**SAMPLE CODE**

**DBConnection.java**

package DataBaseCon;

import java.sql.Connection;

import java.sql.DriverManager;

public class DbConnection {

public static Connection getConnection()

{

Connection con = null;

try{

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

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

}

catch(Exception e)

{

e.printStackTrace();

}

return con;

}

}

**Ownersignup.jsp**

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Towards</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

<link href="layout/styles/layout.css" rel="stylesheet" type="text/css" media="all">

<link rel="stylesheet" type="text/css" href="vendor/bootstrap/css/bootstrap.min.css">

<link rel="stylesheet" type="text/css" href="fonts/font-awesome-4.7.0/css/font-awesome.min.css">

<link rel="stylesheet" type="text/css" href="fonts/iconic/css/material-design-iconic-font.min.css">

<link rel="stylesheet" type="text/css" href="vendor/animate/animate.css">

<link rel="stylesheet" type="text/css" href="vendor/css-hamburgers/hamburgers.min.css">

<link rel="stylesheet" type="text/css" href="vendor/animsition/css/animsition.min.css">

<link rel="stylesheet" type="text/css" href="vendor/select2/select2.min.css">

<link rel="stylesheet" type="text/css" href="vendor/daterangepicker/daterangepicker.css">

<link rel="stylesheet" type="text/css" href="css/util.css">

<link rel="stylesheet" type="text/css" href="css/main.css">

</head>

<body id="top">

<div class="wrapper row1">

<header id="header" class="hoc clear">

<div id="logo" style="align-content: center">

<center> <h3 style="font-family: Poppins-Regular;font-size: 28px; padding: 20px;"><a style="text-decoration: none; " href="index.html" >Towards Shared Ownership In The Cloud</a></h3></center>

</div>

</header>

</div>

<div class="wrapper row2" >

<nav id="mainav" class="hoc clear">

<ul class="clear" style="float: center">

<li><a style="text-decoration: none;" href="index.html">Home</a></li>

<li class="active"><a style="text-decoration: none;" href="Ownesginup.jsp">Data Owner</a></li>

<li><a style="text-decoration: none;" href="UserSignup.jsp">Data User</a></li>

<li><a style="text-decoration: none;" href="#">Cloud Service</a></li>

<li><a href="#">Cloud</a></li>

</ul>

</nav>

</div>

<div style="background-image: url(images/b2.jpg); background-repeat:no-repeat; background-position:center; background-size:cover;">

<div>

<center> <br> <h1 style="color: whitesmoke"> Owner Signup</h1> <br> <div class="wrap-login100" >

<form id="service" action="osignup.jsp" method="post">

<div class="wrap-input100 validate-input">

<input class="input100" type="text" name="name">

<span class="focus-input100" data-placeholder="name"></span>

</div>

<div class="wrap-input100 validate-input" >

<input class="input100" type="password" name="password">

<span class="focus-input100" data-placeholder="password"></span>

</div>

<div class="wrap-input100 validate-input" >

<input class="input100" type="email" name="email">

<span class="focus-input100" data-placeholder="email"></span>

</div>

<div class="wrap-input100 validate-input" >

<input class="input100" type="text" name="gender">

<span class="focus-input100" data-placeholder="gender"></span>

</div>

<div class="wrap-input100 validate-input" >

<input class="input100" type="text" name="mobile">

<span class="focus-input100" data-placeholder="mobile"></span>

</div>

<div class="wrap-input100 validate-input" >

<input class="input100" type="text" name="state">

<span class="focus-input100" data-placeholder="state"></span>

</div>

</form>

<div class="container-login100-form-btn">

<div class="wrap-login100-form-btn">

<div class="login100-form-bgbtn"></div>

<button type="submit" form="service" class="login100-form-btn">

SignUp

</button>

</div>

</div>

<br>

<a href="osignin.jsp"> Already register? sign in here</a>

</div>

</center>

<br><br>

</div>

</div>

<div class="wrapper row5">

<div id="copyright" class="hoc clear">

<p class="fl\_left">Copyright &copy; 2018 - All Rights Reserved - <a href="index.html">TSIOC</a></p>

<p class="fl\_right">Template by <a target="\_blank" href="index.html">TSOIC</a></p>

