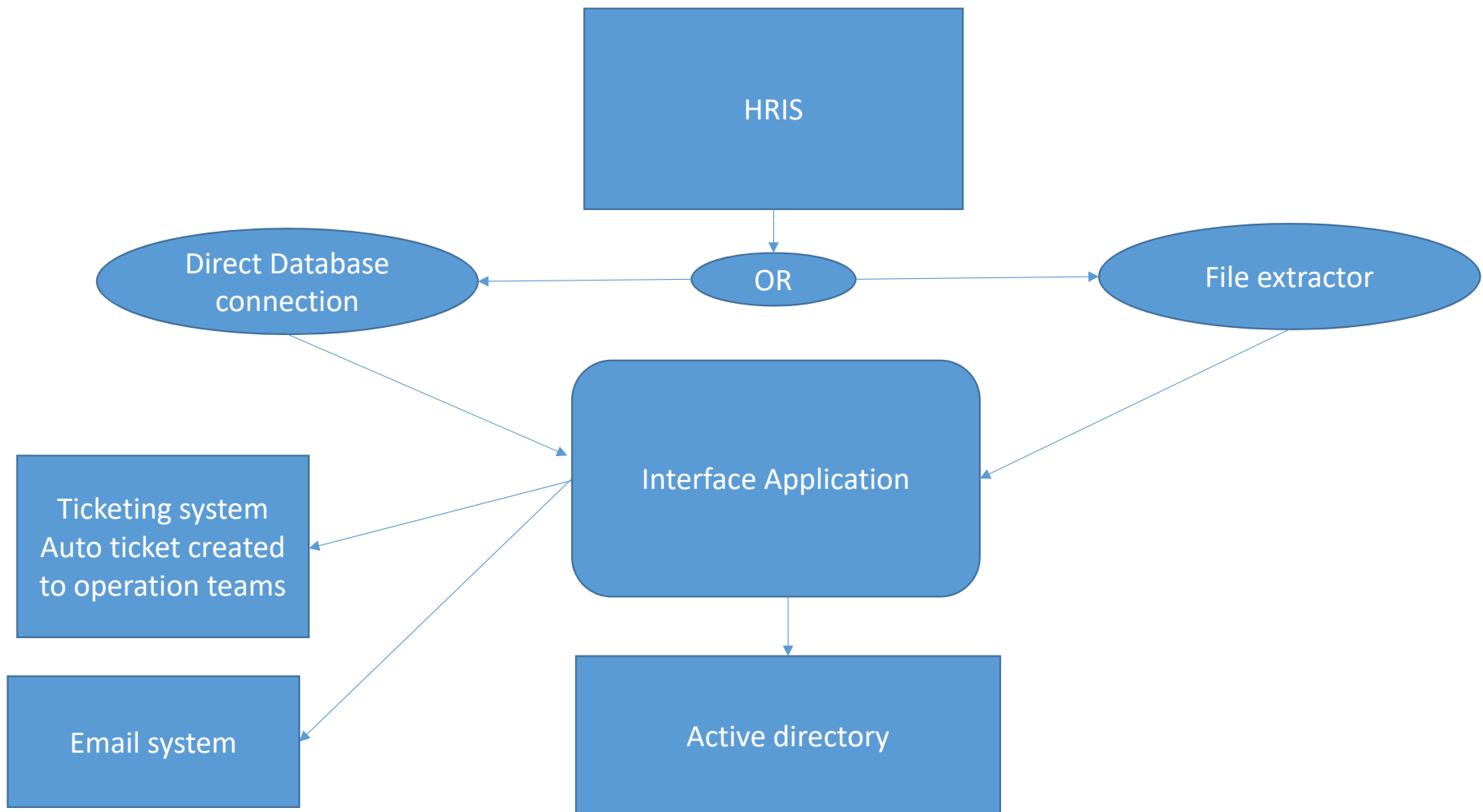
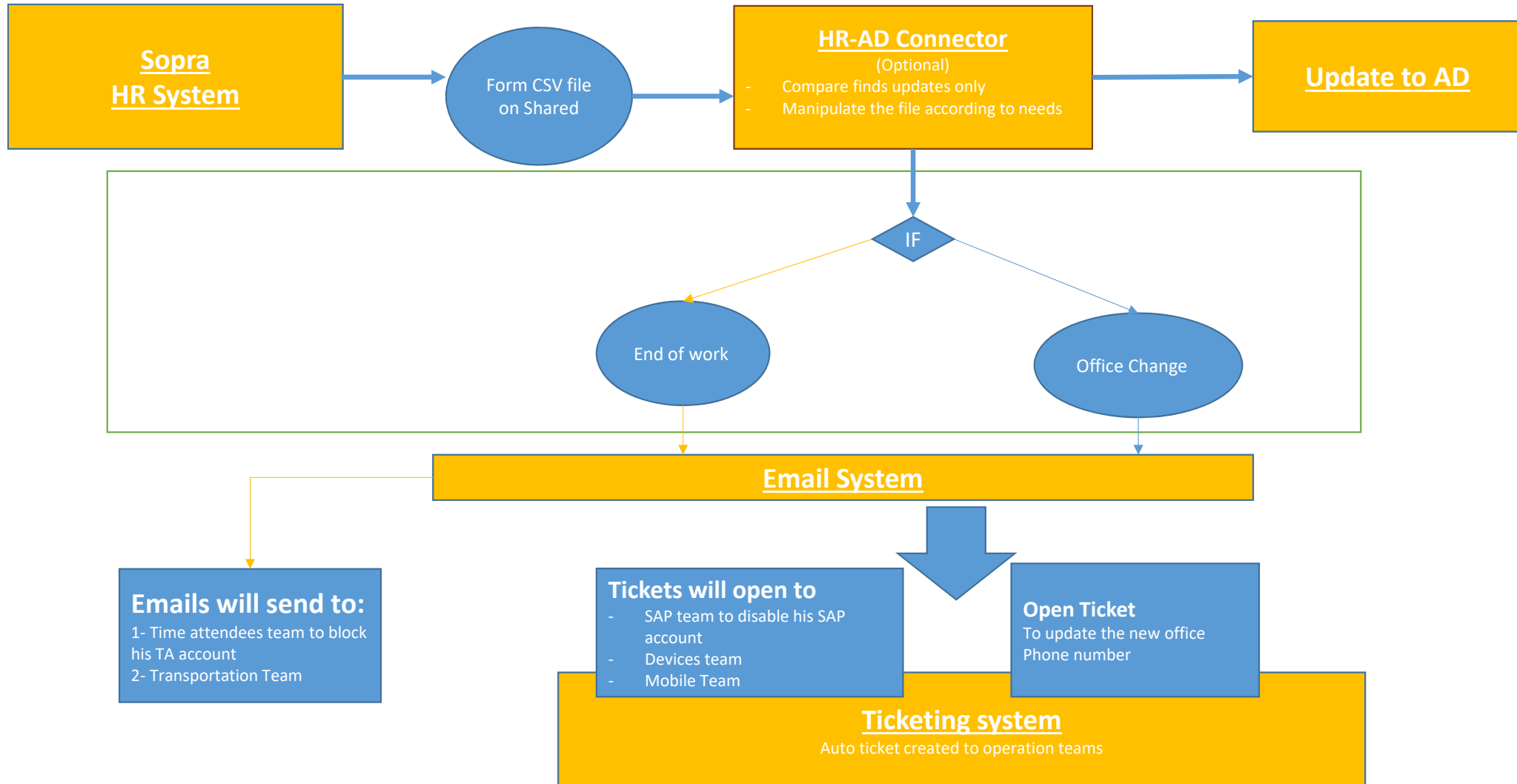


