**Name :** Rohit Bangar **Class :** TE-C **Roll No :** TECOC306 **Batch :** C1

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**Assignment-13**

**Title: MongoDB JDBC Connectivity**

import com.mongodb.MongoClient;

import com.mongodb.MongoException;

import com.mongodb.WriteConcern;

import com.mongodb.DB;

import com.mongodb.DBCollection;

import com.mongodb.BasicDBObject;

import com.mongodb.DBObject;

import com.mongodb.DBCursor;

import com.mongodb.ServerAddress;

import java.util.\*;

public class mongo

{

public static void main( String args[] )

{

Try

{ // To connect to mongodb server

MongoClient mongoClient = new MongoClient( "localhost" , 27017 );

DB db = mongoClient.getDB( "pccoe1" ); System.out.println("Connect to database successfully"); System.out.println("Enter Name Of Collection");

Scanner s=new Scanner(System.in);

String colname=s.nextLine();

DBCollection coll = db.createCollection(colname,null); System.out.println("Collection created successfully");

DBCollection col = db.getCollection(colname); System.out.println("Collection "+colname+" selected successfully"); Set<String> collections = db.getCollectionNames(); System.out.println(collections);

while(true)

{

System.out.println("What operation U Want to Perform \n1.Insert \n2.Retrive \n3.Update \n4.Delete\n");

int ch=s.nextInt();

switch(ch)

{

case 1:

System.out.println("Inserting Into Collection\nInserted"); BasicDBObject doc = new BasicDBObject("title", "MongoDB1"). append("description", "database1").

append("likes", 1001).

append("url", "http://www.mongodb.com").

append("by", "MongoDB");

coll.insert(doc);

System.out.println("Document inserted successfully");

break;

case 2:

System.out.println("Retriving data...\nRetrived");

DBCursor cursor = coll.find();

int i=1;

while (cursor.hasNext())

{

System.out.println("Inserted Document: "+i); System.out.println(cursor.next());

i++;

}

break;

case 3:

System.out.println("Update Collection\n");

DBCursor cursor1 = coll.find();

while (cursor1.hasNext())

{

BasicDBObject updateDocument = (BasicDBObject) cursor1.next(); updateDocument.put("likes","200");

DBObject temp=updateDocument; coll.update(temp,updateDocument); } System.out.println("Document updated successfully");

cursor = coll.find();

int j=1;

while (cursor.hasNext())

{

System.out.println("Updated Document: "+j); System.out.println(cursor.next());

j++;

}

case 4:

DBObject myDoc = coll.findOne();

coll.remove(myDoc);

DBCursor cursor2 = coll.find();

int k=1;

while (cursor2.hasNext())

{

System.out.println("Inserted Document: "+k); System.out.println(cursor2.next());

k++;

}

System.out.println("Document deleted successfully");

}

}

}catch(Exception e)

{

System.err.println( e.getClass().getName() + ": " + e.getMessage() );

}

}

}