

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

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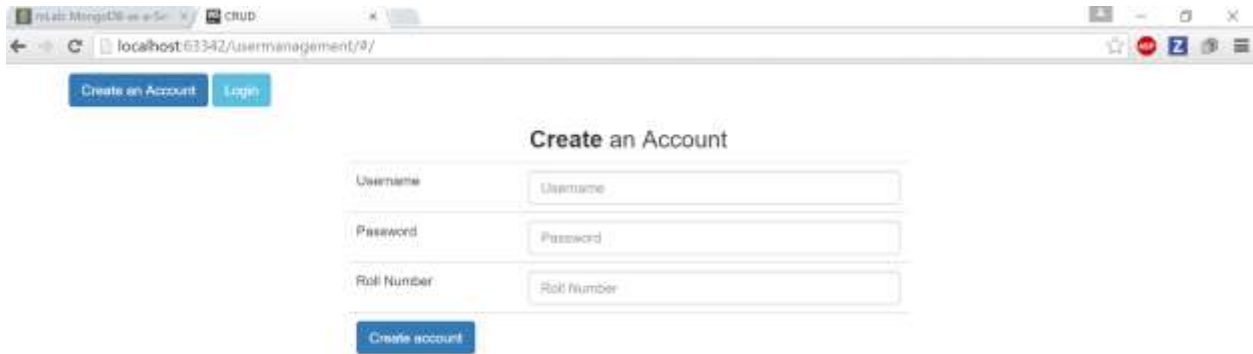
**Task:** To develop a CRUD application.

**Steps Involved:**

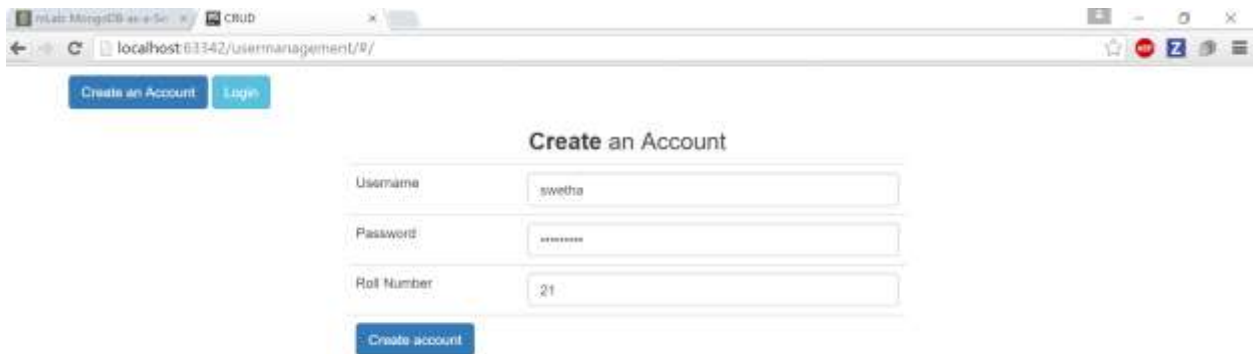
1. Register an account on mlab for hosting a free MongoDB database. Create user to access that database.
2. A CRUD service for Creating, Retrieving, Updating and Deleting documents in the collection are written in Java using Servlets.
3. An AngularJS web portal is used to interact with the Servlet and 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:

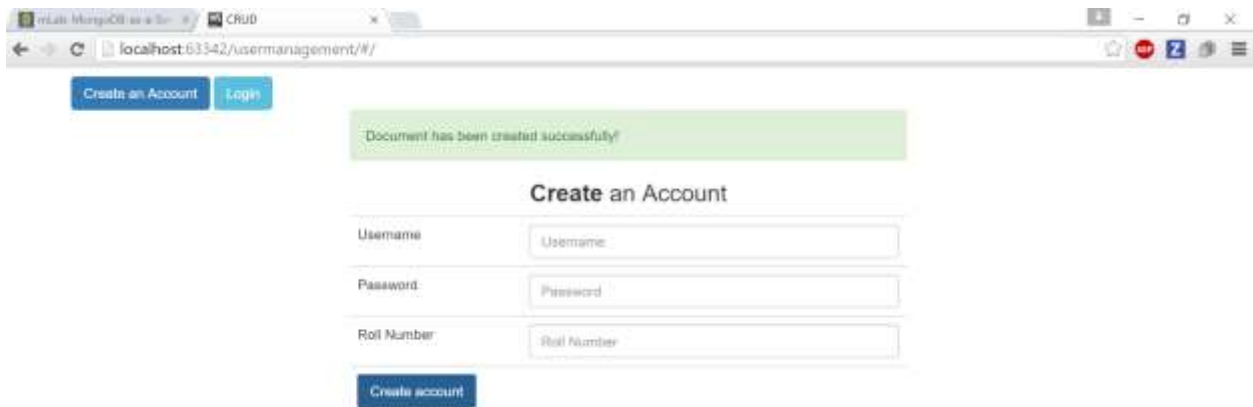
### 1. CREATE: To create account



A screenshot of a web browser window showing the 'Create an Account' page. The browser's address bar displays 'localhost:63342/usermanagement/#/'. The page has a title bar with 'mLab MongoDB' and 'CRUD'. At the top left, there are two buttons: 'Create an Account' and 'Login'. The main heading is 'Create an Account'. Below it, there are three input fields: 'Username', 'Password', and 'Roll Number'. Each field has a placeholder text matching its label. At the bottom of the form is a blue button labeled 'Create account'.

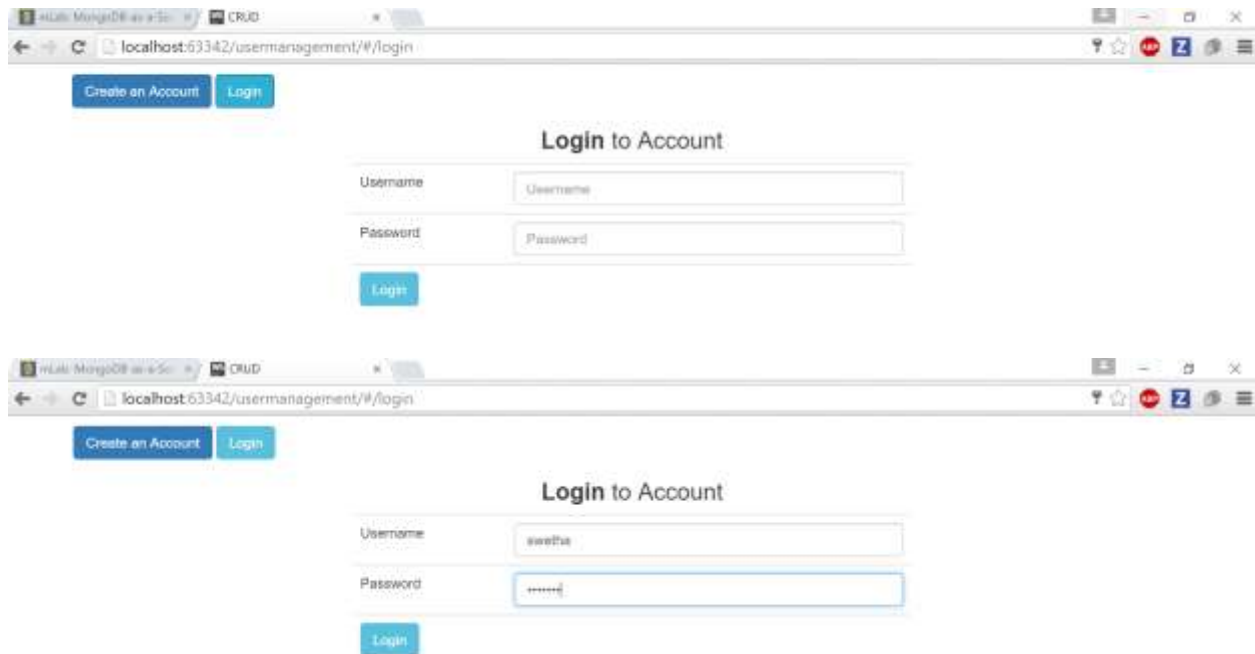


A screenshot of the same 'Create an Account' page, but with sample data entered into the form fields. The 'Username' field contains 'swetha', the 'Password' field contains 'swetha', and the 'Roll Number' field contains '21'. The 'Create account' button remains at the bottom.