</div>

</div>

<a id="backtotop" href="#top"><i class="fa fa-chevron-up"></i></a>

<script src="js/main.js"></script>

</body>

</html>

**Oaccept.jsp**

<%@page import="java.sql.PreparedStatement"%>

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.Connection"%>

<%@page import="java.sql.ResultSet"%>

<%@page import="DataBaseCon.DbConnection"%>

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

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Towards</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

<link href="layout/styles/layout.css" rel="stylesheet" type="text/css" media="all">

<link rel="stylesheet" type="text/css" href="tabler/css/util.css">

<link rel="stylesheet" type="text/css" href="tabler/css/main.css">

<style>

body {font-family: Arial, Helvetica, sans-serif;}

/\* Full-width input fields \*/

input[type=text], input[type=password] {

width: 100%;

padding: 12px 20px;

margin: 8px 0;

display: inline-block;

border: 1px solid #ccc;

box-sizing: border-box;

}

/\* Set a style for all buttons \*/

button {

background-color: #003366;

color: white;

padding: 14px 20px;

margin: 8px 0;

border: none;

cursor: pointer;

width: 100%;

}

button:hover {

opacity: 0.8;

}

/\* Extra styles for the cancel button \*/

.cancelbtn {

width: auto;

padding: 10px 18px;

background-color: #f44336;

}

/\* Center the image and position the close button \*/

.imgcontainer {

text-align: center;

margin: 24px 0 12px 0;

position: relative;

}

img.avatar {

width: 40%;

border-radius: 50%;

}

.container {

padding: 16px;

}

span.psw {

float: right;

padding-top: 16px;

}

/\* The Modal (background) \*/

.modal {

display: none; /\* Hidden by default \*/

position: fixed; /\* Stay in place \*/

z-index: 1; /\* Sit on top \*/

left: 0;

top: 0;

width: 100%; /\* Full width \*/

height: 100%; /\* Full height \*/

overflow: auto; /\* Enable scroll if needed \*/

background-color: rgb(0,0,0); /\* Fallback color \*/

background-color: rgba(0,0,0,0.4); /\* Black w/ opacity \*/

padding-top: 60px;

}

/\* Modal Content/Box \*/

.modal-content {

background-color: #fefefe;

margin: 5% auto 15% auto; /\* 5% from the top, 15% from the bottom and centered \*/

border: 1px solid #888;

width: 80%; /\* Could be more or less, depending on screen size \*/

}

/\* The Close Button (x) \*/

.close {

position: absolute;

right: 25px;

top: 0;

color: #000;

font-size: 35px;

font-weight: bold;

}

.close:hover,

.close:focus {

color: red;

cursor: pointer;

}

/\* Add Zoom Animation \*/

.animate {

-webkit-animation: animatezoom 0.6s;

animation: animatezoom 0.6s

}

@-webkit-keyframes animatezoom {

from {-webkit-transform: scale(0)}

to {-webkit-transform: scale(1)}

}

@keyframes animatezoom {

from {transform: scale(0)}

to {transform: scale(1)}

}

/\* Change styles for span and cancel button on extra small screens \*/

@media screen and (max-width: 300px) {

span.psw {

display: block;

float: none;

}

.cancelbtn {

width: 100%;

}

}

</style>

</head>

<body id="top">

<div class="wrapper row1">

<header id="header" class="hoc clear">

<div id="logo" style="align-content: center">

<center> <h3 style="font-family: Poppins-Regular;font-size: 28px; padding: 20px;"><a style="text-decoration: none; " href="index.html" >Towards Shared Ownership In The Cloud</a></h3></center>

</div>

</header>

</div>

<div class="wrapper row2" >

<nav id="mainav" class="hoc clear">

<ul class="clear" style="float: center">

<li><a style="text-decoration: none;" href="index.html">Home</a></li>

<li class="active"><a style="text-decoration: none;" href="Ownesginup.jsp">Data Owner</a></li>

<li><a style="text-decoration: none;" href="UserSignup.jsp">Data User</a></li>

<li><a style="text-decoration: none;" href="#">Cloud Service</a></li>

<li><a href="#">Cloud</a></li>

</ul>

</nav>

</div>

<div class="limiter">

<div class="container-table100">

<div class="wrap-table100">

<div class="table100">

<table>

<thead>

<tr class="table100-head">

<th class="column1">Rid</th>

<th class="column2">Requested Owner name</th>

<th class="column2">File name</th>

<th class="column5">Download</th>

</tr>

</thead>

<%

String re=request.getParameter("rid");

int rid=Integer.parseInt(re);

