Lab Assignment X
Report
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Task Name: Deployment of REST Web Applications to AWS Elastic Beanstalk

Application (I) Name: RESTful Java web Application.

URL: http://myapp.ceg3skr4fu.us-west-2.elasticbeanstalk.com/

Application Function: The application can be used to calculate area values of a square or rectangle or both. It's a web application so it can be run on any web browser. The default values of the side of square and length and breadth of rectangle are 10.0 and 10.0, 5.0 respectively. The user can pass the parameters to side of square and length & breadth of rectangle through URL.

Tools Used:
Eclipse
Apache Tomcat Server
AWS Elastic Beanstalk

Number of Pages: 4
Area.java
Rectarea.java
AreaTest.java
RectareaTest.java

Working:

1. Deployment in AWS

2. Area of square without Parameters.

3. Area of square with side value = 20.0 through URL.


```
myapp - Dashboard          ×    myapp.ceg3skr4fu.us-wes  ×
← ⇒ C   🗋 myapp.ceg3skr4fu.us-west-2.elasticbeanstalk.com/myrest/area/20

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

▼<conversion>
   <side>20.0</side>
  ▼<output>
     @Produces("application/xml") Area of Square: 400.0
   </output>
</conversion>
```
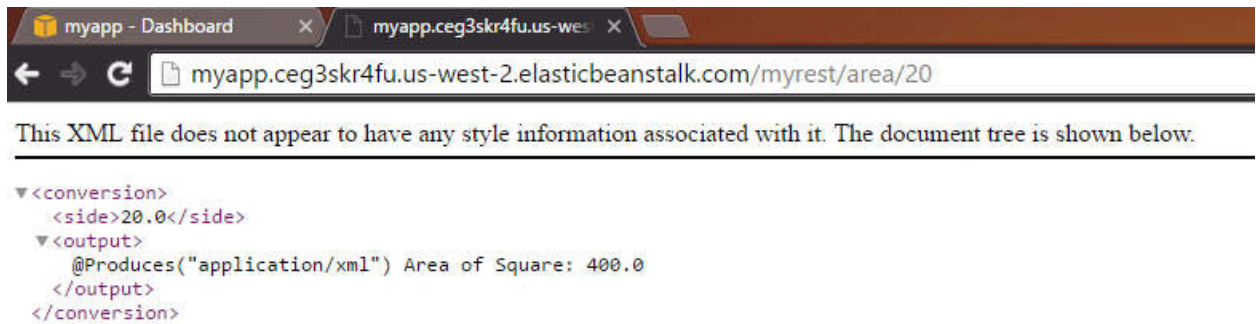
4. Area of rectangle with default values.


```
myapp - Dashboard          ×    myapp.ceg3skr4fu.us-wes  ×
← ⇒ C   🗋 myapp.ceg3skr4fu.us-west-2.elasticbeanstalk.com/myrest/rectarea

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

▼<areaofrectangle>
   <length>10.0</length>
   <breadth>5.0</breadth>
  ▼<area>
     @Produces("application/xml") Area of Rectangle: 50.0
   </area>
</areaofrectangle>
```

5. Area of rectangle with length = 20.0, breadth = 70.0 passed through URL.


```
myapp - Dashboard          ×    myapp.ceg3skr4fu.us-wes  ×
← ⇒ C   🗋 myapp.ceg3skr4fu.us-west-2.elasticbeanstalk.com/myrest/rectarea/20/70

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

▼<areaofrectangle>
   <length>20.0</length>
   <breadth>70.0</breadth>
  ▼<area>
     @Produces("application/xml") Area of Rectangle: 1400.0
   </area>
</areaofrectangle>
```

Application (II) Name: RESTful Java web Application with MongoDB Implementation.

Application Function: The application can be used to calculate area values of a rectangle and store it in MongoDB database. The user can perform CRUD(Create, Retrieve, Update, Delete) Operations on the values stored in MongoDB Database.