A screenshot of the 'Create an Account' page after a successful submission. A green message box at the top of the form area says 'Document has been created successfully!'. The form fields are now empty, and the 'Create account' button is still visible at the bottom.

## 2. READ:



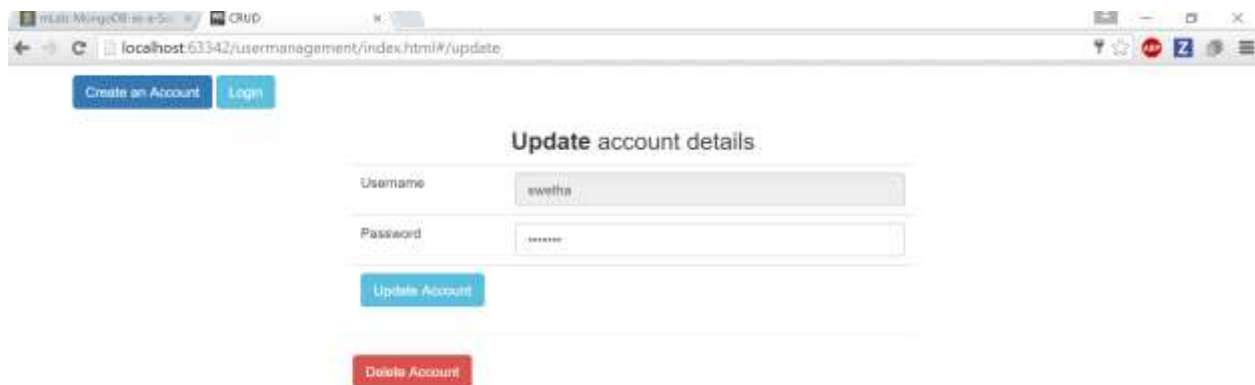
The screenshot shows a web browser window with the address bar displaying `localhost:63342/usermanagement/#/login`. The page has a header with two buttons: "Create an Account" and "Login". The main content area is titled "Login to Account" and contains a form with two input fields: "Username" and "Password". Below the fields is a "Login" button. The browser's developer tools are open, showing the "Elements" panel on the right.

Username

Password

Login

## 3. UPDATE



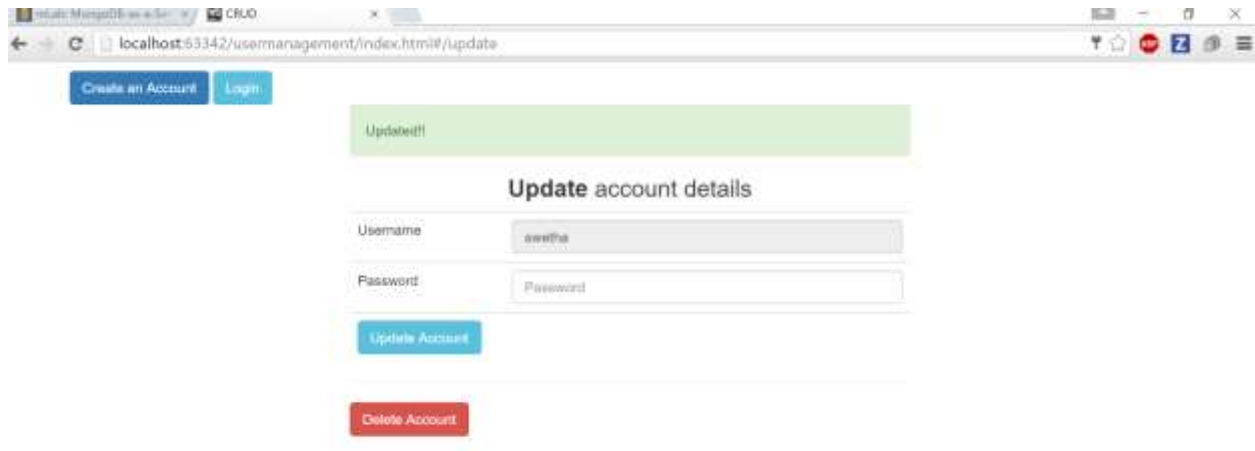
The screenshot shows a web browser window with the address bar displaying `localhost:63342/usermanagement/index.html#/update`. The page has a header with two buttons: "Create an Account" and "Login". The main content area is titled "Update account details" and contains a form with two input fields: "Username" and "Password". Below the fields is an "Update Account" button. At the bottom of the form is a "Delete Account" button. The browser's developer tools are open, showing the "Elements" panel on the right.

