<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Cloud Login</title>

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

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

<link rel="stylesheet" type="text/css" href="css/coin-slider.css" />

<script type="text/javascript" src="js/cufon-yui.js"></script>

<script type="text/javascript" src="js/cufon-titillium-250.js"></script>

<script type="text/javascript" src="js/jquery-1.4.2.min.js"></script>

<script type="text/javascript" src="js/script.js"></script>

<script type="text/javascript" src="js/coin-slider.min.js"></script>

</head>

<body>

<div class="main">

<div class="header">

<div class="header\_resize">

<div class="logo">

<h1><a href="index.html"><span>Flexible and Fine-Grained Attribute- Based</span></a></h1>

<h1><a href="index.html"><span>Data Storage in Cloud

Computing</span></a></h1>

</div>

<div class="menu\_nav">

<ul>

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

<li><a href="DU\_Login.jsp"><span>Data User </span></a></li>

<li><a href="DO\_Login.jsp"><span>Data Owner </span></a></li>

<li><a href="GM\_Login.jsp"><span>Group Manager </span></a></li>

<li><a href="TA\_Login.jsp"><span>Trusted Authority</span></a></li>

<li class="active"><a href="CS\_Login.jsp"><span>Cloud Server

</span></a></li>

</ul>

</div>

<div class="clr"></div>

<div class="slider">

<div id="coin-slider"><a href="#"><img src="images/slide1.jpg" width="935" height="307" alt="" /></a> <a href="#"><img src="images/slide2.jpg" width="935" height="307" alt="" /></a> <a href="#"><img src="images/slide3.jpg" width="935" height="307" alt="" /></a></div>

<div class="clr"></div>

</div>

<div class="clr"></div>

</div>

</div>

<div class="content">

<div class="content\_resize">

<div class="mainbar">

<div class="article">

<h2><span>Cloud Login </span></h2>

<p class="infopost">&nbsp;</p>

<div class="clr"></div>

<div class="article">

<form action="CS\_Authentication.jsp" method="post" id="leavereply">

<label for="name"><br />

Name

(required)&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; </label>

<input name="userid" type="text" class="box" id="name" value="" />

<label for="email"><br />

<br />

Password (required)&nbsp; &nbsp; </label>

<input type="password" id="pass" name="pass" class="box" />

<p>&nbsp;</p>

<p>

<input name="imageField" type="submit" class="LOGIN" id="imageField" value="Login" />

<input type="reset" name="imageField" id="imageField" class="RESET" />

</p>

<p>&nbsp; </p>

</form>

<p aligns="justify">&nbsp;</p>

</div>

<div class="clr"></div>

</div>

</div>

<div class="sidebar">

<div class="searchform">

<form id="formsearch" name="formsearch" method="post" action="#">

<span>

<input name="editbox\_search" class="editbox\_search" id="editbox\_search" maxlength="80" value="Search:" type="text" />

</span>

<input name="button\_search" src="images/search.gif" class="button\_search"

type="image" />

</form>

</div>

<div class="clr"></div>

<div class="g1">

<div class="g2">

<div class="gadget">

<h2 class="star">Menu</h2>

<div class="clr"></div>

<ul class="sb\_menu">

<li><a href="DU\_Login.jsp">Data User</a></li>

<li><a href="DO\_Login.jsp">Data Owner </a></li>

<li><a href="CS\_Login.jsp">Cloud Server</a></li>

<li><a href="GM\_Login.jsp">Group Manager</a></li>

<li><a href="TA\_Login.jsp">Trusted Authority</a></li>

</ul>

</div>

</div>

</div>

</div>

<div class="clr"></div>

</div>

</div>

<div class="fbg">

<div class="fbg\_resize">

<div class="col c1">

<h2>collusion attack</h2>

<a href="#"><img src="images/gal1.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal2.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal3.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal4.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img

src="images/gal5.jpg" width="75" height="75" alt="" class="gal" /></a> <a

href="#"><img src="images/gal6.jpg" width="75" height="75" alt="" class="gal"