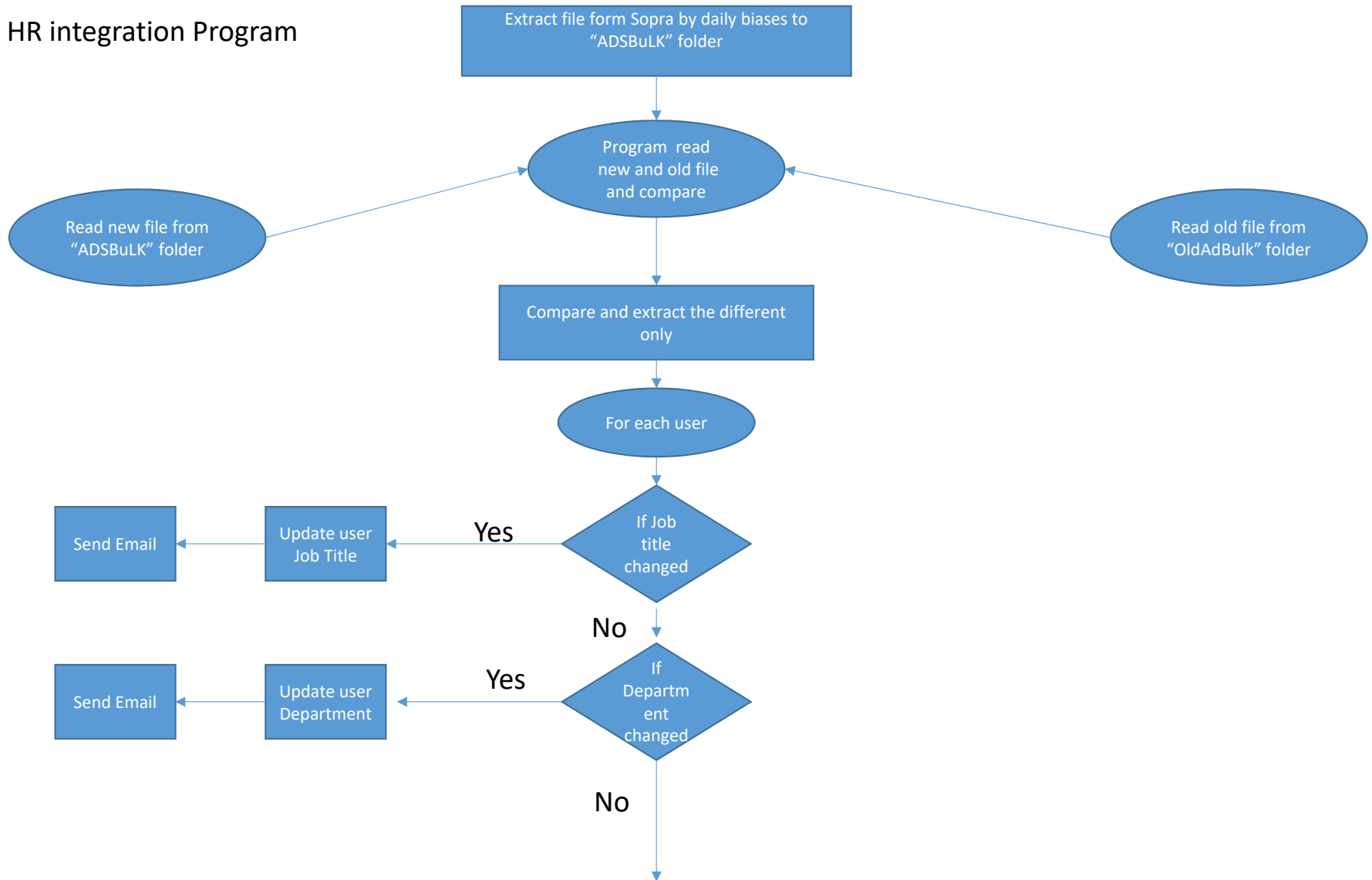
## HRIS and Active directory Integration

