DROP'S DIVISION AND REPLICATION OF DATA IN CLOUD

Upload file:

Frontend code:

<%@include file=*"oback.jsp"*%>

<div class=*"container"*><br>

<div class=*"row"*>

<div class=*"col-md-4 col-md-offset-4"*>

<div class=*"login"*>

<div class=*"H3 text-center"*>UPLOAD FILE</DIV><br>

<form name=*"ds"* ENCTYPE=*"multipart/form-data"* action=*"upload1.jsp"* method=*"post"* onSubmit="">

<div class=*"form-group has-feedback"*>

<label class=*"label-control"*>Select File</label>

<input type=*"file"* name=*"myfile"* placeholder=*"Enter Username"* title=*"Enter Username"* class=*"form-control"*>

<span class=*"form-control-feedback"*></span>

</div><br>

<input type=*"submit"* value=*"UPLOAD"* class=*"btn btn-primary btn-block btn-responsive"*>

</form>

</div>

</div>

</div></div>

Backend code:

<%@page import=*"java.util.\*,java.io.\*"*%>

<%@page import=*"java.text.SimpleDateFormat"*%>

<%@page import=*"java.text.DateFormat"*%>

<%@page import=*"javax.crypto.spec.SecretKeySpec"*%>

<%@include file=*"oback.jsp"*%>

<%@page import=*"com.oreilly.servlet.\*,java.sql.\*,databaseconnection.\*,java.util.\*,java.io.\*,javax.servlet.\*, javax.servlet.http.\*"*%>

<%@page import=*" java.security.MessageDigest"*%>

<%@page import=*" java.security.\*"*%>

<%@page import=*"javax.crypto.\*,action.\*"*%>

<html>

<head>

</head>

<body>

<%

String ouname=(String)session.getAttribute("ouname");

**int** ownerId=(Integer)session.getAttribute("ownerId");

String myKey=**null**;

String edata=**null**;

Thread.sleep(100);

ServletContext context = getServletContext();

String dirName =context.getRealPath("\\uploads\\");

String paramname=**null**;

String myfile=**null**;

File file1 = **null**;String fdata="",url=**null**;

**try** {

MultipartRequest multi = **new** MultipartRequest(request, dirName, 10 \* 1024 \* 1024); // 10MB

Enumeration params = multi.getParameterNames();

**while** (params.hasMoreElements())

{

paramname = (String) params.nextElement();

**if**(paramname.equalsIgnoreCase("myfile"))

{

myfile=multi.getParameter(paramname);

}

}

**int** f = 0;String fPath=**null**;

Enumeration files = multi.getFileNames();

**while** (files.hasMoreElements())

{

paramname = (String) files.nextElement();

**if**(paramname.equals("d1"))

{

paramname = **null**;

}

**if**(paramname != **null**)

{

f = 1;

myfile = multi.getFilesystemName(paramname);

fPath = context.getRealPath("\\uploads\\"+myfile);

file1 = **new** File(fPath);

FileReader fr=**new** FileReader(fPath);

BufferedReader br=**new** BufferedReader(fr);

FileInputStream fs = **new** FileInputStream(file1);

String sCurrentLine=**null**;

**int** c = 0;

**while** ((sCurrentLine = br.readLine()) != **null**) {

fdata=fdata+sCurrentLine+"\n";

c++;

}

// FileWriter fw=new FileWriter("E://sai.txt");

// BufferedWriter bw=new BufferedWriter(fw);

// bw.write(fdata);

// bw.flush();

}

}

DateFormat df = **new** SimpleDateFormat("dd/MM/yy HH:mm:ss");

java.util.Date dateobj = **new** java.util.Date();

Calendar calobj = Calendar.getInstance();

SecretKeySpec secretKey=**null**;

secretKey=AES.setKey(df.format(calobj.getTime()).toString());

edata=AES.encrypt(fdata.trim(),secretKey.toString());

FileInputStream fs1 = **null**;

// drive hq

String fname=myfile;

Ftpcon ftpcon=**new** Ftpcon();

File file=**new** File(fPath);

FileWriter fr;

**try** {

System.out.println("uploading");

fr = **new** FileWriter(file);

fr.write(fdata);

fr.flush();

// No. of lines to be split and saved in each

**double** nol = 2.0;

Scanner scanner = **new** Scanner(file);

**int** count = 0;

**while** (scanner.hasNextLine()) {

scanner.nextLine();

count++;

}

// display no. of lines in the input file.