/></a> </div>

<div class="col c2">

<h2>attribute-based encryption</h2>

<p aligns="justify">With the increasing of sensitive data outsourced to cloud, cloud

storage services are facing many challenges including data security and data access

control. To solve those problems, attribute-based encryption (ABE) schemes have

been applied to cloud storage services</p>

<ul class="fbg\_ul">

<li></li>

<li></li>

<li></li>

</ul> </div>

<div class="col c3">

<h2>outsource decryption</h2>

<p aligns="justify">The operation associated with the dummy attribute is

performed locally while the operation associated with the sub-tree is outsourced to

ECSP. <br />

To securely outsource decryption operation with<br />

heavy bilinear computation, user’s private key is blinded</p>

</div>

<div class="clr"></div>

</div>

</div>

<div class="footer">

<div class="footer\_resize">

<p class="lf">&nbsp;</p>

<p class="rf">&nbsp;</p>

<div style="clear:both;"></div>

</div>

</div>

</div>

<div align=center></div>

</body>

</html>

Source Code for Cloud Server ViewFiles:

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>

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

<%@ include file="connect.jsp" %>

<%@page import ="java.util.\*, java. security. Key,java.util.Random,javax.crypto.Cipher,javax.crypto.spec. SecretKeySpec,org.bouncycastle.util.encoders.Base64"%>

<%@ page

import="java.sql. \*, java. util.Random,java.io.PrintStream,java.io.FileOutputStream,java. io. FileInputStream, java. security.DigestInputStream,java.math.BigInteger,java.security. MessageDigest,java.io.BufferedInputStream" %>

<%@ page import ="java. security. Key, java. security.KeyPair,java.security.KeyPairGenerator,javax.crypto. Cipher"%>

<%@page import ="java.util.\*, java.text. SimpleDateFormat, java.util.Date,java.io.FileInputStream,java.io. FileOutputStream,java.io.PrintStream"%>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Cloud </title>

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

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

<link rel="stylesheet" type="text/css" href="css/coin-slider.css" />

<script type="text/javascript" src="js/cufon-yui.js"></script>

<script type="text/javascript" src="js/cufon-titillium-250.js"></script>

<script type="text/javascript" src="js/jquery-1.4.2.min.js"></script>

<script type="text/javascript" src="js/script.js"></script>

<script type="text/javascript" src="js/coin-slider.min.js"></script>

<style type="text/css">

<!--

.style21 {font-size: 14px}

.style23 {color: #666666; font-weight: bold;}

.style24 {

font-size: 16px;

font-weight: bold;

}

-->

</style>

</head>

<body>

<div class="main">

<div class="header">

<div class="header\_resize">

<div class="logo">

<h1><a href="index.html"><span>Flexible and Fine-Grained Attribute- Based</span></a></h1>

<h1><a href="index.html"><span>Data Storage in Cloud

Computing</span></a></h1>

</div>

<div class="menu\_nav">

<ul>

<li class="active"><a href="CS\_Main.jsp"><span>Home </span></a></li>

<li><a href="CS\_Login.jsp"><span>Logout</span></a></li>

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

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

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

</ul>

</div>

<div class="clr"></div>

<div class="slider">

<div id="coin-slider"><a href="#"><img src="images/slide1.jpg" width="935" height="307" alt="" /></a> <a href="#"><img src="images/slide2.jpg" width="935" height="307" alt="" /></a> <a href="#"><img src="images/slide3.jpg" width="935" height="307" alt="" /></a></div>

<div class="clr"></div>

</div>

<div class="clr"></div>

</div>

</div>

<div class="content">

<div class="content\_resize">

<div class="mainbar">

<div class="article">

<h2><span>All Files</span> &amp; Videos </h2>

<p class="infopost">&nbsp;</p>

<div class="clr"></div>

<div class="article">

<p class="style24">Files </p>

<p class="style24">&nbsp;</p>

<table width="600" border="2" cellpadding="0" cellspacing="0" style="border- collapse:collapse" align="center">

