

Assignment No .12

Title of Assignment: Database Connectivity:

Write a program to implement MySQL/Oracle database connectivity with any front end language to implement Database navigation operations (add, delete, edit etc.)

Course Objective:

Implement PL/SQL Code block for given requirements

Course Outcome:

C306.6

Design and develop application considering actual requirements and using database concepts

Software required: - Mongodb/eclipse/ wampserver/php

Mongodb

Connectivity

Mongo

connection

Connect to MongoDB server. For MongoDB version $\geq 2.10.0$, uses MongoClient.

// Old version, uses Mongo

Mongo mongo = new Mongo("localhost", 27017);

// Since 2.10.0, uses MongoClient

MongoClient mongo = new MongoClient("localhost" ,

27017);If MongoDB in secure mode, authentication is

required.

MongoClient mongoClient = new

MongoClient();DB db =

mongoClient.getDB("database name");

boolean auth = db.authenticate("username", "password".toCharArray());

Mongo Database

Get database. If the database doesn't exist, MongoDB will create it

for you.DB db = mongo.getDB("database name");

Display all collections from selected

database.DB db =

mongo.getDB("testdb");

Save example

Save a document (data) into a collection (table) named

“user”.DBCollection table = db.getCollection("user");

BasicDBObject document = new

```
BasicDBObject();document.put("name",  
"mkyong"); document.put("age", 30);  
document.put("createdDate", new Date());  
table.insert(document);
```

Update example

Update a document where

“name=mkyong”. DBCollection table =

```
db.getCollection("user");
```

BasicDBObject query = new

```
BasicDBObject(); query.put("name",
```

```
"mkyong");
```

```
BasicDBObject newDocument = new BasicDBObject();
```

```
newDocument.put("name", "mkyong-updated");
```

```
BasicDBObject updateObj = new BasicDBObject();
```

```
updateObj.put("$set", newDocument);
```

```
table.update(query, updateObj);
```

Find example

Find document where “name=mkyong”, and display it with

```
DBCursorDBCcollection table = db.getCollection("user");
```

```
BasicDBObject searchQuery = new BasicDBObject();
```

```
searchQuery.put("name", "mkyong");
```

```
DBCursor cursor =
```

```
table.find(searchQuery);while
```

```
(cursor.hasNext()) {
```

```
    System.out.println(cursor.next());
```

```
}
```

Delete example

Find document where “name=mkyong”, and delete it. `DBCcollection table = db.getCollection("user");`

`BasicDBObject searchQuery = new BasicDBObject(); searchQuery.put("name", "mkyong");`

`table.remove(searchQuery);`

Conclusion: We have implemented database connectivity

Activity to be Submitted by Students

1. CRUD operation using MongoDB and JDBC connectivity