String requestedStatus=null,raowner=null;

int requestedspace=0;

ResultSet rs=null;

Connection con=null;

try

{

con = DbConnection.getConnection();

String qry="select raowner,requestedspace,requestedStatus from reqspace where rid='"+rid+"'";

PreparedStatement ps=con.prepareStatement(qry);

rs =ps.executeQuery(qry);

while(rs.next())

{

raowner=rs.getString("raowner");

requestedspace=rs.getInt("requestedspace");

requestedStatus=rs.getString("requestedStatus");

%>

<tbody>

<tr>

<td class="column1"><%=rid%></td>

<td class="column2"><%=raowner%></td>

<td class="column2"><%=requestedspace%></td>

<td class="column5">Accepted</td>

</tr>

<%

}

}

catch(Exception e1)

{

out.println(e1.getMessage());

}

%>

</tbody>

</table>

</div>

</div>

</div>

</div>

</body>

</html>

**FileUpload.java**

package DataBaseCon;

import java.util.\*;

import FileReador.ContentExtractor;

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

import DataBaseCon.DbConnection;

import FileReador.ContentExtractor;

import java.io.IOException;

import java.io.InputStream;

import java.io.PrintWriter;

import java.security.SecureRandom;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.util.Random;

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;

@MultipartConfig(maxFileSize = 16177215)

public class fileupload extends HttpServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

int spce2=0;

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

String name1 = request.getParameter("name");

HttpSession session=request.getSession(true);

String name=(String)session.getAttribute("sharedkey");

int space=Integer.parseInt(session.getAttribute("space").toString());

InputStream inputStream = null;

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

String fname= "";

long size=filePart.getSize();

System.out.println("filesize="+size);

String filetype=filePart.getContentType();

// prints out some information for debugging

System.out.println(filePart.getName());

System.out.println(filePart.getContentType());

fname=filePart.getSubmittedFileName();

// obtains input stream of the upload file

inputStream=filePart.getInputStream();

//String str = ContentExtractor.getStringFromInputStream(filePart.getInputStream());

Connection con = null;

PreparedStatement ps = null;

ResultSet rs1=null;

String query="insert into filedetails(id,name,fname,file,size) values(?,?,?,?,?)";

try{

con = DbConnection.getConnection();

ps = con.prepareStatement(query);

ps.setString(1, id);

ps.setString(2, name1);

ps.setString(3,fname);

ps.setBinaryStream(4, inputStream);

ps.setLong(5, size);

int no = ps.executeUpdate();

if(no>0){

spce2=space-(int)size;

String sql="update cloudservice set storage='"+spce2+"' where name='"+name+"'";

ps=con.prepareStatement(sql);

int k=ps.executeUpdate();

if(k>0){

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

}else{

response.sendRedirect("oupload.jsp?msg=updatefailed");

}}else{response.sendRedirect("oupload.jsp?msg=success");}

}catch(Exception e){

e.printStackTrace();

}}}

**ownerspace.java**

package ownerspace;

import DataBaseCon.DbConnection;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

/\*\*

\*

\* @author Ramu Maloth

\*/

public class ownerspace{

private Connection con = null;

private PreparedStatement ps = null;

private ResultSet rs = null;

public int aownerSpace(String uname){

int availmemory=0;

try {

con = DbConnection.getConnection();

String query = "select storage from cloudservice where name1 = ?";

ps = con.prepareStatement(query);

ps.setString(1, uname);

rs = ps.executeQuery();

if (rs.next()) {

availmemory = rs.getInt(1);

}

} catch (Exception e) {

System.out.println("Error at getting user memory " + e.getMessage());

} finally {

try {

rs.close();

ps.close();

con.close();

} catch (Exception e) {

}

}

return availmemory;

}

public int rownerSpace(String uname){

int availmemoryy=0;

try {

con = DbConnection.getConnection();

String query = "select storage from cloudservice where name1 = ?";

ps = con.prepareStatement(query);

ps.setString(1, uname);

rs = ps.executeQuery();

if (rs.next()) {

availmemoryy = rs.getInt(1);

}

} catch (Exception e) {

System.out.println("Error at getting user memory " + e.getMessage());