System.out.println("Lines in the file: " + count);

**double** temp = (count / nol);

**int** temp1 = (**int**) temp;

**int** nof = 0;

**if** (temp1 == temp) {

nof = temp1;

} **else** {

nof = temp1 + 1;

}

System.out.println("No. of files to be generated :" + nof);

// splitting of file into multiple files

FileInputStream fstream = **new** FileInputStream(file);

DataInputStream in = **new** DataInputStream(fstream);

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(in));

String strLine;

**for** (**int** j = 1; j <= nol; j++) {

// location of new file

String fnamenew = "D:/"+fname + j + ".txt";

FileWriter fstream1 = **new** FileWriter(fnamenew);

BufferedWriter out1 = **new** BufferedWriter(fstream1);

**for** (**int** i = 1; i <= nof; i++) {

strLine = br.readLine();

**if** (strLine != **null**) {

out1.write(strLine);

**if** (i != nol) {

out1.newLine();

}

}

}

out1.close();

}

in.close();

**for**(**int** k=1;k<=2;k++){

File filenew = **new** File("D:/"+fname + k + ".txt");

ftpcon.upload(filenew, fname + k + ".txt");

}

//ftpcon.upload(file, fname);

System.out.println("completed");

} **catch** (Exception e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

Connection con=DBCon.getConnection();

Statement st=con.createStatement();

Statement st2=con.createStatement();

Statement st3=con.createStatement();

PreparedStatement ps=con.prepareStatement("insert into files(fname,fdata,ouname,ownerId,key1) values(?,?,?,?,?)");

ps.setString(1,myfile);

ps.setString(2,edata);

ps.setString(3,ouname);

ps.setInt(4,ownerId);

ps.setString(5,secretKey.toString());

**int** x=ps.executeUpdate();

ResultSet rs2=st2.executeQuery("select LAST\_INSERT\_ID() from files");

**if**(rs2.next())

{

st3.executeUpdate("insert into notifications(fileId,fname,action,actionby,datee,utype) values('"+rs2.getInt(1)+"','"+myfile+"','UPLOADED','"+ouname+"',now(),'OWNER')");

}

**if**(x!=0)

{

url="omessage.jsp?msg=File Uploaded Successfully&color=green";

response.sendRedirect(url);

}

**else**

{

url="omessage.jsp?msg=Fails to Upload&color=red";

response.sendRedirect(url);

}

}

**catch** (Exception e)

{

out.println(e.getMessage());

}

%>

</body>

</html>

Download code:

<%@page import=*"javax.crypto.spec.SecretKeySpec"*%>

<%@page import=*"java.sql.\*,databaseconnection.\*,action.\*"*%>

<% %>

<% **int** fileId=Integer.parseInt(request.getParameter("fileId"));

Connection con=DBCon.getConnection();

Statement st=con.createStatement();

Statement st2=con.createStatement();

ResultSet rs=st.executeQuery("select \* from files where fileId='"+fileId+"'");

String url=**null**,url2=**null**,ddata=**null**;

SecretKeySpec secretKey=**null**;

**while**(rs.next())

{

st2.executeUpdate("insert into notifications(fileId,fname,action,actionby,datee,utype) values('"+fileId+"','"+rs.getString("fname")+"','DOWNLOADED','"+(String)session.getAttribute("ouname")+"',now(),'OWNER')");

**if**(rs.getString("key2")!=**null**)

{

ddata=AES.decrypt(rs.getString("fdata").trim(),rs.getString("key2"));

ddata=AES.decrypt(ddata.trim(),rs.getString("key1"));

}**else**{

ddata=AES.decrypt(rs.getString("fdata").trim(),rs.getString("key1"));

}

response.setContentType("text/html;charset=UTF-8");

response.setHeader("Content-Disposition", "attachment;filename=\"" + rs.getString("fname") + "\"");

out.write(ddata.trim());

}

%>

Owner files:

<%@include file=*"oback.jsp"*%>

<%@page import=*"java.util.Random"*%>

<%@page import=*"java.sql.\*,databaseconnection.\*,action.\*"*%>

<div class=*"container"*>

<%

**int** a;String url=**null**,url2=**null**;

Connection con=DBCon.getConnection();

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from files"); %>

<br><br>

<div class=*"h3 text-center"*>Uploaded Files</div>

<table class=*"table table-bordered table-responsive"*>

<tr><th>File Name</th><th>View</th><th>Delete</th></tr>

<%**while**(rs.next())