<tr>

<td width="51" height="30"><div align="center" class="style21"><span

class="style23"> ID </span></div></td>

<td width="130"><div align="center" class="style21"><span

class="style23">File Name </span></div></td>

<td width="120"><div align="center" class="style21"><span

class="style23">Data Owner </span></div></td>

<td width="120"><div align="center" class="style21"><span

class="style23">Secret Key </span></div></td>

<td width="140"><div align="center" class="style21"><span

class="style23">Date &amp; Time </span></div></td>

<%

String s1="",s2="",s3="",s4="",s5="",s6="",s7="",s8,s9="",s10,s11,s12,s13;

int i=0, j=0, k=0;

try

{

String query1="Select \*from cloudserver ";

Statement st1=connection.createStatement();

ResultSet rs1=st1.executeQuery(query1);

while (rs1.next())

{

i=rs1.getInt(1);

s2=rs1.getString(2);

s3=rs1.getString(7);

s8=rs1.getString(5);

s6=rs1.getString(8);

String keys = "ef50a0ef2c3e3a5f";

byte [] keyValue = keys.getBytes();

Key key = new SecretKeySpec (keyValue, "AES");

Cipher c = Cipher.getInstance("AES");

c.init(Cipher.DECRYPT\_MODE, key);

String dt = new

String (Base64.decode(s3. getBytes ()));

%>

</tr>

<tr>

<td height="28"><div align="center"><%=i%></div></td>

<td><div align="center"><a

href="CS\_filedetails.jsp?fname=<%=s2%>"><%=s2%></div></td>

<td><div align="center"><%=s6%></div></td>

<td><div align="center"><%=s8%></div></td>

<td><div align="center"><%=dt%></div></td>

<%

}

%>

</tr>

</table>

<p aligns="justify">&nbsp;</p>

<p aligns="justify">&nbsp;</p>

<p class="style24">Videos </p>

<p class="style24">&nbsp;</p>

<table width="600" border="2" cellpadding="0" cellspacing="0"

style="border-collapse:collapse" align="center">

<tr>

<td width="51" height="30"><div align="center" class="style21"><span

class="style23"> ID </span></div></td>

<td width="130"><div align="center" class="style21"><span

class="style23">File Name </span></div></td>

<td width="120"><div align="center" class="style21"><span

class="style23">Data Owner </span></div></td>

<td width="120"><div align="center" class="style21"><span

class="style23">Secret Key </span></div></td>

<td width="140"><div align="center" class="style21"><span

class="style23">Date &amp; Time </span></div></td><%

<String query="Select \*from cloud\_videos ";

Statement st=connection.createStatement();

ResultSet rs=st.executeQuery(query);

while (rs.next() )

{

i=rs.getInt(1);

s4=rs.getString(2);

s5=rs.getString(4);

s7=rs.getString(6);

s9=rs.getString(8);

String keys = "ef50a0ef2c3e3a5f";

byte [] keyValue = keys.getBytes();

Key key = new SecretKeySpec(keyValue, "AES" Cipher c = Cipher.getInstance("AES");

c.init(Cipher.DECRYPT\_MODE, key);

String s41 = new String (Base64.decode(s4. getBytes ()));

String s51 = new

String (Base64.decode(s5. getBytes ()));

String s71 = new

String (Base64.decode(s7. getBytes ()));

%>

</tr>

<tr>

<td height="28"><div align="center"><%=i%></div></td>

<td><div align="center"><a

href="CS\_playvideo.jsp?fname=<%=s41%>"><%=s41%></a></div></td>

<td><div align="center"><%=s51%></div></td>

<td><div align="center"><%=s9%></div></td>

<td><div align="center"><%=s71%></div></td>

<%

}

connection.close();

}

catch (Exception e)

{

out.println(e.getMessage());