} finally {

try {

rs.close();

ps.close();

con.close();

} catch (Exception e) {

}

}

return availmemoryy;

}

public boolean updateaownerSpace(String uname, long mem1) {

boolean flag = false;

try {

String query = "update cloudservice set storage = ? where name1 = ?";

con = DbConnection.getConnection();

ps = con.prepareStatement(query);

ps.setLong(1, mem1);

ps.setString(2, uname);

int no = ps.executeUpdate();

if (no > 0) {

flag = true;

}

} catch (Exception e) {

System.out.println("Error frm user memory update " + e.getMessage());

} finally {

try {

ps.close();

con.close();

} catch (Exception e) {

}

}

return flag;

}

public boolean updaterownerSpace(String uname1, long mem2) {

boolean flag = false;

try {

String query = "update cloudservice set storage = ? where name1 = ?";

con = DbConnection.getConnection();

ps = con.prepareStatement(query);

ps.setLong(1, mem2);

ps.setString(2, uname1);

int no = ps.executeUpdate();

if (no > 0) {

flag = true;

}

} catch (Exception e) {

System.out.println("Error frm user memory update " + e.getMessage());

} finally {

try {

ps.close();

con.close();

} catch (Exception e) {

}

}

return flag;

}

public boolean updaeStaus(String uname2, int rid) {

boolean flag = false;

try {

String query = "update reqspace set requestedStatus = ? where rid = ?";

con = DbConnection.getConnection();

ps = con.prepareStatement(query);

ps.setString(1, uname2);

ps.setInt(2, rid);

int no = ps.executeUpdate();

if (no > 0) {

flag = true;

}

} catch (Exception e) {

System.out.println("Error frm user memory update " + e.getMessage());

} finally {

try {

ps.close();

con.close();

} catch (Exception e) {

}

}

return flag;

}

}

**Writef.jsp**

<%@page import="java.sql.PreparedStatement"%>

<%@page import="DataBaseCon.DbConnection"%>

<%@page import="java.sql.Connection"%>

<%@page import="java.sql.ResultSet"%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Towards</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

<link href="layout/styles/layout.css" rel="stylesheet" type="text/css" media="all">

<body id="top">

<div class="wrapper row1">

<header id="header" class="hoc clear">

<div id="logo" style="align-content: center">

<center> <h3 style="font-family: Poppins-Regular;font-size: 28px; padding: 20px;"><a style="text-decoration: none; " href="index.html" >Towards Shared Ownership In The Cloud</a></h3></center>

</div>

</header>

</div>

<div class="wrapper row2">

<nav id="mainav" class="hoc clear">

<ul class="clear" style="float: center">

<li><a style="text-decoration: none;" href="ownerHome.jsp">Home</a></li>

<li><a class="drop" style="text-decoration: none;" href="#">Owner Request</a>

<ul>

<li><a style="text-decoration: none;" href="oreq.jsp">owner space request</a></li>

<li><a style="text-decoration: none;" href="ofreq.jsp">owner file request</a>

<ul>

<li><a style="text-decoration: none;" href="ofreq.jsp">Request for file</a></li>

<li><a style="text-decoration: none;" href="ofareq.jsp">Request Accept</a></li>

</ul>

</li>

</ul>

</li>

<li><a style="text-decoration: none;" href="ureq.jsp">User File Request</a></li>

<li><a style="text-decoration: none;" href="oupload.jsp">File Upload</a></li>

<li class="active"><a style="text-decoration: none;" href="fileDownload.jsp">File Download</a></li>

<li><a style="text-decoration: none;" href="osignin.jsp">Logout</a></li>

</ul>

</nav>

</div>

<form id="service" action="writef1.jsp" method="post">

<div style="background-image: url(images/a1.jpg); background-repeat:no-repeat; background-position:center; background-size:cover;">

<center> <br> <h1 style="color: whitesmoke">Update Here</h1> <br> <div class="wrap-login100" >

<%

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

String filedata=null;

String sql1="select \* from filedetails where fid='"+fid+"'";

Connection con=null;

ResultSet rs=null;

try

{

con = DbConnection.getConnection();

PreparedStatement ps=con.prepareStatement(sql1);

rs =ps.executeQuery();

while(rs.next())

{

filedata=rs.getString("file");

