**SAMPLE CODE**

**DBconnection.java**

/\*

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\*/

package com.app.utility;

import java.sql.Connection;

import java.sql.DriverManager;

/\*\*

\*

\* @author ARUMALLA

\*/

public class DBConnectionn {

public static Connection con=null;

public static Connection getConnection(){

try {

Class.forName("com.mysql.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/healthcare","root","root");

if(con!=null){

return con;

}

else{

return con;

}}

catch(Exception e){

System.out.println(e);

}

return con;}

}

**Doctor\_reg.java:**

/\*

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\*/

package com.app.action;

import com.app.utility.DBConnectionn;

import java.io.IOException;

import java.io.InputStream;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import javax.servlet.ServletException;

import javax.servlet.annotation.MultipartConfig;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.Part;

/\*\*

\*

\* @author Arumalla

\*/

@MultipartConfig(maxFileSize = 161748002)

public class doctor\_reg extends HttpServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

//processRequest(request, response);

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

PrintWriter out = response.getWriter();

String name = request.getParameter("name");

String password = request.getParameter("password");

String email = request.getParameter("email");

String mobile = request.getParameter("mobile");

String address = request.getParameter("address");

String dob = request.getParameter("dob");

String gender = request.getParameter("gender");

String pincode = request.getParameter("pincode");

String location = request.getParameter("location");

//Part filepart=request.getPart("image");

String status = "waiting";

String accesskey = "waiting";

//InputStream is = filepart.getInputStream();

//String ImageName = filepart.getSubmittedFileName();

//String accesskey = "notGenerated";

//out.println("Print name"+name);

Connection con = null;

PreparedStatement ps = null;

try {

con = DBConnectionn.getConnection();

String sqlQuery = "insert into doctorregister(name,password,email,mobile,address,dob,gender,pincode,location,status,accesskey) values(?,?,?,?,?,?,?,?,?,?,?)";

ps = con.prepareStatement(sqlQuery);

ps.setString(1, name);

ps.setString(2, password);

ps.setString(3, email);

ps.setString(4, mobile);

ps.setString(5, address);

ps.setString(6, dob);

ps.setString(7, gender);

ps.setString(8, pincode);

ps.setString(9, location);

//ps.setBinaryStream(10,is,is.available());

ps.setString(10, status);

ps.setString(11, accesskey);

int no = ps.executeUpdate();

if(no>0){

response.sendRedirect("doctorreg.jsp?msg=success");

}else{

response.sendRedirect("doctorreg.jsp?msg=failed");

}

} catch (Exception e) {

e.printStackTrace();

response.sendRedirect("doctorreg.jsp?msg=exist");

}finally{

try{

ps.close();

con.close();

}catch (Exception e) {

}

}

}

}

**Patient\_reg.java:**

/\*

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\*/

package com.app.action;

import com.app.utility.DBConnectionn;

import java.io.IOException;

import java.io.InputStream;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import javax.servlet.ServletException;

import javax.servlet.annotation.MultipartConfig;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.Part;

/\*\*

\*

\* @author Arumalla

\*/

@MultipartConfig(maxFileSize = 161748002)

public class patient\_reg extends HttpServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

//processRequest(request, response);

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

PrintWriter out = response.getWriter();

String name = request.getParameter("name");

String password = request.getParameter("password");

String email = request.getParameter("email");

String mobile = request.getParameter("mobile");

String address = request.getParameter("address");

String dob = request.getParameter("dob");

String gender = request.getParameter("gender");

String pincode = request.getParameter("pincode");

String location = request.getParameter("location");

//Part filepart=request.getPart("image");

String status = "waiting";

String accesskey = "waiting";

//InputStream is = filepart.getInputStream();

//String ImageName = filepart.getSubmittedFileName();

//String accesskey = "notGenerated";

//out.println("Print name"+name);

Connection con = null;

PreparedStatement ps = null;

try {

con = DBConnectionn.getConnection();

String sqlQuery = "insert into patientregister(name,password,email,mobile,address,dob,gender,pincode,location,status,accesskey) values(?,?,?,?,?,?,?,?,?,?,?)";

ps = con.prepareStatement(sqlQuery);

ps.setString(1, name);

ps.setString(2, password);

ps.setString(3, email);

ps.setString(4, mobile);

ps.setString(5, address);

ps.setString(6, dob);

ps.setString(7, gender);

ps.setString(8, pincode);

ps.setString(9, location);

//ps.setBinaryStream(10,is,is.available());

ps.setString(10, status);

ps.setString(11, accesskey);

int no = ps.executeUpdate();

if(no>0){

response.sendRedirect("patientreg.jsp?msg=success");