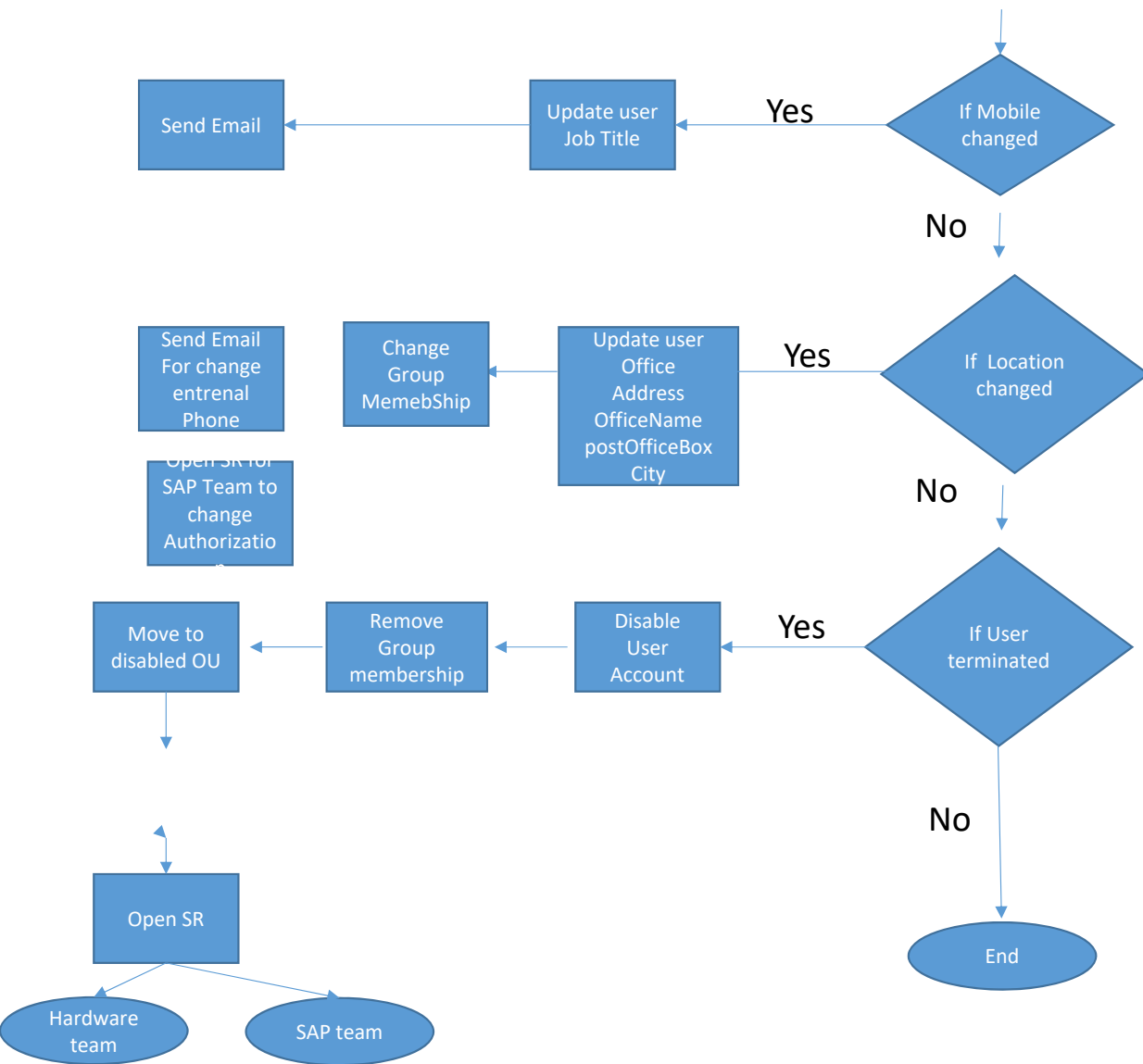


## Integration By File Extractor



## AD – HR integration Program





## Java Code

//@ Sherief Elrweney

```
package new1;

import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.FileOutputStream;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.OutputStreamWriter;
import java.io.Reader;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.PrintWriter;
import java.util.Scanner;
import java.util.Set;
import java.util.logging.Level;
import java.util.logging.Logger;
import java.net.URISyntaxException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Calendar;
import java.util.HashSet;
import java.util.List;
import java.util.Properties;
import java.text.SimpleDateFormat;
import javax.mail.*;
import javax.mail.internet.*;
import javax.activation.*;
import com.sun.mail.smtp.SMTPTransport;
import java.security.Security;
import java.util.Date;
import javax.mail.Message;
import javax.mail.MessagingException;
import javax.mail.Session;
import javax.mail.internet.AddressException;
import javax.mail.internet.InternetAddress;
import javax.mail.internet.MimeMessage;
import javax.naming.directory.*;
import javax.naming.AuthenticationException;
import javax.naming.AuthenticationNotSupportedException;
import javax.naming.Context;
import javax.naming.NamingEnumeration;
import javax.naming.NamingException;
import javax.naming.directory.Attributes;
import javax.naming.directory.DirContext;
```

```

import javax.naming.directory.InitialDirContext;
import javax.naming.directory.SearchControls;
import javax.naming.directory.SearchResult;
import javax.naming.ldap.InitialLdapContext;
import javax.naming.ldap.LdapContext;
import javax.security.auth.login.AppConfigurationEntry;
import javax.naming.directory.BasicAttribute;
import javax.naming.directory.DirContext;
import javax.naming.directory.InitialDirContext;
import javax.naming.directory.ModificationItem;
import javax.xml.transform.ErrorListener;
import java.util.Hashtable;
import javax.naming.ldap.Control;
import javax.naming.ldap.InitialLdapContext;
import javax.naming.ldap.LdapContext;
import javax.naming.ldap.PagedResultsControl;
import javax.naming.ldap.PagedResultsResponseControl;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;

//import com.ma.model.AppUserToAD;
//import com.ma.model.Non_GAppUserFromAD;
//import com.ma.properties.Params;
public class adbulk1 {
    @SuppressWarnings("unlikely-arg-type")
    public static void main(String[] args) throws IOException, URISyntaxException, NamingException,
AddressException, MessagingException{
        String DATE_FORMAT = "yyyyMMdd";
        SimpleDateFormat sdf =
            new SimpleDateFormat(DATE_FORMAT);
        Calendar c1 = Calendar.getInstance(); // today
        // System.out.println("Today is " + sdf.format(c1.getTime()));

        @SuppressWarnings("resource")
        //BufferedReader in1 = new BufferedReader(new FileReader("d://1.csv"));//old
        BufferedReader in1 = new BufferedReader(new
FileReader("//10.26.1.50/Share/Departments/HeadOffice/IT/ADSBuLK/OldAdBulk/ADBulkOld.txt"));//old
        @SuppressWarnings("resource")
        //BufferedReader in2 = new BufferedReader(new FileReader("d://2.csv"));//New
        BufferedReader in2 = new BufferedReader(new
FileReader("//10.26.1.50/Share/Departments/HeadOffice/IT/ADSBuLK/Test"+sdf.format(c1.getTime())+".txt"));//New

        List<String> log = new ArrayList<String>();
        String str1;
        String str2;
        List<String> list1 = new ArrayList<String>();//old
        List<String> list3 = new ArrayList<String>();
        List<String> list2 = new ArrayList<String>();//New
        List<String> list4 = new ArrayList<String>();
        List<String> list6 = new ArrayList<String>();
        String []gNotKattamya= {"CN=SUZ - Helwan Employees,OU=Distribution

```



```

Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net","CN=SUZ - Tourah Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"};
////////////////////////////////Active Directory Connection////////////////////////////////
Hashtable<String, String> env = new Hashtable<String, String>();
String adminName = "";
//String adminName = "kkkk"; //using user principal name run much fast
String adminPassword = "";
String ldapURL = "ldap://suz1332ads01.suz.itcgr.net:389";

//EGYPT/QUATTAMYIA/Assets/Users
env.put(Context.INITIAL_CONTEXT_FACTORY,"com.sun.jndi.ldap.LdapCtxFactory");

//set security credentials,
env.put(Context.SECURITY_AUTHENTICATION,"DIGEST-MD5");
env.put(Context.SECURITY_PRINCIPAL,adminName);
env.put(Context.SECURITY_CREDENTIALS,adminPassword);
env.put(Context.PROVIDER_URL,ldapURL);
//connect to my domain controller
env.put(Context.PROVIDER_URL,ldapURL);

////////////////////////////////Mail setup////////////////////////////////

//mail setup//
    final String senderEmailID = "u1332000552@suz.itcgr.net";

    // Recipient's email ID needs to be mentioned.
String to = "s.elrweney@suezcem.com";
String to1 = "m.kotb@suezcem.com";
String to2 = "m.eid@suezcem.com";
String to3 = "ahmed.hassanen@suezcem.com";
String to4 = "SRSupport@suezcem.com";
String to5 = "scc-admin@suezcem.com";

// Sender's email ID needs to be mentioned
String from = "itsupport@suezcem.com";

// Assuming you are sending email from localhost
String host = "smtpgr.itcgr.net";

// Get system properties
Properties properties = System.getProperties();

// Setup mail server
properties.setProperty("mail.smtp.host", host);
properties.setProperty("mail.user",senderEmailID);
properties.setProperty("mail.smtp.starttls.enable", "true");
//properties.put("mail.smtp.auth", "true");
//properties.setProperty("mail.user", "s.elrweney@suezcem.com");
//properties.setProperty("mail.password", senderPassword);
// Get the default Session object.
// Authenticator auth = new Authenticator();
Session session = Session.getDefaultInstance(properties);

