



DBSL lab

## Assignment 04 (Group-B)

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Title: Database connectivity

Problem Statement

Write a program to implement mongo DB database connectivity with any front-end language to implement database navigation operations.

Objectives

- Understand concept of connectivity between java & databases
- Understand how java can invoke CRUD operation.

Software & hardware requirements:

- 64-bit windows 10 operating system
- Intel i5-8th gen 4-core CPU,
- 8GB RAM & 512GB SSD storage
- mongoDB & eclipse updated to latest version.

Theory related concepts:

- Before starting with mongoDB ensure that you have MongoDB CLIENT & Java set up on a machine
- Connect to the database:
  - specify database name.
  - If database doesn't exist mongoDB creates it automatically.

```
MongoClient mongo = new MongoClient("localhost")  
MongoDatabase db = mongo.getDatabase("test")
```



### - Create a Collection

```
database.createCollection("students")
```

### - Selection Collection

```
MongoCollection<Document> collection =  
database.getCollection("students")
```

### - Insert a document

```
Document document = new Document("name", name).  
    .append("subject", subject).  
    .append("marks", marks);  
collection.insertOne(document)
```

### - Retrieve all documents

```
FindIterable<Document> iterDoc = collection.find();  
Iterator it = iterDoc.iterator();  
while (it.hasNext()) {  
    System.out.println(it.next());  
}
```

### - Update document

```
collection.updateOne(filters.eq("name", "Tony"),  
    Update.set("marks", 100));
```

### - Delete document

```
collection.deleteOne(filters.eq(namename, "Steve"));
```





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### Testcases:

I have attached separate file containing code & output screenshots of testcases.

### Conclusion:

Hence in this assignment I learned about connectivity of MongoDB with Java & implemented basic operations.