}else{

response.sendRedirect("patientreg.jsp?msg=failed");

}

} catch (Exception e) {

e.printStackTrace();

response.sendRedirect("patientreg.jsp?msg=exist");

}finally{

try{

ps.close();

con.close();

}catch (Exception e) {

}

}

}

}

**Patientfileupload.java:**

/\*

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\*/

package com.app.action;

import com.app.utility.DBConnectionn;

import com.app.utility.EncryptionAlgoritham;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStream;

import java.io.InputStreamReader;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import javax.servlet.ServletException;

import javax.servlet.annotation.MultipartConfig;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import javax.servlet.http.Part;

/\*\*

\*

\* @author Arumalla

\*/

@MultipartConfig

public class PatientFileUpload extends HttpServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

String filename = request.getParameter("filename");

System.out.println("File Name "+filename);

Part filePart = request.getPart("file");

InputStream is = filePart.getInputStream();

//String fileName = filePart.getSubmittedFileName();

HttpSession hs = request.getSession();

String name = hs.getAttribute("name").toString();

System.out.println("File Name "+filename);

InputStreamReader isReader = new InputStreamReader(is);

BufferedReader reader = new BufferedReader(isReader);

StringBuffer sb = new StringBuffer();

String str;

String data = null;

while ((str = reader.readLine()) != null) {

sb.append(str);

}

data = sb.toString();

//String cipher = AESImple.encrypt(data);

Connection con = null;

PreparedStatement ps = null;

java.sql.Date cDate = new java.sql.Date(new java.util.Date().getTime());

try {

String cipher = EncryptionAlgoritham.encrypt(data);//AESImple.encrypt(data);

con = DBConnectionn.getConnection();

String sqlQuery = "insert into patientfiles(name,filename,cdate,cfile) values(?,?,?,?)";

ps = con.prepareStatement(sqlQuery);

ps.setString(1, name);

ps.setString(2, filename);

//ps.setString(3,file);

ps.setDate(3, cDate);

ps.setString(4, cipher);

int no = ps.executeUpdate();

if(no>0){

response.sendRedirect("fileupload.jsp?msg=success");

}else{

response.sendRedirect("fileupload.jsp?msg=failed");

}

is.close();

}catch(Exception ex){

System.out.println(" Error at "+ex.getMessage());

response.sendRedirect("fileupload.jsp?msg=failed");

}finally{

try {

ps.close();

con.close();

} catch (Exception e) {

}

}

}

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**DownloadAction.java**

/\*

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\* and open the template in the editor.

\*/

package com.app.action;

import com.app.utility.DBConnectionn;

import com.app.utility.EncryptionAlgoritham;

import java.io.IOException;

import java.io.OutputStream;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\*

\* @author aruma

\*/

public class DownloadAction extends HttpServlet {

/\*\*

\* 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");

int id = Integer.parseInt(request.getParameter("id"));

//GetKeysFromServer gkfs = new GetKeysFromServer();

//String privKey = gkfs.getPrivateKey(id);

//String pubkey = gkfs.getPublicKey(id);

//String key = ECCEncoder.binaryToText(privKey);

//String initVector = ECCEncoder.binaryToText(pubkey);

//System.out.println("Decryption Key "+key);

//System.out.println("InitVector Key "+initVector);

String fileName = null;

String fileData = null;

String plainData = null;

PreparedStatement ps = null;

ResultSet rs = null;

HttpSession hs = request.getSession();

try(Connection con = DBConnectionn.getConnection();) {

String sqlQuery = "select cfile,filename from patientfiles where id =?";

ps = con.prepareStatement(sqlQuery);

ps.setInt(1, id);

rs = ps.executeQuery();

if(rs.next()){

fileName = rs.getString("filename");

fileData = rs.getString("cfile");

plainData = EncryptionAlgoritham.decrypt(fileData);

String name = hs.getAttribute("name").toString();

//StoreDownloadHistory.storeDownloads(id,ownername,fileName,key,initVector);

}

} catch (Exception e) {

}

ServletContext context = getServletContext();

int BUFFER\_SIZE = 4096;

// sets MIME type for the file download

String mimeType = context.getMimeType(fileName);

if (mimeType == null) {

mimeType = "application/octet-stream";

}

// set content properties and header attributes for the response

response.setContentType(mimeType);

response.setContentLength(plainData.length());

String headerKey = "Content-Disposition";

String headerValue = String.format("attachment; filename=\"%s\"", fileName);

response.setHeader(headerKey, headerValue);

// writes the file to the client

OutputStream outStream = response.getOutputStream();

byte[] buffer = new byte[BUFFER\_SIZE];

int bytesRead = -1;

outStream.write(plainData.getBytes());

}

// <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>

}