```
package modules.email.action;
import java.io.*;
import java.util.*;
import java.net.*;
public class GetEmail {
    public final static String OUTPATH = "store/email/outbox/";
   public final static String INPATH = "incoming/email";
    public static void getEmail (String name, String domain, String password){
        //Get Email Messages from Server, Save to incoming folder
        Socket server = null;
        BufferedWriter out = null;
        BufferedReader in = null;
        try {
            System.out.println("Opening socket...");
            server = new Socket("localhost", 20002);
            System.out.println("Connection successful!");
            out = new BufferedWriter(new OutputStreamWriter(server.getOutputStream()));
            in = new BufferedReader(new InputStreamReader(server.getInputStream()));
            System.out.println("Sending login information to the server.");
            if(server.isConnected()) {
                out.write("<?xml version='1.0'?>");
                out.write("<verify>");
                out.write("<domain>"+domain+"</domain>");
                out.write("<name>"+name+"</name>");
                out.write("<password>"+password+"</password>");
out.write("</verify>");
                out.newLine();
                out.flush();
                                // flush should write
                server.shutdownOutput();
                int count = 1;
                String response = "";
                while(!(response = in.readLine()).contains("END")) {
                    if(response != null){
                        System.out.println(response);
                    try{
                        FileWriter fstream = new FileWriter("incoming/email/msg_"+count+".xml");
                        BufferedWriter fout = new BufferedWriter(fstream);
                        fout.write(response);
                        fout.close();
                        count++;
                    } catch (Exception e){
                        System.err.println("Error: "+e.getMessage());
                    }
                } // end while loop
            } else {
                System.out.println("Connection with server could not be established.");
               // end if-else
            //out.close();
            in.close();
            server.close();
        } catch(Exception e) {
            e.printStackTrace();
        }
       try{
```

```
Thread.sleep(2000);
   } catch (InterruptedException e){
        e.printStackTrace();
    //Parse the imported files Originally found in the shell script
   int datecnt = 1;
   File folder = new File(INPATH);
   folder.mkdirs();
   File[] listOfFiles = folder.listFiles();
   for (File f : listOfFiles){
        if(f.isFile() && !f.isHidden()){
            //Build the ACL2 script
            String unique = (new Date().toString()) +"_" + datecnt;
            unique = unique.replace(' ', '_');
unique = unique.replace(':', '_');
            String script = "(in-package \"ACL2\")(include-book \"modules/email/action/rw-email\"" +
                     ":uncertified-okp t) (readEmail \"incoming/email/"+f.getName()+"\" \""+unique+"\" ✔
state)";
            try{
            //Run on ACL2
            // Initialize ACL2 and dump its output to the log
            System.out.println("Executing ACL2 runtime for Email Generation...");
            ProcessBuilder processBuilder = new ProcessBuilder("acl2");
            File log = new File("logs/acl2_log.txt");
            processBuilder.redirectErrorStream(true);
            processBuilder.redirectOutput(log);
            Process process;
            process = processBuilder.start();
            PrintWriter procIn = new PrintWriter(process.getOutputStream());
            // Write the ACL2 to the process, close ACL2
            procIn.println(script);
            procIn.println("(good-bye)");
            procIn.flush();
            procIn.close();
            } catch(IOException e) {
                e.printStackTrace();
        }
           try{
               Thread.sleep(3000);
           } catch (InterruptedException e){
                e.printStackTrace();
        f.delete();
        datecnt ++;
   }
}
```

}