```



```

// Create a default MimeMessage object.

// Session session1 = Session.getInstance(properties, auth);
MimeMessage message = new MimeMessage(session);

// Set From: header field of the header.
// message.setFrom(new InternetAddress(from));

// Set To: header field of the header.
// message.addRecipient(Message.RecipientType.TO, new InternetAddress(to));

// Set Subject: header field
// message.setSubject("This is the Subject Line!");

// Now set the actual message
// message.setText("This is actual message");

// Send message
// Transport.send(message);
// System.out.println("Sent message successfully....");
// catch (MessagingException mex)
// mex.printStackTrace();

// String command = "powershell.exe \"C:\\Pathtofile\\script.ps\" ";

////////////////////////////////////
while((str1 = in1.readLine()) != null){
    list1.add(str1);

while((str2 = in2.readLine()) != null){
    list2.add(str2);

    }}
String[] stringArr2 = list2.toArray(new String[0]); // New File
list3 = list1; // Old File
list4 = list2; // New File
// System.out.println(list3);
// System.out.println(list4);
String[] stringArr1 = list1.toArray(new String[0]); // old file

//for(int k=0;k<stringArr1.length;k++) { System.out.println(stringArr1[k]);}
List<String> list7 = new ArrayList<String>();

for (int i=0 ; i< stringArr1.length;i++) {
    if(!Arrays.asList(stringArr2).contains(stringArr1[i])) { list7.add(stringArr1[i]); }

String [] old =list7.toArray(new String[0]);
for (int i=0 ; i< old.length;i++) {System.out.println("this is different Old "+old[i]);}
Set<String> ad = new HashSet<String>(list3); //OLD

```

```

Set<String> bd = new HashSet<String>(list4);// NEW
//Set<String> bd1 = new HashSet<String>();
bd.removeAll(ad);
//System.out.println("this is different New "+bd);

List<String> list5 = new ArrayList<String>();
list5.addAll(bd);// The different new
String [] strr5 =list5.toArray(new String[0]);//this is different New
for (int i=0 ; i< strr5.length;i++) {System.out.println("this is different New "+strr5[i]);}

BufferedWriter bw =
new BufferedWriter (new FileWriter
("//10.26.1.50/Share/Departments/HeadOffice/IT/ADSBuLK/DifferentADBulk/different"+sdf.format(c1.getTime())+".txt"));
for (String line : strr5 ){
    bw.write (line);
    bw.newLine();}

bw.close ();

for (int i=0 ; i< strr5.length;i++) {String strr6 = strr5[i];
System.out.println(strr6.substring(0, 6));

//System.out.println(stringArr1[i].substring(0, 6));
//System.out.println(stringArr1[i]);Arrays.asList(stringArr1).contains(strr6)
for (int k=0 ; k< old.length;k++) {
    if(old[k].substring(0, 6).equals(strr5[i].substring(0, 6)))
    { //list6.add(stringArr1[i]);
    // String [] strr7 =list6.toArray(new String[0]);
    System.out.println("i need this " +strr5[i]+ " :: "+ old[k]);
    String [] parts1=old[k].split(";");
    String [] parts=strr5[i].split(";");
    for (int o=0 ; o< parts1.length;o++) {System.out.println("i need this also OLD " + parts1[o]+" ::
NEW "+parts[o]);}

    System.out.println("i need this also new " +parts[3]);

LdapContext ctx = new InitialLdapContext(env,null);

SearchControls searchCtls = new SearchControls();
SearchControls searchCtsg = new SearchControls();
SearchControls searchCtlsManager = new SearchControls();
//Specify the search scope
searchCtls.setSearchScope(SearchControls.SUBTREE_SCOPE);
searchCtsg.setSearchScope(SearchControls.SUBTREE_SCOPE);
searchCtlsManager.setSearchScope(SearchControls.SUBTREE_SCOPE);
//specify the LDAP search filter for USER
String searchFilter = "(&(objectClass=user)(sAMAccountName="+parts[1]+"))";
//specify the LDAP search filter for USER
String searchFilterMangaer = "(&(objectClass=user)(sAMAccountName="+parts[9]+"))";

//Specify the Base for the search
String searchBase = "DC=suz,DC=itcgr,DC=net";

```

```

//initialize counter to total the group members
int totalResults = 0;

//Specify the attributes to return
String returnedAtts[]={"distinguishedName"};// for user
String returnedAttsG[]={"memberOf"};// for Groups
String returnedAttsManager[]={"distinguishedName"};// for Manager
searchCtls.setReturningAttributes(returnedAtts);//for User
searchCtlsG.setReturningAttributes(returnedAttsG); // for groups
searchCtlsManager.setReturningAttributes(returnedAttsManager); // for manager
//Search for objects using the filter
NamingEnumeration<?> answer = ctx.search(searchBase, searchFilter, searchCtls); //for user
NamingEnumeration<?> answerG = ctx.search(searchBase, searchFilter, searchCtlsG); //for groups
NamingEnumeration<?> answerManager = ctx.search(searchBase, searchFilterMangaer,
searchCtlsManager); //for manager

//Loop through the search results
// while (answer.hasMoreElements()) {
    SearchResult sr = (SearchResult)answer.next();
    SearchResult srG = (SearchResult)answerG.next(); //for groups
    SearchResult srManager = (SearchResult)answerManager.next(); //for Manager
    //System.out.println(">>>" + sr.getName());

//Print out the members

    Attributes attrs = sr.getAttributes();
    Attributes attrsG = srG.getAttributes(); //For Groups
    Attributes attrsManager = srManager.getAttributes(); //For Manager

    // if (attrs != null) {
        //for (NamingEnumeration<?> ae = attrs.getAll(); ae.hasMore();) {
            //Attribute attr = (Attribute)ae.next();
            //System.out.println("Attribute: " + attr.getID());
            //for (NamingEnumeration<?> e = attr.getAll(); e.hasMore(); totalResults++) {
                NamingEnumeration<?> e = attrs.getAll();
                String test= (String) e.nextElement().toString();
                String userName = test.substring(19);
                // System.out.println( test.substring(19));
            ///////////////////////////////////////////////////Find Manager//////////////////////////////////////

                NamingEnumeration<?> eM = attrsManager.getAll();
                String Manager= (String) eM.nextElement().toString();
                String userNameManager = Manager.substring(19);
                System.out.println( "User Manager :"+userNameManager);
            ///////////////////////////////////////////////////Find Groups//////////////////////////////////////
                NamingEnumeration<?> aeg = attrsG.getAll();
                // Attribute attrg = (Attribute)aeg.nextElement();
                List<String> listg = new ArrayList<String>();
                if (aeg.hasMoreElements()) {Attribute attrg =
(Attribute)aeg.nextElement();

                System.out.println("Attribute: " + attrg.getID());
                // String [] groups= new String[totalResults++];