%>

<%

}

%>

<input type="text" name="fid" value="<%=fid%>">

<br><br>

<textarea rows="50" cols="50" name="writef"><%=filedata%></textarea>

<%

}catch(Exception e1)

{

out.println(e1.getMessage());

}

%>

</div>

<div class="container-login100-form-btn">

<div class="wrap-login100-form-btn">

<div class="login100-form-bgbtn"></div>

<button type="submit" form="service" class="login100-form-btn">

Update

</button>

</div>

</div>

</center>

<br><br><br><br><br><br><br><br>

<div class="wrapper row5">

<div id="copyright" class="hoc clear">

<p class="fl\_left">Copyright &copy; 2018 - All Rights Reserved - <a href="index.html">TSIOC</a></p>

<p class="fl\_right">Template by <a target="\_blank" href="index.html">TSOIC</a></p>

</div>

</div>

</div>

</form>

</body></html>

**ContentExtractor.java**

package FileReador;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStream;

import java.io.InputStreamReader;

public class ContentExtractor {

public static String getStringFromInputStream(InputStream is) {

BufferedReader br = null;

StringBuilder sb = new StringBuilder();

String line;

try {

br = new BufferedReader(new InputStreamReader(is));

while ((line = br.readLine()) != null) {

sb.append(line + "\n");

}

} catch (IOException e) {

e.printStackTrace();

} finally {

if (br != null) {

try {

br.close();

} catch (IOException e) {

e.printStackTrace();

}

}

}

return sb.toString();

}

}

**Index.jsp**

<!DOCTYPE html>

<html>

<head>

<title>Towards</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

<link href="layout/styles/layout.css" rel="stylesheet" type="text/css" media="all">

<link rel="stylesheet" type="text/css" href="css/main.css">

</head>

<body id="top">

<div class="wrapper row1">

<header id="header" class="hoc clear">

<style>

/\* Style The Dropdown Button \*/

.dropbtn {

background-color: #4CAF50;

color: white;

padding: 16px;

font-size: 16px;

border: none;

cursor: pointer;

}

/\* The container <div> - needed to position the dropdown content \*/

.dropdown {

position: relative;

display: inline-block;

}

/\* Dropdown Content (Hidden by Default) \*/

.dropdown-content {

display: none;

position: absolute;

background-color: #f9f9f9;

min-width: 160px;

box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);

z-index: 1;

}

/\* Links inside the dropdown \*/

.dropdown-content a {

color: black;

padding: 12px 16px;

text-decoration: none;

display: block;

}

/\* Change color of dropdown links on hover \*/

.dropdown-content a:hover {background-color: #f1f1f1}

/\* Show the dropdown menu on hover \*/

.dropdown:hover .dropdown-content {

display: block;

}

/\* Change the background color of the dropdown button when the dropdown content is shown \*/

.dropdown:hover .dropbtn {

background-color: #3e8e41;

}

</style>

<div id="logo" style="align-content: center">

<center> <h3 style="font-family: Poppins-Regular;font-size: 28px; padding: 20px;"><a href="index.html">Towards Shared Ownership In The Cloud</a></h3></center>

</div>

</header>

</div>

<div class="wrapper row2" >

<nav id="mainav" class="hoc clear">

<ul class="clear" style="float: center">

<li class="active"><a href="index.html">Home</a></li>

<li class="">

<a href="osignin.jsp">Data Owner</a>

</li>

<li><a href="usignin.jsp">Data User</a>

</li>

<li><a href="csverify.jsp">Cloud Service</a></li>

<li><a href="#">Cloud</a></li>

</ul>

</nav>

</div>

<div class="bgded overlay" style="background-image:url(images/back.jpg);">

<div id="pageintro" class="hoc clear">

<div class="flexslider basicslider">

<ul class="slides">

<li>

<center> <h3>Abstract</h3></center>

<p style="font-size: 14px; text-align: center;line-height:22px ">Cloud storage platforms promise a convenient way for

users to share files and engage in collaborations, yet they require all

files to have a single owner who unilaterally makes access control

decisions. Existing clouds are, thus, agnostic to the notion of shared

ownership. This can be a significant limitation inmany collaborations

because, for example, one owner can delete files and revoke access

without consulting the other collaborators.

