

# LAB #7

**Class Id:19**

**Name: Sidrah Junaid**

In this task we have to implement a rest services which apply CRUD operation on mLab using MongoDB driver on the project created in last lab that was calculating the volume of a cube and rectangle according to the provided parameters and the output will be produced by running on web server (Apache Tomcat).

Here, I create a document entry in mLab collection in database

This XML file does not appear to have any style information associated with it. The document tree is shown below.

---

```
▼ <conversion>
  <side>30</side>
  ▼ <output>
    @Produces("application/xml") Volume of cube: 27000
  </output>
</conversion>
```

Here, the creation is also reflecting in collection

ObjectLabs Corporation [US] <https://mlab.com/databases/asedemo1/collections/volume>

mLab

WELCOME PLANS + FEATURES PRICING DOCS + SUPPORT ACCOUNT LOG OUT

{ user: "sidrahjunaid11", account: "SidrahJunaid" }

Home: { db: "asedemo1" }

Collection: volume

Documents Indexes Stats Tools

Documents

Delete all documents in collection Add document

Start new search

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 1 of 1]

```
{
  "_id": {
    "$oid": "56e0abc6d998a61a4c03088a"
  },
  "length": 30,
  "Volume": 27000
}
```

records / page 10 [1 - 1 of 1]

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for `map/reduce` queries. To use `map/reduce`, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

Here, I updated the value of volume

A screenshot of a web browser's address bar. It features navigation icons (back, forward, refresh) on the left and a document icon on the right. The address bar is filled with the text 'localhost:8080/Lab7.rest/myrest/volume/update/27000/2000'.

Updated

Here, the updation is also reflecting in collection

The screenshot displays the mLab web interface for a MongoDB database. At the top, the mLab logo is on the left, and navigation links for 'WELCOME', 'PLANS + FEATURES', 'PRICING', 'DOCS + SUPPORT', 'ACCOUNT', and a 'LOG OUT' button are on the right. A user information string '{ user: "sidrahjunaid11", account: "SidrahJunaid" }' is shown in the top right corner.

The main content area is titled 'Collection: volume' with a link icon. Below this, there are four tabs: 'Documents' (which is active and highlighted in blue), 'Indexes', 'Stats', and 'Tools'. Under the 'Documents' tab, there are two buttons: 'Delete all documents in collection' (with a red 'X' icon) and 'Add document' (with a green '+' icon).

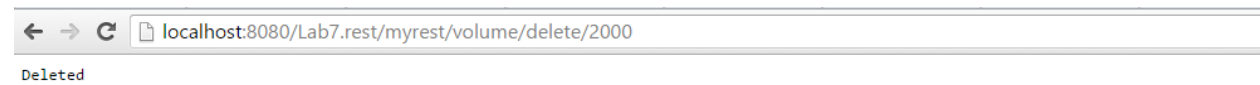
Below the buttons, there is a search bar with the placeholder text '--- Start new search ---'. The section is titled 'All Documents'. The 'Display mode' is set to 'list' (indicated by a selected radio button), with a link to 'edit table view'. The 'records / page' is set to '10', and the status '[1 - 1 of 1]' is shown.

The document list shows a single document with the following JSON structure:

```
{
  "_id": {
    "$oid": "56e0abc6d998a61a4c03088a"
  },
  "length": 30,
  "Volume": 2000
}
```

Below the document list, the 'records / page' is again set to '10', and the status '[1 - 1 of 1]' is shown. On the right side of the interface, there is a dark grey sidebar titled 'Documents (aka Objects)'. It contains two paragraphs of text: 'From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).' and 'You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).'

Here, I deleted the value of volume



Here, the deletion is also reflecting in collection

The screenshot shows the mLab web interface for a database named 'asedemo1'. The 'Documents' tab is selected, displaying a single document in a collection named 'volume'. The document is a JSON object with an '\_id' field containing a MongoDB ObjectId and a '\$oid' field containing a hexadecimal string. The interface includes a search bar, a 'Delete all documents in collection' button, and an 'Add document' button. A sidebar on the right provides information about documents and objects. The top navigation bar includes links for 'WELCOME', 'PLANS + FEATURES', 'PRICING', 'DOCS + SUPPORT', 'ACCOUNT', and 'LOG OUT'. The user is logged in as 'sidrahjunaid11'.

Home: (db: "asedemo1")  
Collection: volume

Documents Indexes Stats Tools

Documents ✖ Delete all documents in collection ➕ Add document

— Start new search —

All Documents

Display mode: ☒ list ☐ table (edit table view)

records / page 10 [1 - 1 of 1]

```
{
  "_id": {
    "$oid": "56e0abc6d998a61a4c03088a"
  }
}
```

records / page 10 [1 - 1 of 1]

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for `map/reduce` queries. To use `map/reduce`, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

## **Reference:**

Code provided in tutorial 7

<https://dzone.com/articles/basic-java-crud-operations>