{ url="odownload.jsp?fileId="+rs.getInt("fileId");

url2="odelete.jsp?fileId="+rs.getInt("fileId")+"&fname="+rs.getString("fname");

%>

<tr><td><%=rs.getString("fname")%></td><td><a href=*"*<%=url%>*"*><button class=*"btn btn-primary btn-block"*>Download</button></a></td><td><a href=*"*<%=url2%>*"*><button class=*"btn btn-danger btn-block"*>Delete</button></a></td></tr>

<%}

%></table>

</div>

View owners:

<%@include file=*"pback.jsp"*%>

<%@page import=*"java.sql.\*,databaseconnection.\*,action.\*"*%>

<%

Connection con=DBCon.getConnection();

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from owner");

String url=**null**,url2=**null**;

%>

<div class=*"container"*>

<div class=*"text-center h3"*>Owner Details</div>

<table class=*"table table-responsive table-bordered"*>

<tr><th>Owner Name</th><th>Owner Username</th><th>Owner Email</th><th>Phone</th><th>Status</th><th>Action</th></tr>

<% **while**(rs.next())

{ url="overify.jsp?task=act&ownerId="+rs.getInt(1);

url2="overify.jsp?task=deact&ownerId="+rs.getInt(1);

%>

<tr><td><%=rs.getString("name")%></td><td><%=rs.getString("uname")%></td><td><%=rs.getString("email")%></td><td><%=rs.getString("phone")%></td>

<%**if**(rs.getString("status").equals("no")){%>

<td class=*"text-warning"*>Unauthorized</td>

<td><a href=*"*<%=url%>*"* ><button class=*"btn btn-primary btn-block"*>Authorize</button></a></td>

<%} **else** **if**(rs.getString("status").equals("block"))

{%>

<td class=*"text-danger"*>Blocked</td>

<td><a href=*"*<%=url%>*"*><button class=*"btn btn-warning btn-block"*>Authorize</button></a></td>

<%}**else**{ %>

<td class=*"text-primary"*>Authorized</td>

<td ><a href=*"*<%=url2%>*"*><button class=*"btn btn-danger btn-block"*>Unauthorize</button></a></td>

<% } %>

</tr>

<% }

%></table>

</div>

Register data:

<%@include file=*"hback.jsp"*%>

<div class=*"container"*>

<div class=*"row"*>

<div class=*"col-md-6 col-md-offset-3"*>

<div class=*"H3 text-center"*>REGISTRATION FORM</div>

<form action=*"reg1.jsp"* name=*"ds"* onsubmit="">

<div class=*"form-group has-feedback"*>

<label class=*"label-control"*>Enter Name</label>

<input type=*"text"* name=*"name"* placeholder=*"Enter Name"* title=*"Enter Name"* class=*"form-control"*>

<span class=*"form-control-feedback"*></span>

</div>

<div class=*"form-group has-feedback"*>

<label class=*"label-control"*>Enter Username</label>

<input type=*"text"* name=*"uname"* placeholder=*"Enter Username"* title=*"Enter Username"* class=*"form-control"*>

<span class=*"form-control-feedback"*></span>

</div>

<div class=*"form-group has-feedback"*>

<label class=*"label-control"*>Enter Password</label>

<input type=*"password"* name=*"pass"* placeholder=*"Enter Password"* title=*"Enter Password"* class=*"form-control"*>

<span class=*"form-control-feedback"*></span>

</div>

<div class=*"form-group has-feedback"*>

<label class=*"label-control"*>Enter Email</label>

<input type=*"email"* name=*"email"* placeholder=*"Enter Email"* title=*"Enter Email"* class=*"form-control"*>

<span class=*"form-control-feedback"*></span>

</div>

<div class=*"form-group has-feedback"*>

<label class=*"label-control"*>User Type</label>

<select name=*"utype"* class=*"form-control"*>

<option value=*""*>Select User Type</option>

<option value=*"owner"*>OWNER</option>

<option value=*"user"*>USER</option>

</select>

<span class=*"form-control-feedback"*></span>

</div>

<div class=*"form-group has-feedback"*>

<label class=*"label-control"*>Enter Phone</label>

<input type=*"number"* name=*"phone"* placeholder=*"Enter Phone Number"* title=*"Enter Phone Number"* class=*"form-control"*>

<span class=*"form-control-feedback"*></span>

</div>

<input type=*"submit"* value=*"REGISTER"* class=*"btn btn-primary btn-block btn-responsive"*>

</form>