In this paper, we first formally define a notion of shared ownership

within a file access control model. We then propose two possible

instantiations of our proposed shared ownership model. Our first

solution, called Commune, relies on secure file dispersal and collusionresistant

secret sharing to ensure that all access grants in the cloud

require the support of an agreed threshold of owners. As such,

Commune can be used in existing clouds without modifications to

the platforms. Our second solution, dubbed Comrade, leverages

the blockchain technology in order to reach consensus on access

control decision. Unlike Commune, Comrade requires that the cloud

is able to translate access control decisions that reach consensus

in the blockchain into storage access control rules, thus requiring

minor modifications to existing clouds. We analyze the security of

our proposals and compare/evaluate their performance through

implementations using Amazon S3.</p>

</li>

</ul>

</div>

</div>

</div>

<div class="wrapper row5">

<div id="copyright" class="hoc clear">

<p class="fl\_left">Copyright &copy; 2018 - All Rights Reserved - <a href="index.html">TSIOC</a></p>

<p class="fl\_right">Template by <a target="\_blank" href="index.html">TSOIC</a></p>

</div>

</div>

</body>

<!-- JAVASCRIPTS -->

<script src="layout/scripts/jquery.min.js"></script>

<script src="layout/scripts/jquery.backtotop.js"></script>

<script src="layout/scripts/jquery.mobilemenu.js"></script>

<script src="layout/scripts/jquery.flexslider-min.js"></script>

</html>

**FileDownload.jsp**

<%@page import="java.sql.PreparedStatement"%>

<%@page import="DataBaseCon.DbConnection"%>

<%@page import="java.sql.Connection"%>

<%@page import="java.sql.ResultSet"%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Towards</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

<link href="layout/styles/layout.css" rel="stylesheet" type="text/css" media="all">

</head>

<body id="top">

<div class="wrapper row1">

<header id="header" class="hoc clear">

<div id="logo" style="align-content: center">

<center> <h3 style="font-family: Poppins-Regular;font-size: 28px; padding: 20px;"><a style="text-decoration: none; " href="index.html" >Towards Shared Ownership In The Cloud</a></h3></center>

</div>

</header>

</div>

<div class="wrapper row2">

<nav id="mainav" class="hoc clear">

<ul class="clear" style="float: center">

<li><a style="text-decoration: none;" href="ownerHome.jsp">Home</a></li>

<li><a class="drop" style="text-decoration: none;" href="#">Owner Request</a>

<ul>

<li><a style="text-decoration: none;" href="oreq.jsp">owner space request</a></li>

<li><a style="text-decoration: none;" href="ofreq.jsp">owner file request</a>

<ul>

<li><a style="text-decoration: none;" href="ofreq.jsp">Request for file</a></li>

<li><a style="text-decoration: none;" href="ofareq.jsp">Request Accept</a></li>

</ul>

</li>

</ul>

</li>

<li><a style="text-decoration: none;" href="ureq.jsp">User File Request</a></li>

<li><a style="text-decoration: none;" href="oupload.jsp">File Upload</a></li>

<li class="active"><a style="text-decoration: none;" href="fileDownload.jsp">File Download</a></li>

<li><a style="text-decoration: none;" href="osignin.jsp">Logout</a></li>

</ul>

</nav>

</div>

<div style="background-image: url(images/a1.jpg); background-repeat:no-repeat; background-position:center; background-size:cover;">

<br><br><br><br><br>

<div class="limiter">

<div class="container-table100">

<div class="wrap-table100">

<div class="table100">

<table>

<thead>

<tr class="table100-head">

<th class="column1">fid</th>

<th class="column1">id</th>

<th class="column1">Owner name</th>

<th class="column2">file name</th>

<th class="column1">Read</th>

<th class="column1">Write</th>

<th class="column1">Delete</th>

<th class="column1">Download-</th>

</tr>

</thead>

<%

String oname=(String)session.getAttribute("name");

String skey1=null;

int skey=0;

String sql1="select sid,skey,id,fid,name,fname,readperm,writeperm,deleteperm from oreq where reqowner='"+oname+"' and skey !='"+skey1+"'";

Connection con=null;

ResultSet rs=null;

try

{

con = DbConnection.getConnection();

int id=0,fid=0,sid=0;

String fname=null,name=null,readperm=null,writeperm=null,deleteperm=null;

