9944886699  
}  
  
{  
  "_id" : ObjectId("651cf1726ebbf7993adf909"),  
  "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.