```

[illegible]

```

}
// break;

// for(int k1=0;k1<strr7.length;k1++) {
//String test3 = strr7[k1];
//System.out.println(strr5[t]);

//String[] parts2 = test3.split(","); */
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////Change
Title////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////
////////////////////////////////////////////////////////////////
if (!parts1[2].equals(parts[2]) && parts1[0].equals(parts[0] ))
{ ModificationItem mods[] = new ModificationItem[1];

mods[0]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("title", parts[2]));
//mods[1]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("Department", parts[6]));

//update the group
ctx.modifyAttributes(userName,mods);

// ctx.close();

System.out.println( test.substring(19));
System.out.println( parts[2]+"iiiiiii"+parts1[2]);
MimeMessage message2 = new MimeMessage(session);

// Set From: header field of the header.
message2.setFrom(new InternetAddress(from));

// Set To: header field of the header.
message2.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
// message2.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
// message2.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
// message2.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));
// break;
// Set Subject: header field
message2.setSubject("The Job Title for the user '"+parts[1]+'"' has been changed");

// Now set the actual message
message2.setText("The Job Title for the user '"+parts[1]+'"' has been changed from "+ parts1[2]+" to "+parts[2]);

// Send message
Transport.send(message2);
//System.out.println("Sent message successfully....");

```

[illegible]



```

/////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////
if (!parts1[9].equals(parts[9])&& parts1[0].equals(parts[0])) {ModificationItem mods[] = new ModificationItem[1];

mods[0]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new
BasicAttribute("manager",userNameManager));
ctx.modifyAttributes(userName,mods);

System.out.println( test.substring(19));
System.out.println( parts[9]+"iiiiii"+parts1[9]);

MimeMessage message1 = new MimeMessage(session);

// Set From: header field of the header.
message1.setFrom(new InternetAddress(from));

// Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
// message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
// message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
// message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));

// Set Subject: header field
message1.setSubject("The Manager for the user '"+parts[1]+" has been changed");

// Now set the actual message
message1.setText("The Manager for the user '"+parts[1]+" has been changed to "+parts[9]);

// Send message
Transport.send(message1);
System.out.println("Sent message successfully....");
log.add("The Manager for the user '"+parts[1]+" has been changed to "+parts[9]);

}

/////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////Change Office to
Kattamya/////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////
/////////////////////////////////////////////////////////////////

if (!parts1[10].equals(parts[10])&& parts1[0].equals(parts[0]) && parts[10].equals ("Kattameya Plant"))
{ModificationItem mods[] = new ModificationItem[4];

mods[0]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new
BasicAttribute("physicalDeliveryOfficeName", "EGY/Kattameya/K30-Maadi, Ein El-Sokhna Road"));
mods[1]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("postOfficeBox",
"2691"));

```



```

mods[2]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("l", "Cairo"));
mods[3]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("streetAddress", "K30
Maadi/Ein Sokhna Road\r\n" +
"\r\n" +
"\r\n" +
"P.O. Box 2691\r\n" +
"\r\n" +
"Cairo - Egypt"));

//update the group

//update the group
// mods[4] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", "CN=AD-
IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"));
//mods[4] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("MEMBER_OF", "CN=AD-
IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"));
//ctx.modifyAttributes("CN=AD-IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
ctx.modifyAttributes(userName,mods);
//ctx.close();
String [] userHQ= userName.split(",");
String moveToHqOU=userHQ[0]+
",ou=Users,ou=Assets,ou=QUATTAMYIA,ou=EGYPT,DC=suz,DC=itcgr,DC=net";
ctx.rename(userName,moveToHqOU);
System.out.println( test.substring(19));
System.out.println( parts1[10]+" Changed to "+parts[10]);

MimeMessage message1 = new MimeMessage(session);

// Set From: header field of the header.
message1.setFrom(new InternetAddress(from));

// Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
// message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
// message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
// message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));

// Set Subject: header field
message1.setSubject("The office Location for the user '"+parts[1]+'"' has been changed");

// Now set the actual message
message1.setText("The office Location for user '"+parts[1]+'"' has been changed form '"+parts1[10]+'"' to
"'"+parts[10]+'"/r/n'+ " and moved to QUATTAMYIA OU ");

// Send message
Transport.send(message1);
System.out.println("Sent message successfully....");
log.add("The office Location for user '"+parts[1]+'"' has been changed form '"+parts1[10]+'"' to "'"+parts[10]+'"/r/n'+ "
and moved to QUATTAMYIA OU ");
}
////////////////////////////////////
////////

```

```
////////////////////////////////////
////////
////////////////////////////////////Change Office Kattamya and remove other employee
group////////////////////////////////////
////////////////////////////////////
////////
```

```
if (!parts1[10].equals(parts[10])&& parts1[0].equals(parts[0]) && parts[10].equals ("Kattameya Plant") )
{ModificationItem mods[] = new ModificationItem[1];
```

```
//update the group
```

```
//update the group
//mods[4] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", "CN=AD-
IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"));
//mods[4] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("MEMBER_OF", "CN=AD-
IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"));
//ctx.modifyAttributes("CN=AD-IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
//ctx.modifyAttributes(userName,mods);
//ctx.close();
System.out.println( test.substring(19));
for (int a=0;a<gNotKattamya.length;a++) {if ( (Arrays.asList(Groups).contains(gNotKattamya[a]))
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes(gNotKattamya[a], mods);
System.out.println( "Group Removed: "+(gNotKattamya[a]));
log.add("Group "+gNotKattamya[a]+" Removed from user '"+parts[1]);}}
```

```
if(!Arrays.asList(Groups).contains("CN=SUZ-SendInternetMail,OU=Security
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"))
{mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ-SendInternetMail,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net",
mods);
log.add("Group 'SUZ-SendInternetMail' Added to user '"+parts[1]);}
```

```
if (!Arrays.asList(Groups).contains("CN=SUZ - Kattameya Employees,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"))
{mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Kattameya Employees,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
log.add("Group 'SUZ - Kattameya Employees' Added to user '"+parts[1]);}
```

```
MimeMessage message1 = new MimeMessage(session);
```

```
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));
```

```
//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
```

```
for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a])))  
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));  
ctx.modifyAttributes(gManagers[a], mods);  
System.out.println( "Group Manager Removed: "+(gManagers[a]));  
log.add("Group "+gManagers[a]+" Removed from user '"+parts[1]);}}}
```

```
mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Kattameya Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
MimeMessage message1 = new MimeMessage(session);
```

```
//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));
```

```
//Now set the actual message
message1.setText("Group manager Added to: "+parts[1]);
```

```

////////////////////////////////////
//////////
////////////////////////////////////
//////////
////////////////////////////////////Change Office to Kattamya and update group manager pormoted
////////////////////////////////////
////////////////////////////////////
//////////