PreparedStatement ps=con.prepareStatement(sql1);

rs =ps.executeQuery();

while(rs.next())

{

sid=rs.getInt("sid");

fid=rs.getInt("fid");

id=rs.getInt("id");

name=rs.getString("name");

fname=rs.getString("fname");

readperm=rs.getString("readperm");

writeperm=rs.getString("writeperm");

deleteperm=rs.getString("deleteperm");

skey=rs.getInt("skey");

%>

<tbody>

<tr>

<td class="column1"><%=fid%></td>

<td class="column1"><%=id%></td>

<td class="column1"><%=name%></td>

<td class="column1"><%=fname%></td>

<%

if(readperm.equals("yes")){%>

<td class="column1"><a style="text-decoration: none;" href="readf.jsp?fid=<%=fid%>">Read</a></td>

<%

}

else{%>

<td class="column1">no access</td>

<%

}

%>

<%

if(writeperm.equals("yes")){ %>

<td class="column1"><a style="text-decoration: none;" href="writef.jsp?fid=<%=fid%>">Write</a></td>

<%

}

else{

%>

<td class="column1">no access</td>

<%

}

%>

<%

if(deleteperm.equals("yes")){%>

<td class="column1"><a style="text-decoration: none;" href="Deletef.jsp?fid=<%=fid%>&&sid=<%=sid%>">Delete</a></td>

<%

}

else{%>

<td class="column1">no access</td>

<%

}

%>

<%

if(skey != null){%>

<td class="column1"><a style="text-decoration: none;" href="Deletef.jsp?fid=<%=fid%>&&sid=<%=sid%>">Delete</a></td>

<%

}

else{%>

<td class="column1">no access</td>

<%

}

%>

</tr>

<%

}

}catch(Exception e1)

{

out.println(e1.getMessage());

}

%>

</tbody>

</table>

</div>

</div>

</div>

</div>

<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>

<div class="wrapper row5">

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</div>

</div>

</body>

</html>

**GenerateSharedkey.jsp**

<%@page import="DataBaseCon.DbConnection"%>

<%@page import="java.sql.PreparedStatement"%>

<%@page import="java.sql.Connection"%>

<%@page import="java.security.SecureRandom"%>

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

<%

String sharedkey = null;

Random RANDOM = new SecureRandom();

int mac1\_LENGTH = 7;

String letters = "0123456789";

String uid = "";

for (int i = 0; i < mac1\_LENGTH; i++) {

int index = (int) (RANDOM.nextDouble() \* letters.length());

uid += letters.substring(index, index + 1);

}

sharedkey = uid;

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

String sqlQuery = "update oreq set skey=? where sid=?";

Connection con=null;

PreparedStatement ps=null;

try{

con=DbConnection.getConnection();

ps=con.prepareStatement(sqlQuery);

ps.setString(1,sharedkey);

ps.setInt(2, sid);

int k=0;

k=ps.executeUpdate();

if(k>0){

response.sendRedirect("ofareq.jsp");

}

else{

response.sendRedirect("ofareq.jsp?msg=not updated");

}

}catch(Exception e){

e.printStackTrace();

}

%>

**Readf.jsp:**

<%@page import="java.sql.PreparedStatement"%>

<%@page import="DataBaseCon.DbConnection"%>

<%@page import="java.sql.Connection"%>

<%@page import="java.sql.ResultSet"%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

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<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

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</ul>

</li>

</ul>

</li>

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</ul>

</nav>

</div>

<div style="background-image: url(images/a1.jpg); background-repeat:no-repeat; background-position:center; background-size:cover;">

<center> <br> <h1 style="color: whitesmoke"> Owner Signup</h1> <br> <div class="wrap-login100" >

<%

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

String filedata=null;

String sql1="select \* from filedetails where fid='"+fid+"'";

Connection con=null;

ResultSet rs=null;

try

{

con = DbConnection.getConnection();

PreparedStatement ps=con.prepareStatement(sql1);

rs =ps.executeQuery();

while(rs.next())

{

filedata=rs.getString("file");

<%

}

%>

<textarea rows="50" cols="50" readonly><%=filedata%></textarea>

<%

}catch(Exception e1)

{

out.println(e1.getMessage());

}

%>

</div>

</center>

<br><br><br><br><br><br><br><br>

<div class="wrapper row5">

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</div></body></html>