CS5551 – Advanced Software Engineering
Dr. Yugyung Lee
Assignment# 7

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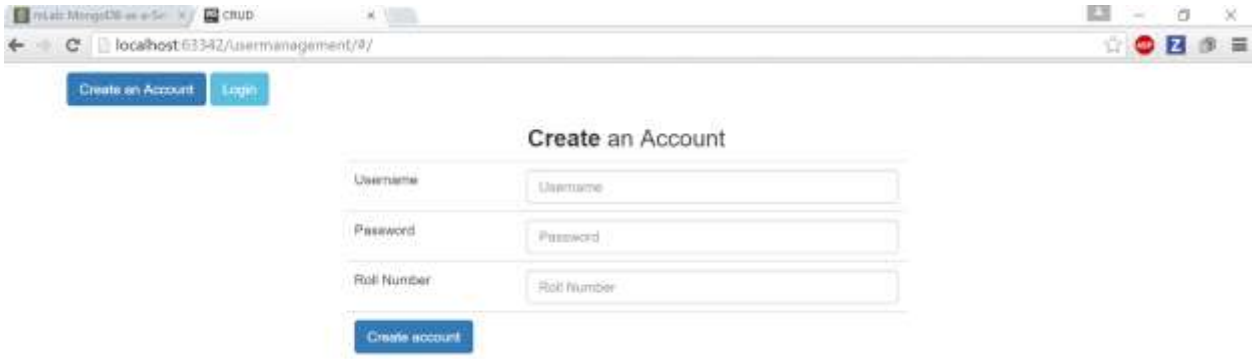
Task: To develop a CRUD application.

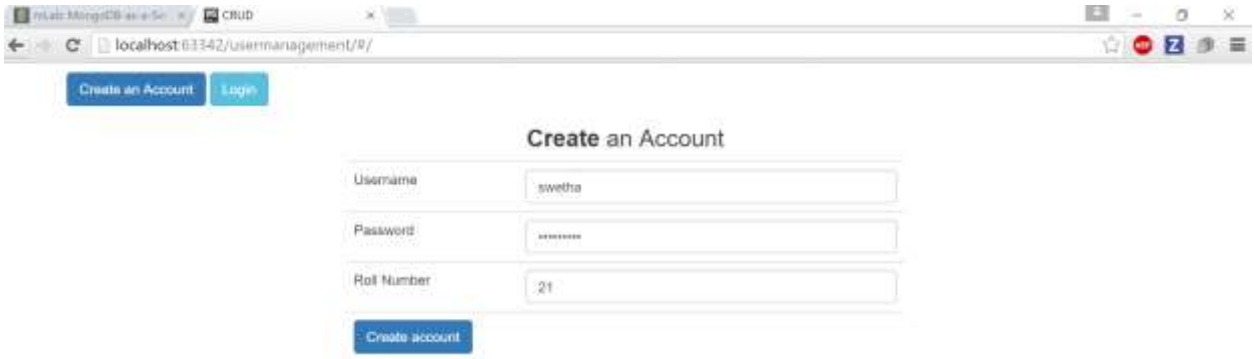
Steps Involved:

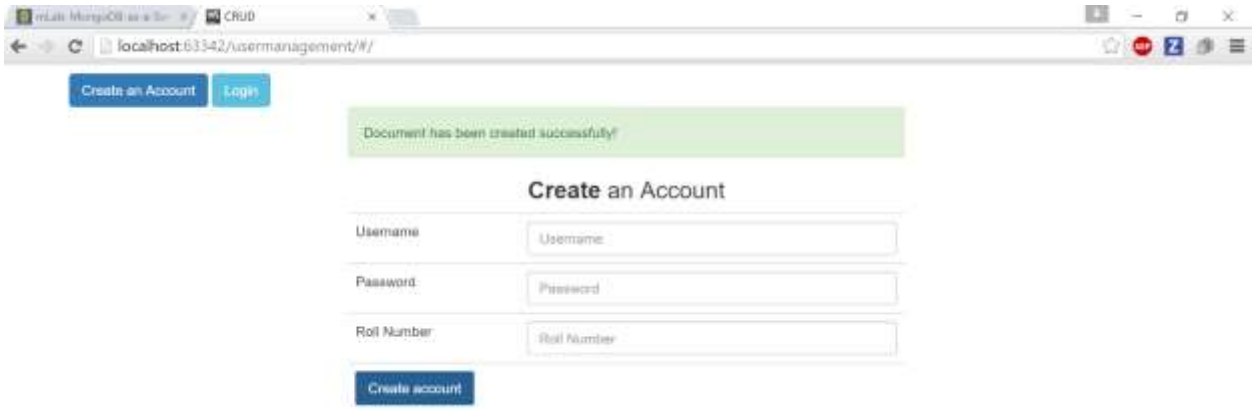
1. Register an account on mlab for hosting a free MongoDB database. Create user to access that database.
2. A CRUD service for Creating, Retrieving, Updating and Deleting documents in the collection are written in Java using Servlets.
3. An AngularJS web portal is used to interact with the Servlet and in turn Servlet interacts with the mlab.
4. The AngularJS application is a simple user management interface in which, upon entering the user is requested to Register. Whenever the user clicks on Register, a $http call is made to the Servlet using POST method a payload is sent in JSON format. The servlet processes the request and creates a new document in the collection.
5. The second step is to login, whenever user provides user credentials and clicks on Login, a $http call is made to the Read servlet using GET method a payload containing username and password are sent to fetch the records matching these values.
6. The third step is to update; the user can update the password. Upon clicking on update button, $http call is made to the update servlet using POST method a payload containing username and new password is sent and the username is used to find the document and the password is replaced with the new password that came in the payload.
7. The fourth step is to delete; the user can delete their account, upon clicking delete, the user is asked for confirmation of account deleting. A $http call is made to delete servlet, using DELETE method a payload containing username of the account is sent and the document with matching username is fetched and removed from the collection.

Screenshots:

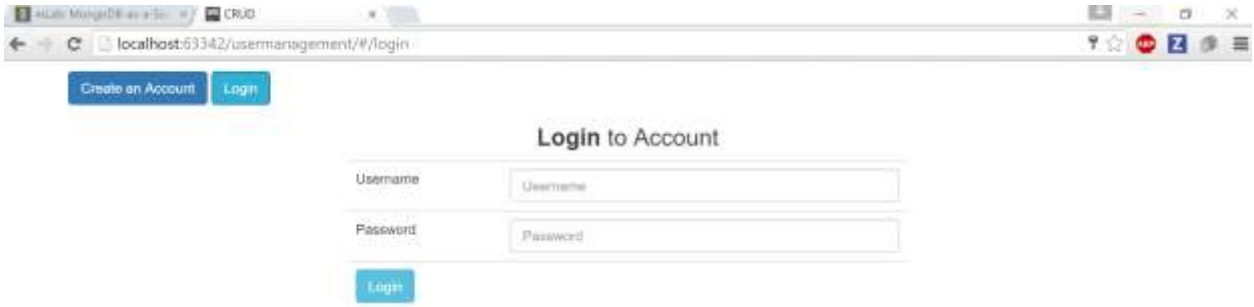
1. CREATE: To create account

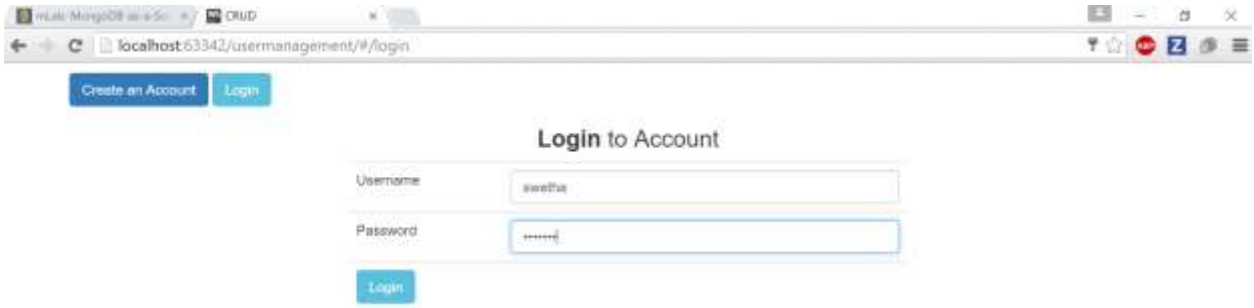




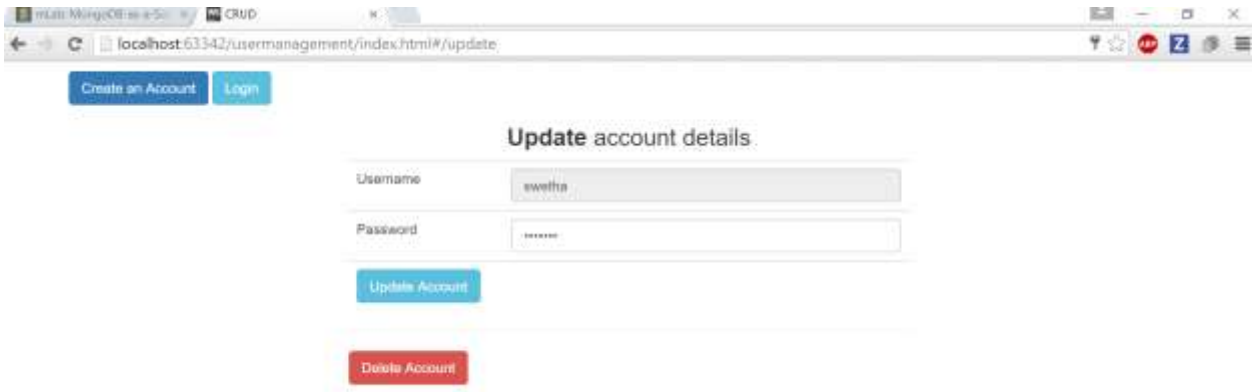


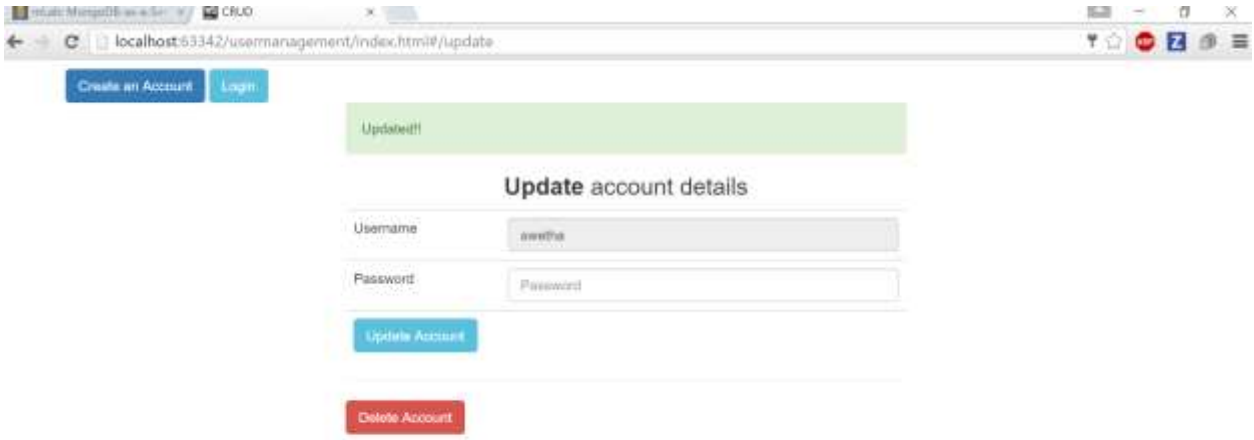
2. READ:



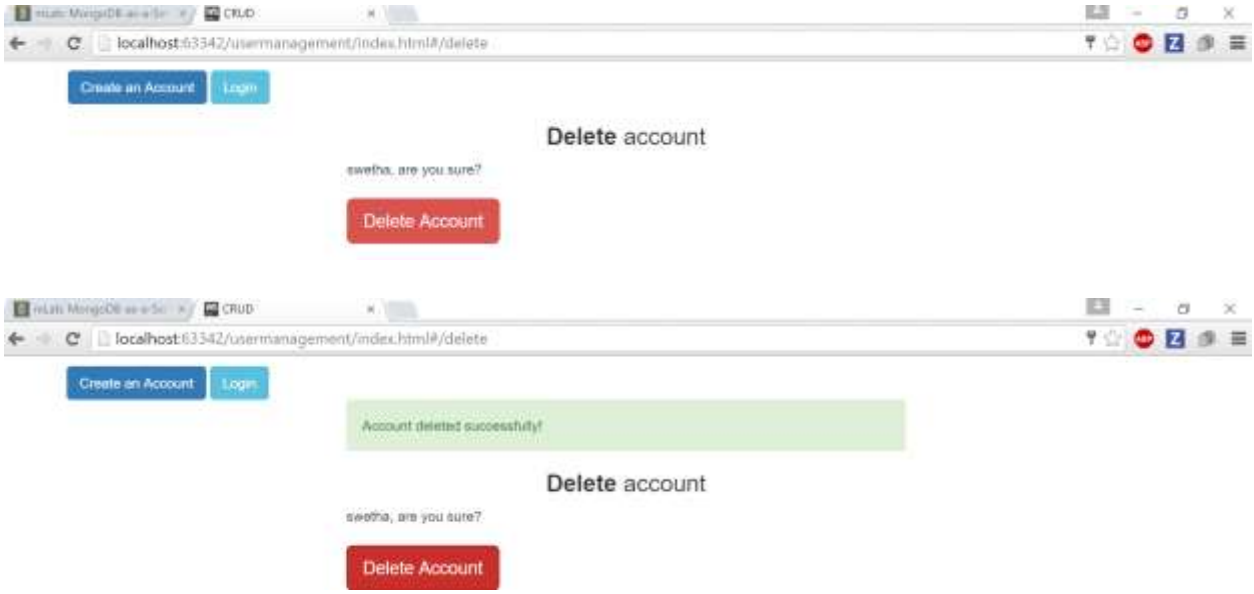


3. UPDATE

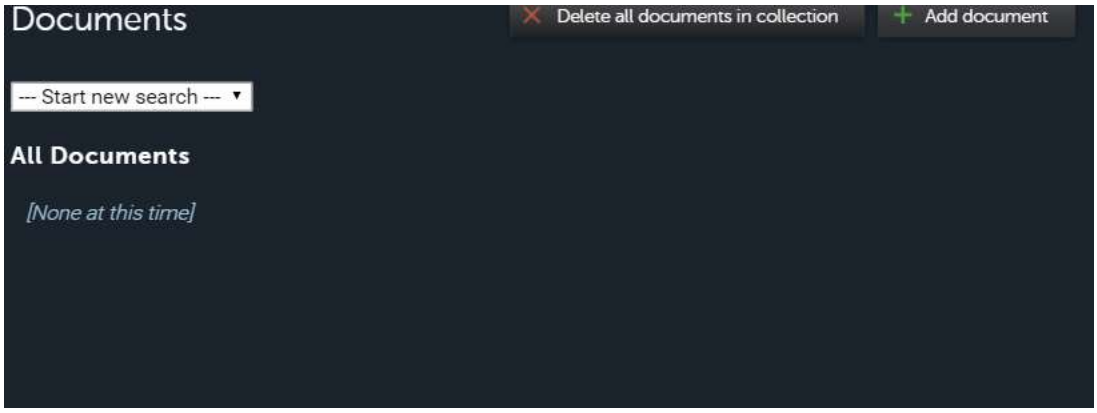



CRUD
localhost:63342/usermanagement/index.html#/update
Create an Account
Login
Updated!!
Update account details
Username
swetha
Password
Password
Update Account
Delete Account

4. DELETE


CRUD
localhost:63342/usermanagement/index.html#/delete
Create an Account
Login
Delete account
swetha, are you sure?
Delete Account
CRUD
localhost:63342/usermanagement/index.html#/delete
Create an Account
Login
Account deleted successfully!
Delete account
swetha, are you sure?
Delete Account

All Documents
Display mode: list table (edit table view)
records / page 10
[1 - 1 of 1]
{
"_id": {
"$oid": "56dfada65a371d1eb8cb5141"
},
"password": "swetha123",
"roll": "10",
"username": "swetha"
records / page 10
[1 - 1 of 1]


Documents
Delete all documents in collection
Add document
--- Start new search ---
All Documents
[None at this time]