```

```
System.out.println( test.substring(19));
```

```
mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Kattameya Managers,OU=Distribution
```

```
//update the group
```

```
//mods[4] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", "CN=AD-IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"));
//mods[4] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("MEMBER_OF", "CN=AD-IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"));
//ctx.modifyAttributes("CN=AD-IT,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
ctx.modifyAttributes(userName,mods);
//ctx.close();
```

```
String [] userHQ= userName.split(",");
String moveToHqOU=userHQ[0]+
",ou=Users,ou=Assets,ou=QUATTAMYIA,ou=EGYPT,DC=suz,DC=itcgr,DC=net";
ctx.rename(userName,moveToHqOU);
System.out.println( test.substring(19));
System.out.println("Location for user: "+ parts1[10]+" has Changed to "+parts[10]);
```

```
MimeMessage message1 = new MimeMessage(session);
```

```
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));
```

```
//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to4));
```

```
//Set Subject: header field
message1.setSubject("The office Location for the user '"+parts[1]+'"' has been changed");
```

```
//Now set the actual message
message1.setText("The office Location for user '"+parts[1]+'"' has been changed form '"+parts1[10]+'"' to
"'"+parts[10]+'"/r/n'+ " and moved to QUATTAMYIA OU ");
```

```
//Send message
Transport.send(message1);
//System.out.println("Sent message successfully....");
log.add("The office Location for user '"+parts[1]+'"' has been changed form '"+parts1[10]+'"' to "'"+parts[10]+'"/r/n'+ "
and moved to QUATTAMYIA OU ");
}
```

```
////////////////////////////////////
////////////////////////////////////
```

```
////////////////////////////////////Add Headquarter employee
groups////////////////////////////////////
////////////////////////////////////Change Office Headquarters and remove other employee
group////////////////////////////////////
////////////////////////////////////Add Internet Email
Group////////////////////////////////////
```

```
if (!parts1[10].equals(parts[10])&& parts1[0].equals(parts[0]) && parts[10].equals ("Headquarters") )
{ModificationItem mods[] = new ModificationItem[1];
```

```
//Remove other employee groups
for (int a=0;a<gNotHeadQuarter.length;a++) {if ( (Arrays.asList(Groups).contains(gNotHeadQuarter[a]))))
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes(gNotHeadQuarter[a], mods);
System.out.println( "Group Removed: "+(gNotHeadQuarter[a]));
log.add("Group "+gNotHeadQuarter[a]+" Removed from user ""+parts[1]);}}

//add send internet mail groups
if(!Arrays.asList(Groups).contains("CN=SUZ-SendInternetMail,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"))
{mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ-SendInternetMail,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net",
mods);
log.add("Group 'SUZ-SendInternetMail' Added to user ""+parts[1]);}

//Add headquarter employee groups
if (!Arrays.asList(Groups).contains("CN=SUZ - Headquarter Employees,OU=Distribution Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"))
{mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Headquarter Employees,OU=Distribution Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
log.add("Group 'SUZ - Headquarter Employees' Added to user ""+parts[1]);}
MimeMessage message1 = new MimeMessage(session);

//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));

//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));

//Set Subject: header field
message1.setSubject("Group Removed from the use ""+parts[1]+"" has been changed");

//Now set the actual message
message1.setText("Group Removed from the use ""+parts[1]);

//Send message
Transport.send(message1);
//System.out.println("Sent message successfully....");

}
```

////////////////////////////////////  
/////////  
////////////////////////////////////  
/////////  
////////////////////////////////////Change Office Headquarter and update group manager

```
////////////////////////////////////
////////////////////////////////////
////////////////////////////////////
////////////////////////////////////
////////////////////////////////////
```

```
if (!parts1[10].equals(parts[10])&& parts1[0].equals(parts[0]) && parts[10].equals ("Headquarters") )
{ModificationItem mods[] = new ModificationItem[1];
```

```
if (Arrays.asList(Groups).contains("CN=SUZ - Headquarter Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Kattameya Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Helwan Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Menya Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Suez Bags Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Suez Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Tourah Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||parts[7].equals("MAN")){
```

```
System.out.println( test.substring(19));
```

```
for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a])))
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes(gManagers[a], mods);
System.out.println( "Group Manager Removed: "+(gManagers[a]));}}
```

```
mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Headquarter Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
MimeMessage message1 = new MimeMessage(session);
log.add("Group 'SUZ - Headquarter Managers' Added to user '"+parts[1]);
System.out.println( "Group manager 'SUZ - Headquarter Managers' Added to: '"+parts[1]);
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));
```

```
//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));
```

```
//Set Subject: header field
message1.setSubject("Group manager added to user: '"+parts[1]);
```

```
//Now set the actual message
message1.setText("Group manager 'SUZ - Headquarter Managers' Added to: '"+parts[1]);
```



```
//Send message
Transport.send(message1);
System.out.println("Sent message successfully....");
}}
```

```

////////////////////////////////////
//////////
////////////////////////////////////
//////////
////////////////////////////////////Change Office Headquarter and update group manager Poromoted
////////////////////////////////////
////////////////////////////////////
////////////////////////////////////
//////////

```

```
if (!parts1[7].equals(parts[7])&& parts1[0].equals(parts[0]) && parts[10].equals ("Headquarters") &&
parts[7].equals("MAN") ) {ModificationItem mods[] = new ModificationItem[1];
```

```
System.out.println( test.substring(19));
```

```
for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a])))  
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));  
ctx.modifyAttributes(gManagers[a], mods);  
System.out.println( "Group Manager Removed: "+(gManagers[a]));}}
```

```
mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Headquarter Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
MimeMessage message1 = new MimeMessage(session);
log.add("Group 'SUZ - Headquarter Managers' Added to user '"+parts[1]");
System.out.println("CN=SUZ - Headquarter Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net");
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));
```

```
//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));
```

```
//Set Subject: header field
message1.setSubject("Group manager added to user: "+parts[1]);
```

```
//Now set the actual message
message1.setText("Group manager Added to: "+parts[1]);
```



```
//Set To: header field of the header.  
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));  
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));  
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));  
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));  
  
//Set Subject: header field  
message1.setSubject("The office Location for the user '"+parts[1]+' has been changed");  
  
//Now set the actual message  
message1.setText("The office Location for user '"+parts[1]+' has been changed form '"+parts1[10]+' to  
"+parts[10]+" '+' +"/r/n'+ " and moved to SUEZ OU ");  
  
//Send message  
Transport.send(message1);  
//System.out.println("Sent message successfully...");  
log.add("The office Location for user '"+parts[1]+' has been changed form '"+parts1[10]+' to '"+parts[10]+'+'  
+"'/r/n'+ " and moved to SUEZ OU ");  
}  
  
/////////////////////////////////////  
/////////  
/////////////////////////////////////  
/////////  
/////////////////////////////////////Change Office Suez and remove other employee  
group/////////////////////////////////////  
/////////////////////////////////////r/////////////////////////////////////  
/////////  
  
if (!parts1[10].equals(parts[10])&& parts1[0].equals(parts[0]) && parts[10].equals ("Suez Plant") )  
{ModificationItem mods[] = new ModificationItem[1];  
  
//Remove other employee groups  
for (int a=0;a<gNotSuez.length;a++) {if ( Arrays.asList(Groups).contains(gNotSuez[a]))  
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));  
ctx.modifyAttributes(gNotSuez[a], mods);  
System.out.println( "Group Removed: "+(gNotSuez[a]));  
log.add("Group '+gNotSuez[a]+' Removed from user '"+parts[1]);}}  
  
//add send internet mail groups  
if(!Arrays.asList(Groups).contains("CN=SUZ-SendInternetMail,OU=Security  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net"))  
{mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));  
ctx.modifyAttributes("CN=SUZ-SendInternetMail,OU=Security Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net",  
mods);  
log.add("Group 'SUZ-SendInternetMail' Added to user '"+parts[1]);}  
  
//Add Suez employee groups  
  
if (!Arrays.asList(Groups).contains("CN=SUZ - Suez Employees,OU=Distribution
```

```
||parts[7].equals("MAN")) {
```

```
System.out.println( test.substring(19));
```

```
for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a])))
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes(gManagers[a], mods);
System.out.println( "Group Manager Removed: "+(gManagers[a]));} }
```

```
mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Suez Managers,OU=Distribution Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net",
mods);
MimeMessage message1 = new MimeMessage(session);
log.add("Group 'SUZ - Suez Managers' Added to user '"+parts[1]);
System.out.println( "Group Manager Added: CN=SUZ - Suez Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net");
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));
```

```
//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));
```

```
//Set Subject: header field
message1.setSubject("Group manager added to user: '"+parts[1]);
```

```
//Now set the actual message
message1.setText("Group manager Added to: '"+parts[1]);
```

```
//Send message
Transport.send(message1);
System.out.println("Sent message successfully....");
```

```
}}
```

```
if (!parts1[7].equals(parts[7])&& parts1[0].equals(parts[0]) && parts[10].equals ("Suez Plant") &&
parts[7].equals("MAN") ) {ModificationItem mods[] = new ModificationItem[1];
```

```
////////////////////////////////////
////////
////////////////////////////////////
////////
////////////////////////////////////Change Office SUZ and update group manager Poromoted
////////////////////////////////////
////////////////////////////////////
////////
```

```

for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a])))
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes(gManagers[a], mods);
System.out.println( "Group Manager Removed: "+(gManagers[a]));}}

mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Suez Managers,OU=Distribution Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net",
mods);
MimeMessage message1 = new MimeMessage(session);
log.add("Group 'SUZ - Suez Managers' Added to user '"+parts[1]);
System.out.println( "Group Manager Added: CN=SUZ - Suez Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net");
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));

//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));

//Set Subject: header field
message1.setSubject("Group manager added to user: '"+parts[1]);

//Now set the actual message
message1.setText("Group manager Added to: '"+parts[1]);

//Send message
Transport.send(message1);
System.out.println("Sent message successfully....");

}