Username

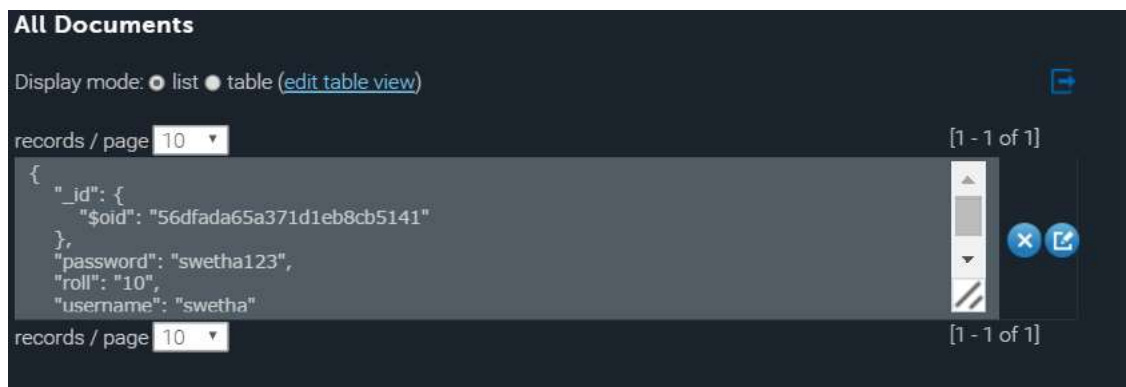
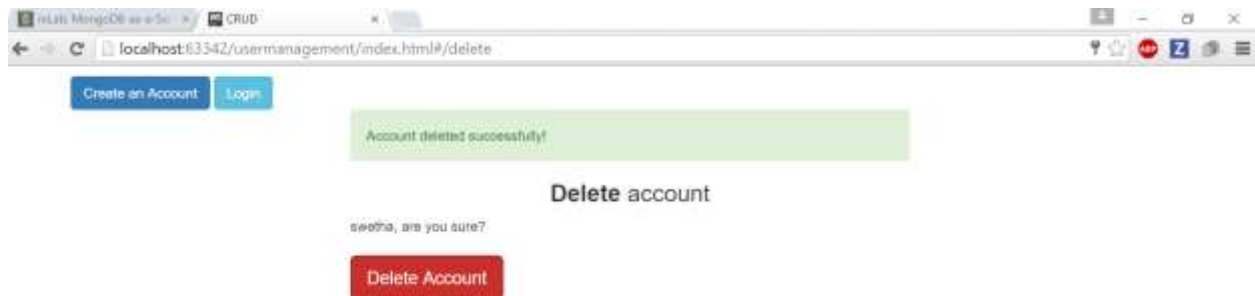
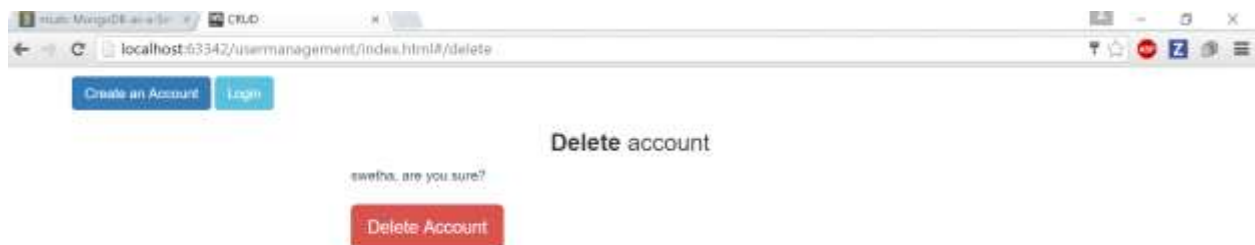
Password

Update Account

Delete Account



#### 4. DELETE



## Documents

 Delete all documents in collection

 Add document

--- Start new search --- ▾

### All Documents

*[None at this time]*