CPSC-476-Fall 2016-Url Shortener
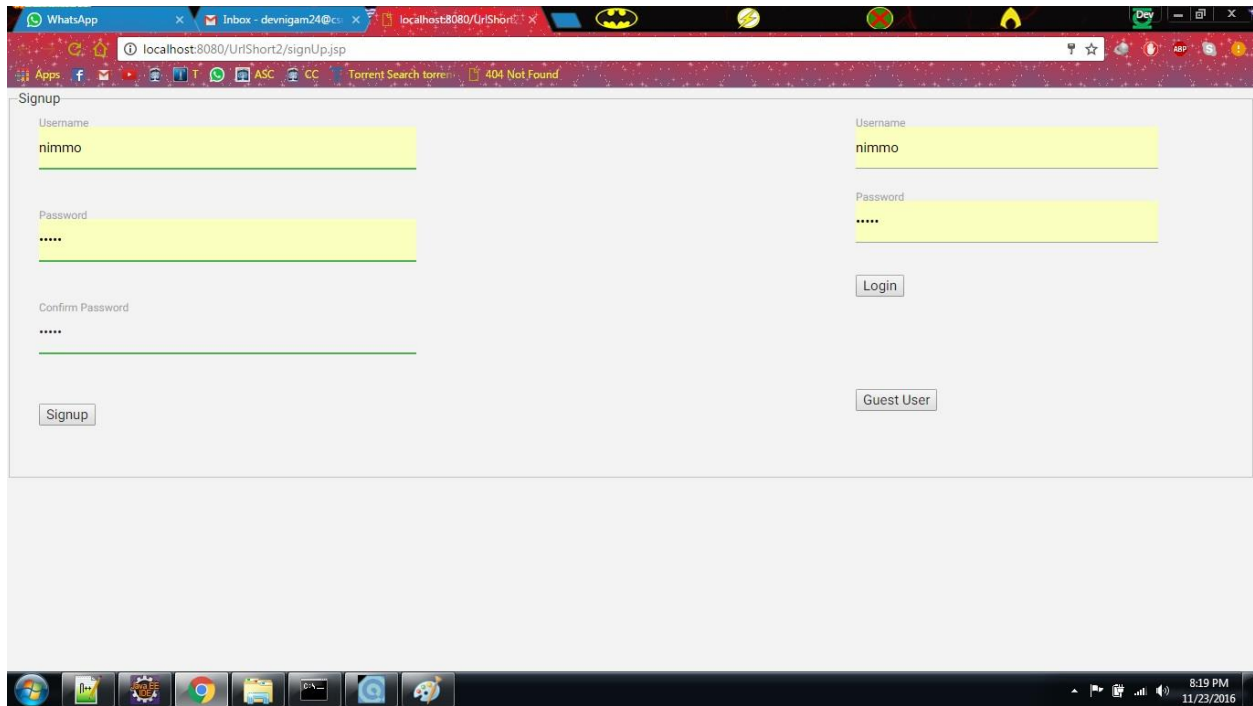

Figure 1: Our application's Sign up and Login page is depicted as below. It contains Sign up form on the
left side and login form on the right side. Moreover, it has a "Guest User Button" it will take user to a public front page where any user can input a shortened URL and view the original URL without following the link.

Sign Up Form Validations:
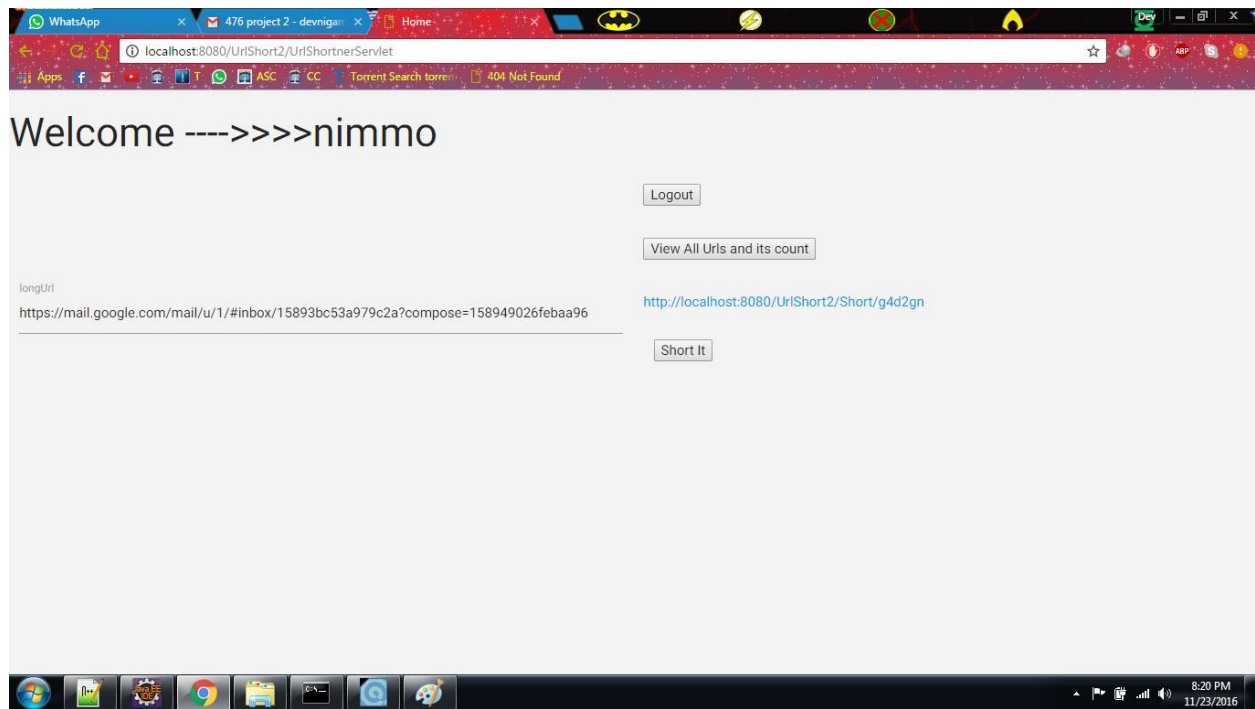Password and Confirm Password must match.