```

```

#####
#####
#####
#####
#####Change Office
Hellwan#####
#####
#####
#####

```

```
mods[0]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new
BasicAttribute("physicalDeliveryOfficeName", "EGY/Cairo-Helwan/Helwan Cement Plant - Kafr Elelw"));
mods[1]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("postOfficeBox", "16"));
```

```

////////////////////////////////////
////////////////////////////////////
////////////////////////////////////
////////////////////////////////////
////////////////////////////////////Change Office Helwan and remove other employee
group////////////////////////////////////

```





```
if (!parts1[10].equals(parts[10])&& parts1[0].equals(parts[0]) && parts[10].equals ("Helwan Plant") )
{ModificationItem mods[] = new ModificationItem[1];
```

```
if (Arrays.asList(Groups).contains("CN=SUZ - Headquarter Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Kattameya Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Helwan Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Menya Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Suez Bags Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Suez Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||Arrays.asList(Groups).contains("CN=SUZ - Tourah Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
||parts[7].equals("MAN")) {
```

```
System.out.println( test.substring(19));
```

```
for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a]))
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes(gManagers[a], mods);
System.out.println( "Group Manager Removed: "+(gManagers[a]));}}
```

```
mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Helwan Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
log.add("Group 'SUZ - Helwan Managers' Added to user '"+parts[1]);
MimeMessage message1 = new MimeMessage(session);
```

```
System.out.println( "CN=SUZ - Helwan Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net");
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));
```

```
//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));
```

```
//Set Subject: header field
message1.setSubject("Group manager added to user: '"+parts[1]);
```

```
//Now set the actual message
message1.setText("Group manager Added to: '"+parts[1]);
```

```

//Send message
Transport.send(message1);
System.out.println("Sent message successfully....");

}}

////////////////////////////////////
////////////////////////////////////Promoted Helwan Manager////////////////////////////////////

if (!parts1[7].equals(parts[7])&& parts1[0].equals(parts[0]) && parts[10].equals ("Helwan Plant") &&
parts[7].equals("MAN")) {ModificationItem mods[] = new ModificationItem[1];

System.out.println( test.substring(19));

for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a])))
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes(gManagers[a], mods);
System.out.println( "Group Manager Removed: "+(gManagers[a]));}}

mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Helwan Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
log.add("Group 'SUZ - Helwan Managers' Added to user '"+parts[1]);
MimeMessage message1 = new MimeMessage(session);

System.out.println( "CN=SUZ - Helwan Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net");
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));

//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));

//Set Subject: header field
message1.setSubject("Group manager added to user: '"+parts[1]);

//Now set the actual message
message1.setText("Group manager Added to: '"+parts[1]);

//Send message
Transport.send(message1);
System.out.println("Sent message successfully....");

}