}

%>

</tr>

</table>

<p>&nbsp;</p>

<p align="right"><a href="CS\_Main.jsp">Back</a></p>

</div><div class="clr"></div>

</div>

</div>

<div class="sidebar">

<div class="searchform">

<form id="formsearch" name="formsearch" method="post" action="#">

<span>

<input name="editbox\_search" class="editbox\_search" id="editbox\_search" maxlength="80" value="Search:" type="text" />

</span>

<input name="button\_search" src="images/search.gif" class="button\_search"

type="image" />

</form>

</div>

<div class="clr"></div>

<div class="g1">

<div class="g2">

<div class="gadget">

<h2 class="star">Menu</h2>

<div class="clr"></div>

<ul class="sb\_menu">

<li><a href="CS\_Main.jsp">Home </a></li>

<li><a href="CS\_ViewAttacker.jsp">Attackers</a></li>

<li><a href="CS\_ViewTransaction.jsp">Transactions</a></li>

<li><a href="CS\_ViewGC.jsp">Group Certificates</a></li>

<li><a href="CS\_DUAuthorize.jsp">User Authorization </a></li>

<li><a href="CS\_ViewResults.jsp">Group Users Chart </a></li>

<li><a href="CS\_DecryptPer.jsp">Decrypt Permission </a></li>

<li><a href="CS\_Login.jsp">Logout</a></li>

</ul>

</div>

</div>

</div>

</div>

<div class="clr"></div>

</div>

</div>

<div class="fbg">

<div class="fbg\_resize">

<div class="col c1">

<h2>collusion attack</h2>

<a href="#"><img src="images/gal1.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal2.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal3.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal4.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img

src="images/gal5.jpg" width="75" height="75" alt="" class="gal" /></a> <a

href="#"><img src="images/gal6.jpg" width="75" height="75" alt="" class="gal"

/></a> </div>

<div class="col c2">

<h2>attribute-based encryption</h2>

<p aligns="justify">With the increasing of sensitive data outsourced to cloud, cloud

storage services are facing many challenges including data security and data access

control. To solve those problems, attribute-based encryption (ABE) schemes have been

applied to cloud storage services</p>

<ul class="fbg\_ul">

<li></li>

<li></li>

<li></li>

</ul>

</div>

<div class="col c3">

<h2>outsource decryption</h2>

<p aligns="justify">The operation associated with the dummy attribute is

performed

locally while the operation associated with the sub-tree is outsourced to ECSP. <br />

To securely outsource decryption operation with<br />

heavy bilinear computation, user’s private key is blinded</p>

</div>

<div class="clr"></div>

</div>

</div>

<div class="footer">

<div class="footer\_resize">

<p class="lf">&nbsp;</p>

<p class="rf">&nbsp;</p>

<div style="clear:both;"></div>

</div>

</div>

</div>

<div align=center></div>

</body>

</html>

Source Code for Data Owner Login:

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Data Owner Login</title>

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

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

<link rel="stylesheet" type="text/css" href="css/coin-slider.css" />

<script type="text/javascript" src="js/cufon-yui.js"></script>

<script type="text/javascript" src="js/cufon-titillium-250.js"></script>

<script type="text/javascript" src="js/jquery-1.4.2.min.js"></script>

<script type="text/javascript" src="js/script.js"></script>

<script type="text/javascript" src="js/coin-slider.min.js"></script>

</head>

<body>

<div class="main">

<div class="header">

<div class="header\_resize">

<div class="logo">

<h1><a href="index.html"><span>Flexible and Fine-Grained Attribute- Based</span></a></h1>

<h1><a href="index.html"><span>Data Storage in Cloud

Computing</span></a></h1>

</div>

<div class="menu\_nav">

<ul>

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

<li><a href="DU\_Login.jsp"><span>Data User </span></a></li>

<li class="active"><a href="DO\_Login.jsp"><span>Data Owner

</span></a></li>

<li><a href="GM\_Login.jsp"><span>Group Manager </span></a></li>

<li><a href="TA\_Login.jsp"><span>Trusted Authority</span></a></li>

<li><a href="CS\_Login.jsp"><span>Cloud Server </span></a></li>

</ul>

</div>

<div class="clr"></div>

<div class="slider">

<div id="coin-slider"><a href="#"><img src="images/slide1.jpg" width="935" height="307" alt="" /></a> <a href="#"><img src="images/slide2.jpg" width="935" height="307" alt="" /></a> <a href="#"><img src="images/slide3.jpg" width="935" height="307" alt="" /></a></div>