URL: http://mymongorestapp.wmvbbvtsrq.us-west-2.elasticbeanstalk.com/

Tools Used:
Eclipse
Apache Tomcat Server
MongoDB Software as a service (mlab.com)
AWS Elastic Beanstalk
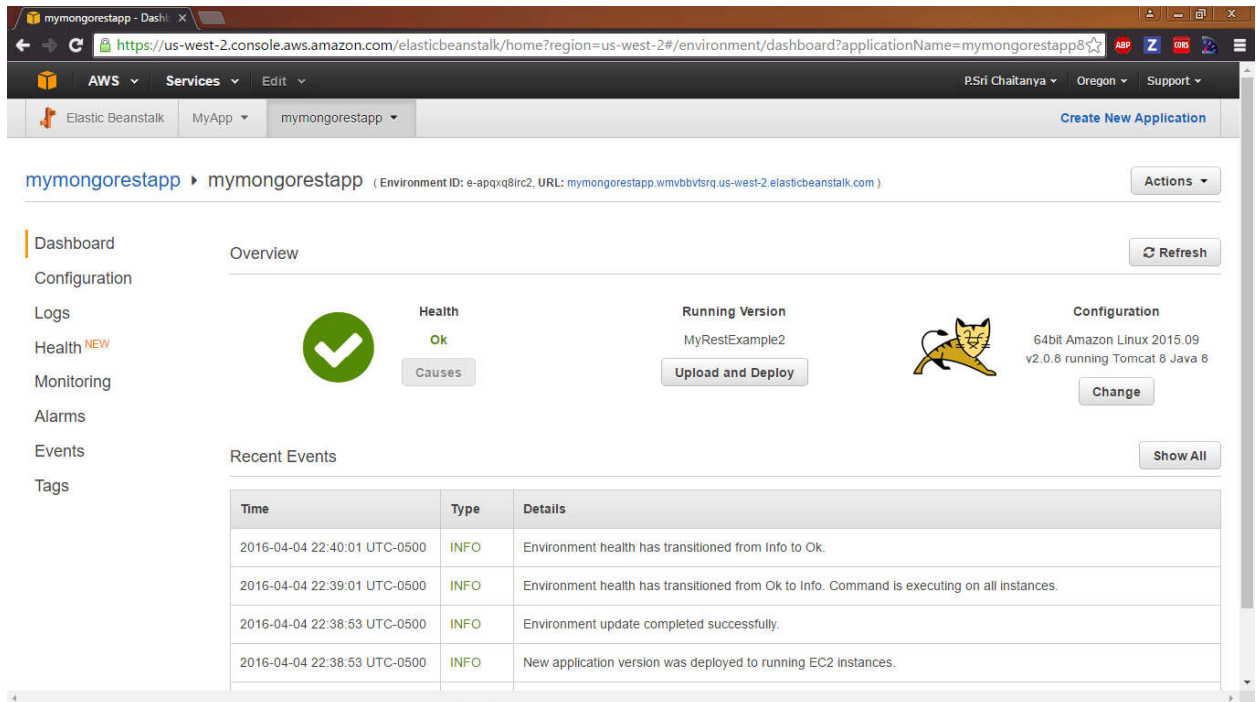
Number of Pages: 1
AreaRect.java
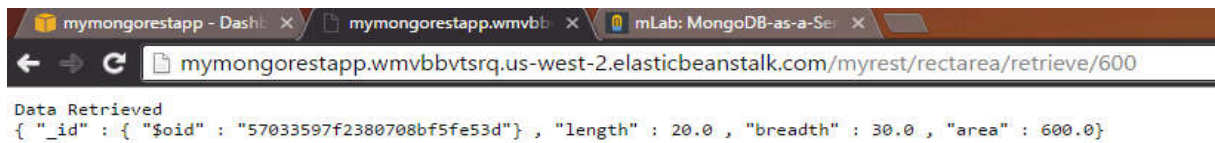
Working:

1. Deployment in AWS.

2. The area of rectangle can be computed by giving the length and breadth of the rectangle in the URL. The area of the rectangle is then computed and the values of Length, Breadth and Area are stored in mlab database in json format.
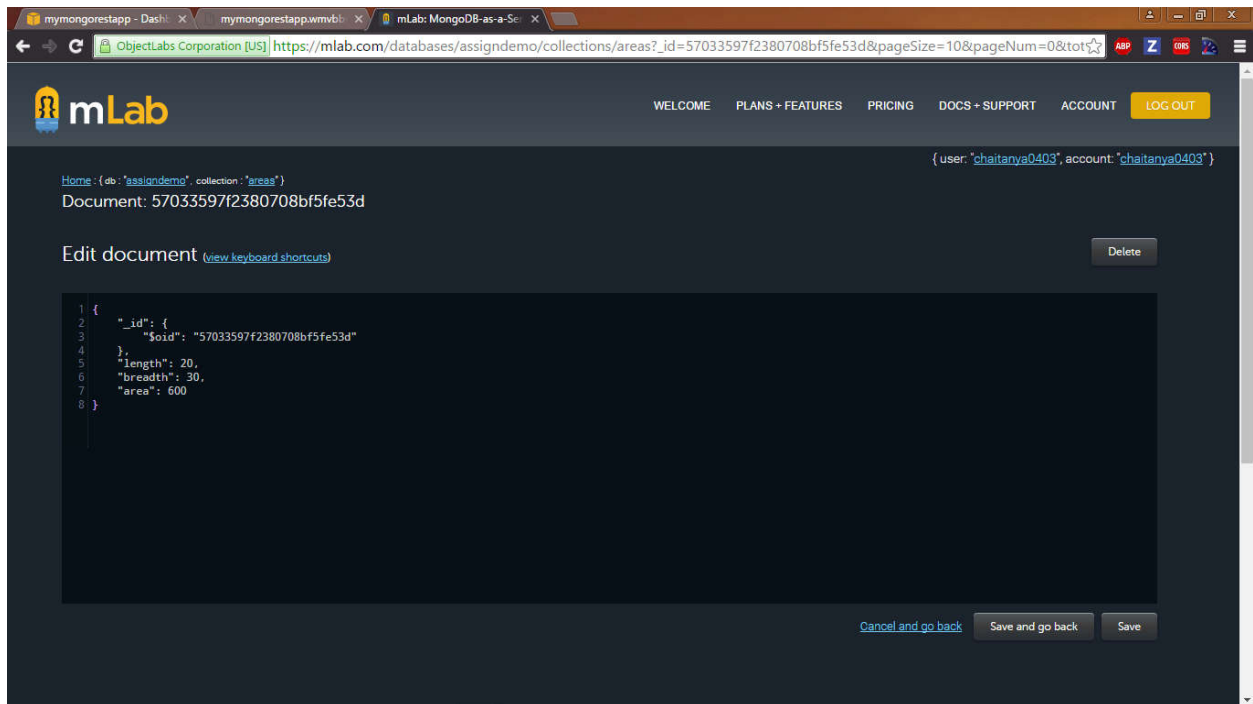
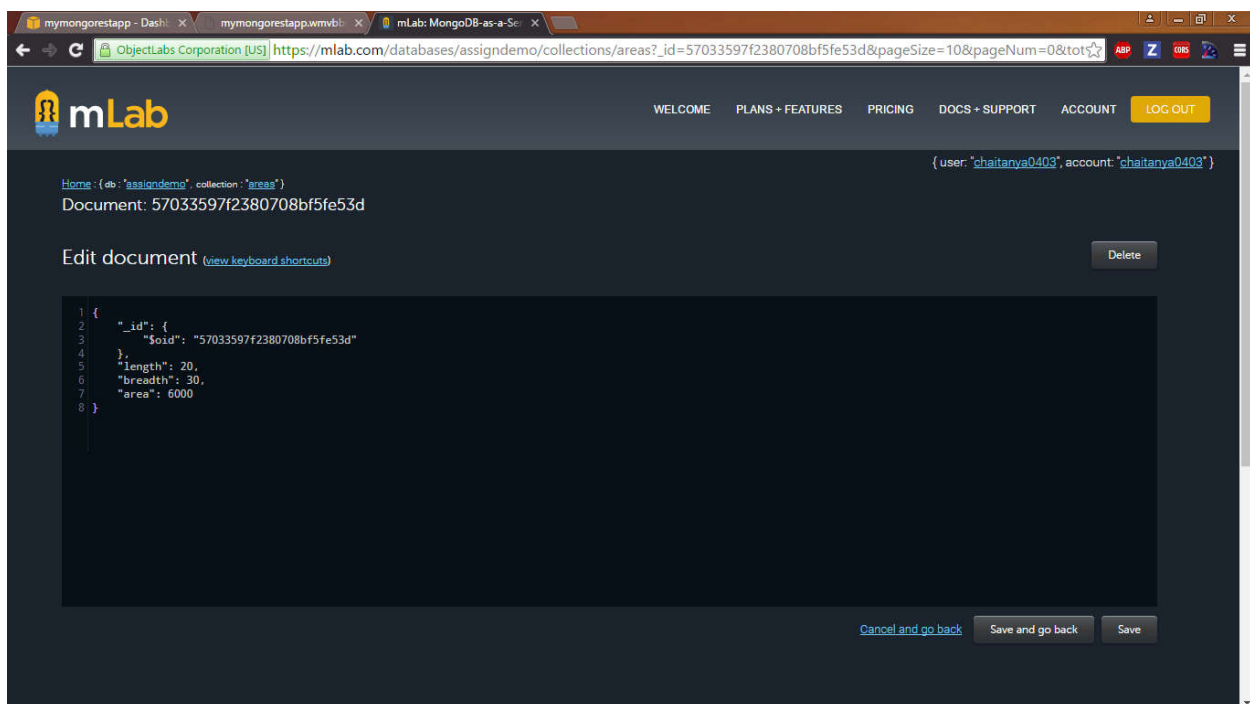3. The specific area json can be retrieved from the database by providing the area value in URL retrieve function.

4. The values of database can be updated by specifying the old and new value in the URL with update function.

5. The value can be deleted from the database by specifying it in URL with delete function.

Selected item Deleted