```

```
////////////////////////////////////
////////
////////////////////////////////////
////////
//////////////////////////////////Change Office
Tourah////////////////////////////////
////////////////////////////////
////////
```

```
if (!parts1[10].equals(parts[10])&& parts1[0].equals(parts[0]) && parts[10].equals ("Tourah Plant"))
{ModificationItem mods[] = new ModificationItem[4];

mods[0]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new
BasicAttribute("physicalDeliveryOfficeName", "EGY/Cairo-Tourah/Corniche El-Nil, Helwan Road"));
mods[1]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("postOfficeBox", "269"));
mods[2]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("l", "Cairo"));
mods[3]= new ModificationItem(DirContext.REPLACE_ATTRIBUTE, new BasicAttribute("streetAddress","Corniche
El Nile, Helwan Road, Tourah\r\n" +
"P.O. Box 269\r\n" +
"\r\n" +
"Cairo - Egypt"));

//update the group
ctx.modifyAttributes(userName,mods);

String [] userHQ= userName.split(",");
String moveToHqOU=userHQ[0]+ ",ou=Users,ou=Assets,ou=TOURAH,ou=EGYPT,DC=suz,DC=itcgr,DC=net";
ctx.rename(userName,moveToHqOU);
//ctx.close();
System.out.println( test.substring(19));
System.out.println( parts1[10]+" has changed to "+parts[10]);

MimeMessage message1 = new MimeMessage(session);

//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));

//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));

//Set Subject: header field
message1.setSubject("The office Location for the user '"+parts[1]+'"' has been changed");

//Now set the actual message
message1.setText("The office Location for user '"+parts[1]+'"' has been changed FROM "+parts1[10]+ " TO "+
parts[10]+ "\r\n "+ " and moved to TOURAH OU ");

//Send message
Transport.send(message1);
```



```
message1.setSubject("Group Removed from the use '"+parts[1]+"' has been changed");
```

```
//Now set the actual message
```

```
message1.setText("Group Removed from the use '"+parts[1]");
```

```
//Send message
```

```
Transport.send(message1);
```

```
//System.out.println("Sent message successfully....");
```

```
}
```

```
if (!parts1[10].equals(parts[10])&& parts1[0].equals(parts[0]) && parts[10].equals ("Tourah Plant") )  
{ModificationItem mods[] = new ModificationItem[1];
```

```
if (Arrays.asList(Groups).contains("CN=SUZ - Headquarter Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
```

```
||Arrays.asList(Groups).contains("CN=SUZ - Kattameya Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
```

```
||Arrays.asList(Groups).contains("CN=SUZ - Helwan Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
```

```
||Arrays.asList(Groups).contains("CN=SUZ - Menya Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
```

```
||Arrays.asList(Groups).contains("CN=SUZ - Suez Bags Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
```

```
||Arrays.asList(Groups).contains("CN=SUZ - Suez Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
```

```
||Arrays.asList(Groups).contains("CN=SUZ - Tourah Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net")
```

```
||parts[7].equals("MAN")) {
```

```
System.out.println( test.substring(19));
```

```
for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a])))
```

```
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
```

```
ctx.modifyAttributes(gManagers[a], mods);
```

```
System.out.println( "Group Manager Removed First: "+(gManagers[a]));}}
```

```
mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
```

```
ctx.modifyAttributes("CN=SUZ - Tourah Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
```

```
log.add("Group 'SUZ - Tourah Managers' Added to user '"+parts[1]");
```

```
MimeMessage message1 = new MimeMessage(session);
```

```
System.out.println( "Group Manager Added First :CN=SUZ - Tourah Managers,OU=Distribution  
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net");
```

```
//Set From: header field of the header.
```

```
message1.setFrom(new InternetAddress(from));
```

```

//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));

//Set Subject: header field
message1.setSubject("Group manager added to user: "+parts[1]);

//Now set the actual message
message1.setText("Group manager Added to: "+parts[1]);

//Send message
Transport.send(message1);
// System.out.println("Sent message successfully....");

}}

////////////////////////////////////
////////////////////////////////////
////////////////////////////////////promoted to manager Tourah////////////////////////////////////

if (!parts1[7].equals(parts[7])&& parts1[0].equals(parts[0]) && parts[10].equals ("Tourah Plant")&&
parts[7].equals("MAN") ) {ModificationItem mods[] = new ModificationItem[1];

System.out.println( test.substring(19));

for (int a=0;a<gManagers.length;a++) {if ( (Arrays.asList(Groups).contains(gManagers[a])))
{mods[0] = new ModificationItem(DirContext.REMOVE_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes(gManagers[a], mods);
System.out.println( "Group Manager Removed First: "+(gManagers[a]));}}

mods[0] = new ModificationItem(DirContext.ADD_ATTRIBUTE, new BasicAttribute("member", userName));
ctx.modifyAttributes("CN=SUZ - Tourah Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net", mods);
log.add("Group 'SUZ - Tourah Managers' Added to user "+parts[1]);
MimeMessage message1 = new MimeMessage(session);

System.out.println( "Group Manager Added First :CN=SUZ - Tourah Managers,OU=Distribution
Groups,OU=GROUPS,DC=suz,DC=itcgr,DC=net");
//Set From: header field of the header.
message1.setFrom(new InternetAddress(from));

//Set To: header field of the header.
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));

```

```
//Set To: header field of the header.
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
```

[illegible]



```
message1.setFrom(new InternetAddress(from));
```

```
//Set To: header field of the header.
```

```
message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to));
```

```
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
```

```
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
```

```
//message1.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));
```

```
//Set Subject: header field
```

```
message1.setSubject("User has been disabled: "+parts[1]);
```

```
//Now set the actual message
```

```
message1.setText("User has been disabled: "+parts[1]);
```

```
//Send message
```

```
Transport.send(message1);
```

```
//System.out.println("Sent message successfully....");
```

```
}
```

```
}}//the new program
```

```
String [] logFile = log.toArray(new String[0]);
```

```
for (int a=0;a<logFile.length;a++) {System.out.println("this fo log : "+logFile[a]);}
```

```
BufferedWriter logfilein =
```

```
new BufferedWriter (new FileWriter
```

```
("//10.26.1.50/Share/Departments/HeadOffice/IT/ADSBuLK/DifferentADBulk/ADBulkLogFile"+sdf.format(c1.getTime())+".txt"));
```

```
for (String line : logFile ){
```

```
logfilein.write(line);
```

```
logfilein.newLine();
```

```
}logfilein.close ();
```

```
try {
```

```
if (logFile.length == 0) {
```

```
// Create a default MimeMessage object.
```

```
// Set From: header field of the header.
```

```
message.setFrom(new InternetAddress(from));
```

```
// Set To: header field of the header.
```

```
message.setRecipients(Message.RecipientType.TO,  
InternetAddress.parse(to));
```

```
//message.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
```

```
// message.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
// message.addRecipient(Message.RecipientType.BCC, new InternetAddress(to4));
// Set Subject: header field
message.setSubject("Check AD changes for today");
```

```
// Create the message part
BodyPart messageBodyPart = new MimeBodyPart();
```

```
// Now set the actual message
messageBodyPart.setText("Check Attached file for AD changes for today");
```

```
// Create a multipar message
Multipart multipart = new MimeMultipart();
```

```
// Set text message part
multipart.addBodyPart(messageBodyPart);
```

```
// Part two is attachment
messageBodyPart = new MimeBodyPart();
String filename =
```

```
"//10.26.1.50/Share/Departments/HeadOffice/IT/ADSBuLK/DifferentADBulk/ADBulkLogFile"+sdf.format(c1.getTime())+".txt";
```

```
DataSource source = new FileDataSource(filename);
messageBodyPart.setDataHandler(new DataHandler(source));
messageBodyPart.setFileName(filename);
multipart.addBodyPart(messageBodyPart);
```

```
// Send the complete message parts
message.setContent(multipart);
```

```
// Send message
Transport.send(message);
```

```
    } } catch (MessagingException e) {
throw new RuntimeException(e);}
```

```
try {
if (logFile.length != 0) {
// Create a default MimeMessage object.
```

```
// Set From: header field of the header.
message.setFrom(new InternetAddress(from));
```

```
// Set To: header field of the header.
message.setRecipients(Message.RecipientType.TO,InternetAddress.parse(to));
```

```
message.addRecipient(Message.RecipientType.TO, new InternetAddress(to1));
message.addRecipient(Message.RecipientType.TO, new InternetAddress(to2));
message.addRecipient(Message.RecipientType.BCC, new InternetAddress(to4));
message.addRecipient(Message.RecipientType.TO, new InternetAddress(to5));
```

```

message.addRecipient(Message.RecipientType.TO, new InternetAddress(to3));
// Set Subject: header field
message.setSubject("Check AD changes for today");

// Create the message part
BodyPart messageBodyPart = new MimeBodyPart();

// Now set the actual message
messageBodyPart.setText("Check Attached file for AD changes for today");

// Create a multipart message
Multipart multipart = new MimeMultipart();

// Set text message part
multipart.addBodyPart(messageBodyPart);

// Part two is attachment
messageBodyPart = new MimeBodyPart();
String filename =
"//10.26.1.50/Share/Departments/HeadOffice/IT/ADSBuLK/DifferentADBulk/ADBulkLogFile"+sdf.format(c1.getTime
())+".txt";
DataSource source = new FileDataSource(filename);
messageBodyPart.setDataHandler(new DataHandler(source));
messageBodyPart.setFileName(filename);
multipart.addBodyPart(messageBodyPart);

// Send the complete message parts
message.setContent(multipart);

// Send message
Transport.send(message);

System.out.println("array is not empty");

} //End of LOG Email
} catch (MessagingException e) {
    throw new RuntimeException(e);}

}

}

```

