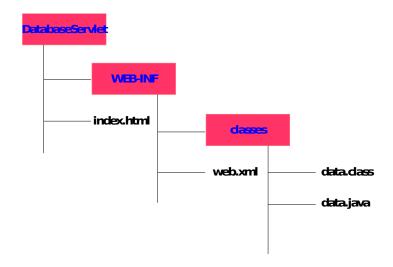
UCS 2611 Internet Programming Lab Exercise 3: DatabaseServlet Application using Tomcat Server

Date of Exercise: 14.02.2024

Write index.html to display form with a submit button. Set the method attribute of the form to "get" to generate GET request to the server. Write a java servlet to display the records of the table when the button is clicked. Write also the configuration file, namely, web.xml which maps the url mapped to the servlet class file.

Follow the directory structure for creating DatabaseServlet Web application and follow the guidelines below to configure and deploy web application.



To install mysql server in ubuntu 16.04 environment

To install mysql server

sudo apt-get update

sudo apt-get install mysgl-server

mysql_secure installation

To check the mysql service

systemctl status mysgl.service

To start and stop the service

service mysql start

service mysql stop

To get into the mysql prompt

mysql -u root -p

To clear the screen in mysql prompt

system clear

To exit from the mysql prompt

Fxit

In /usr/share/java, there won't be any mysql connector files available. In order to run the servlet code with the database, we need to have connector files in tomcat/lib folder

Execute the following statement to get the connector files

apt-get install Libmysql-java

You will have mysql.jar, mysql-connector-java.jar, mysql-connector-java-5.1.38.jar in /usr/share/java folder. Copy them and put it in tomcat/lib folder.

Start the server using \$CATALINA_HOME/bin/startup.sh
To run DatabaseServlet navigate to the url:
http://localhost:8080/DatabaseServlet
Stop the server using \$CATALINA HOME/bin/shutdown.sh

To install mysql server in windows environment

Use mysql-5.5.30-win32 to install mysql

Set the path of mysql in environment variables

While installing, provide user name and password

Copy the **mysql-connector-java-3.1.14-bin** jar file to "C:\Program Files\ Apache Software Foundation\Tomcat 7.0\lib"

To run mysql go to Start→All Program→ MySqL→MySql5.5 Command Line Client and double

click it

mysql> use test;

mysql> create table Employess (id int, age int, first varchar(20), last varchar(20));

mysql> insert into Employess (101, 20, "Zara", "Ali");

mysql> select * from Employees;

How to run the Web application?

- 1. Copy the DatabaseServlet application in webapps folder
- 2. Navigate to tomcat directory, go to bin
- 3. Execute startup.bat
- 4. Wait for the server to start
- 5. Open browser and navigate to the url : localhost:8080
- 6. A tomcat demo page will be displayed.
- 7. To run firstservlet navigate to the url : http://localhost:8080/DatabaseServlet