<div class="clr"></div>

</div>

<div class="clr"></div>

</div>

</div>

<div class="content">

<div class="content\_resize">

<div class="mainbar">

<div class="article">

<h2><span>Data Owner Login </span></h2>

<p class="infopost">&nbsp;</p>

<div class="clr"></div>

<div class="article">

<form action="DO\_Authentication.jsp" method="post" id="leavereply">

<label for="name"><br />

Name

(required)&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; </label>

<input name="userid" type="text" class="box" id="name" value="" />

<label for="email"><br />

<br />

Password (required)&nbsp; &nbsp; </label>

<input type="password" id="pass" name="pass" class="box" />

<p>&nbsp;</p>

<p>

<input name="imageField" type="submit" class="LOGIN" id="imageField" value="Login" />

<input type="reset" name="imageField" id="imageField" class="RESET" />

</p>

<p>New Data Owner? click here to <a href="DO\_Register.jsp">

Register</a></p>

</form>

<p aligns="justify">&nbsp;</p>

</div>

<div class="clr"></div>

</div>

</div>

<div class="sidebar">

<div class="searchform">

<form id="formsearch" name="formsearch" method="post" action="#">

<span>

<input name="editbox\_search" class="editbox\_search" id="editbox\_search" maxlength="80" value="Search:" type="text" />

</span>

<input name="button\_search" src="images/search.gif" class="button\_search"

type="image" />

</form>

</div>

<div class="clr"></div>

<div class="g1">

<div class="g2">

<div class="gadget">

<h2 class="star">Menu</h2>

<div class="clr"></div>

<ul class="sb\_menu">

<li><a href="DU\_Login.jsp">Data User</a></li>

<li><a href="DO\_Login.jsp">Data Owner </a></li>

<li><a href="CS\_Login.jsp">Cloud Server</a></li>

<li><a href="GM\_Login.jsp">Group Manager</a></li>

<li><a href="TA\_Login.jsp">Trusted Authority</a></li>

</ul>

</div>

</div>

</div>

</div>

<div class="clr"></div>

</div>

</div>

<div class="fbg">

<div class="fbg\_resize">

<div class="col c1">

<h2>collusion attack</h2>

<a href="#"><img src="images/gal1.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal2.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal3.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img src="images/gal4.jpg" width="75" height="75" alt="" class="gal" /></a> <a href="#"><img

src="images/gal5.jpg" width="75" height="75" alt="" class="gal" /></a> <a

href="#"><img src="images/gal6.jpg" width="75" height="75" alt="" class="gal"

/></a> </div>

<div class="col c2">

<h2>attribute-based encryption</h2>

<p align="justify">With the increasing of sensitive data outsourced to cloud, cloud

storage services are facing many challenges including data security and data access

control. To solve those problems, attribute-based encryption (ABE) schemes have been

applied to cloud storage services</p>

<ul class="fbg\_ul">

<li></li>

<li></li>

<li></li>

</ul>

</div>

<div class="col c3">

<h2>outsource decryption</h2>

<p aligns="justify">The operation associated with the dummy attribute is

performed locally while the operation associated with the sub-tree is outsourced to

ECSP. <br />

To securely outsource decryption operation with<br />

heavy bilinear computation, user’s private key is blinded</p>

</div>

<div class="clr"></div>

</div>

</div>

<div class="footer">

<div class="footer\_resize">

<p class="lf">&nbsp;</p>

<p class="rf">&nbsp;</p>

<div style="clear:both;"></div>

</div>

</div>

</div>

<div align=center></div>

</body>

</html>