Figure 2: Dashboard or Main page. Here on the top we are showing the username and email id of user
logged in. With button and text boxes as follows:

Logout: will invalidate the session and takes out user from application to sign up page.
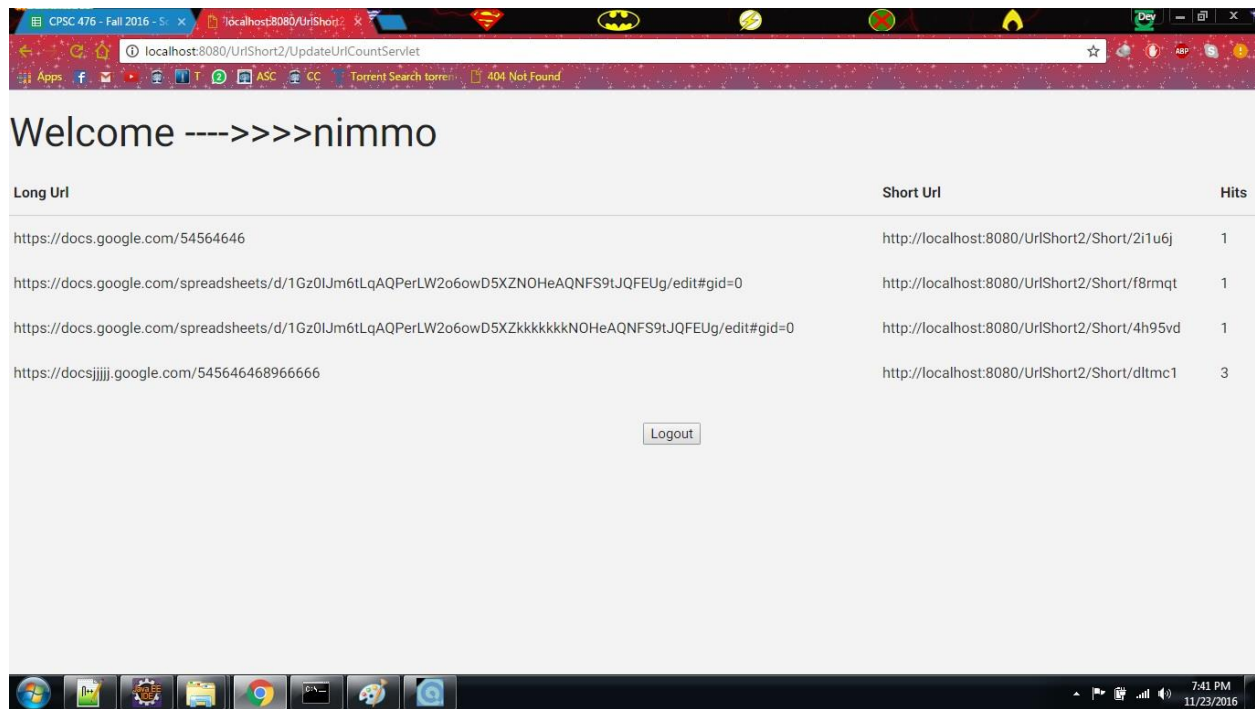
Figure 3. View all the URL's and hits

Figure 3: View all URLs and its count: It will redirect user to a private page where users can view a list of the URLs
they have shortened and the number of clicks each has received. (As shown in Figure 3).

Short It: An input box where users will enter their URLs to be short and will click this button to get them short on the right-hand side. The shortened URL is a hyperlink that will redirect user to the actual page
with long URL.

Figure 4: This figure shows the HSQL Database Manager and the tables created in them.

PUBLIC.ALLUSERTABLE contains Username, password of the registered users.

PUBLIC.URLHITS contains username along with its LongURL, ShortURL, and hits.

HSQL Database Manager with query fired for users from ALLUSERS table

HSQL Database Manager with query fired for URL form URLHITS table

Installation Instructions:

Step 1: Downloading Apache Maven 3.3.9: Download .zip file from apache maven from its

repository " https://maven.apache.org/download.cgi"

Step 2: Extract the zip contents.

Step 3: Downloading Apache Ant 3.3.9: Download .zip file from apache ant from its repository " https://ant.apache.org/bindownload.cgi"

Step 4: Extract the zip contents.

Step 5: Copy paste the attached "build.xml" in bin directory of apache ant.

Step 6: Open cmd in bin folder, and run command ant init and after that ant start.

Step 7: Go to bin Folder of apache maven and copy paste "Pom.xml" and "src folder" of the zip file of project attached.

Step 8: Open command prompt in the bin folder of apache maven and run command mvn clean package.

Step 9: After build successful, check the UrlShort2.war in target folder created.

Step 10: Copy UrlShort2.war created to the webapps directory of apache tomcat.

Step 11: Open cmd in bin directory of apache tomcat and run command startup.bat

Step 12: Run command ant manage in command prompt of apache ant

Step 13: Hit URL "http://localhost:8080/UrlShort2"