package action;

import com.oreilly.servlet.MultipartRequest;

import com.sun.org.apache.xerces.internal.impl.dv.util.Base64; import java.io.BufferedReader;

import java.io.File; import java.io.FileReader; import java.io.FileWriter;

import java.io.IOException; import java.io.PrintWriter; import java.sql.Connection; import java.sql.ResultSet; import java.sql.Statement; import java.text.DateFormat;

import java.text.SimpleDateFormat; import java.util.Calendar;

import java.util.Date;

import javax.crypto.KeyGenerator; import javax.crypto.SecretKey; import javax.servlet.ServletException; import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; import javax.servlet.http.HttpSession;

import pack.Dbconnection; import pack.Ftpcon; import pack.MailUtil; import pack.encryption;

/\*\*

\*

\* @author IBN5

\*/

public class upload extends HttpServlet { File;

final String filepath="E:/";

/\*\*

* Processes requests for both HTTP
* <code>GET</code> and
* <code>POST</code> methods.
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException { response.setContentType("text/html;charset=UTF-8"); PrintWriter out = response.getWriter();

try {

MultipartRequest m=new MultipartRequest(request,filepath); File file=m.getFile("file");

String filename=file.getName().toLowerCase(); Connection con= Dbconnection.getConn(); Statement st3=con.createStatement();

ResultSet rt3=st3.executeQuery("select \* from files where filename='"+filename+"'");

if(rt3.next()){ response.sendRedirect("upload.jsp?failed='yes'");

}

else{

//out.println("file location:"+filepath+"\n file name:"+filename+"\n"); BufferedReader br=new BufferedReader(new FileReader(filepath+filename)); StringBuffer sb=new StringBuffer();

String temp=null;

while(( temp=br.readLine())!=null){ sb.append(temp);

}

// out.println("file content:"+sb.toString()

// secretkey generating

KeyGenerator keyGen = KeyGenerator.getInstance("AES"); keyGen.init(128);

SecretKey = keyGen.generateKey(); System.out.println("secret key:"+secretKey);

encryption e=new encryption();

String encryptedtext=e.encrypt(sb.toString(),secretKey);

//storing encrypted file

FileWriter fw=new FileWriter(file); fw.write(encryptedtext);

fw.close();

//converting secretkey to String

byte[] b=secretKey.getEncoded();//encoding secretkey

String skey=Base64.encode(b); System.out.println("converted secretkey to string:"+skey);

//getting properties

HttpSession user=request.getSession(true);

String owner=user.getAttribute("username").toString();

DateFormat = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss”)

//get current date time with Date() Date = new Date();

System.out.println(dateFormat.format(date)); String time=dateFormat.format(date);

//get current date time with Calendar() Calendar cal = Calendar.getInstance();

System.out.println(dateFormat.format(cal.getTime())); String len=file.length()+"bytes";

//uploading file

boolean status=new Ftpcon().upload(file); if(status){

//Connection con= Dbconnection.getConn(); Statement st=con.createStatement(); Statement st1=con.createStatement();

ResultSet rt1=st1.executeQuery("select \* from user\_reg where username='"+owner+"'");

//sending filekey to users mail if(rt1.next()){

String ma=rt1.getString("mail"); String[] mail=new String[]{ ma };

String msg="Filename:"+file.getName()+"\n Filekey:"+skey; new MailUtil().sendMail(mail, mail,"File Key", msg);

}

else{

out.println("error while sending mail");

}

int i=st.executeUpdate("insert into files(filename,content,owner\_name,upload\_time,size,file\_key)values('"+file.getName ()+"','"+encryptedtext+"','"+owner+"','"+time+"','"+len+"','"+skey+"')");

if(i!=0){

// out.println("success"); response.sendRedirect("upload.jsp?status='uploded'");

}

else{

out.println("error while uploading additional informations");

}

// out.println("file stored");

// out.println(file.length());

}

else{

out.println("error");}

}

catch(Exception e){ out.println(e);

}

finally { out.close();

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

* Handles the HTTP
* <code>GET</code> method.
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs

\*/ @Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

* Handles the HTTP
* <code>POST</code> method.
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs

\*/ @Override

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

* Returns a short description of the servlet.
* @return a String containing servlet description

\*/ @Override

public String getServletInfo() { return "Short description";

}// </editor-fold>

}