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import modules.email.action.*;
import modules.user.register.*;
import javax.swing.*;

import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.IOException;

import java.io.InputStreamReader;import javax.swing.event.ListSelectionListener;
import javax.swing.event.ListSelectionEvent;

import javax.swing.border.EtchedBorder;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.awt.Toolkit;
import java.awt.Color;

/**
 * email Window
 * This file will generate a window for the ACL2 email system. This is a client based window and
 * will call the shell scripts we generated for the ACL2 program
 *
 * mainly, this is a fancy way of entering data instead of using the console and navigating folders.
 *
 * The Icons in this applications are open source obtained from http://openiconlibrary.sourceforge.net/
 * The license stipulates that the icons are free to use, modify and redistribute.
 *
 * March 13, 2013
 * @version 1.0
 * @author Wesley R. Howell
 */

public class emailWindow extends JFrame {

    private static final long serialVersionUID = 1L;
    private File [] listofFiles;
    private String [] names;
    private String currentUser = "matthew.crist";
    private String currentDomain = "localhost";
    private String currentPassword = "simulation";

    /**
     * Run The Email Window object. Most of the code will be handled here.
     */
    public emailWindow() {
        getContentPane().setBackground(new Color(192, 192, 192));
        setIconImage(Toolkit.getDefaultToolkit().getImage("lib/icon.gif"));
        /**
         * Close the application when the window closes.
         */
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        /**
         * Setup Code
         */
        setTitle("ACL2 Email System\n");
        getContentPane().setLayout(null);
        final JList list = new JList();
        list.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);
        list.setBorder(new EtchedBorder(EtchedBorder.RAISED, null, null));
        final JLabel lblBlah = new JLabel();
        lblBlah.setBackground(Color.WHITE);

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JButton btnGetEmail = new JButton("Get Email");
btnGetEmail.setIcon(new ImageIcon("lib/email_open.png"));

/**
 * Get Email Button Action
 */
btnGetEmail.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent arg0) {
        String s;

//
        //GetEmail.getEmail("matthew.crist", "localhost", "simulation");
        GetEmail.getEmail(currentUser, currentDomain, currentPassword);
        try{
            Thread.sleep(2000);
        } catch (InterruptedException e){
            e.printStackTrace();
        }
        //try {
//
//            Process p = Runtime.getRuntime().exec(
//                "sh /Users/w_howell/code/spring-2013-se2-dijkstra
/client/modules/email/email-action/java-email.sh");
//
//            BufferedReader err = new BufferedReader (
//                new InputStreamReader (p.getErrorStream()));
//
//            while ((s = err.readLine()) != null) {
//                System.out.println(s);
//
//            }
//
//            catch (Exception e) {
//                e.printStackTrace();
//
//            }

            //Update Jlist
            File folder = new File("store/email/inbox");
            folder.mkdirs();
            File [] rawContents = folder.listFiles();
            listofFiles = new File[rawContents.length];
            names = new String[rawContents.length];
            // Map<String, File> listforgui = new HashMap<String,File>();
            for (int i = 0; i < rawContents.length; i++){
                if(rawContents[i].isFile() && !rawContents[i].isHidden()){
                    listofFiles[i] = rawContents[i];
                    names[i] = getEmailHeader(listofFiles[i]);
                }
            }
            list.setListData(names);
        }
    });
btnGetEmail.setBounds(16, 6, 117, 29);
getContentPane().add(btnGetEmail);

/**
 * Load the Files in the inbox and add to the list of input
 */
File folder = new File("store/email/inbox");
File [] rawContents = folder.listFiles();
listofFiles = new File[rawContents.length];
names = new String[rawContents.length];
// Map<String, File> listforgui = new HashMap<String,File>();
for (int i = 0; i < rawContents.length; i++){
    if(rawContents[i].isFile() && !rawContents[i].isHidden()){
        listofFiles[i] = rawContents[i];
        names[i] = getEmailHeader(listofFiles[i]);
    }
}
}

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/**
 * Read in the email message when it is clicked
 */
list.addListSelectionListener(new ListSelectionListener() {
    public void valueChanged(ListSelectionEvent arg0) {
        //Open file and get text!

        BufferedReader reader;
        try {
            StringBuilder stringBuilder = new StringBuilder();
            if(list.getSelectedIndex() != -1){
                reader = new BufferedReader( new FileReader (listofFiles[list.
getSelectedIndex()]));

                String line = null;

                String ls = System.getProperty("line.separator");

                while( ( line = reader.readLine() ) != null ) {
                    stringBuilder.append( line );
                    stringBuilder.append( ls );
                }

                lblBlah.setText(stringBuilder.toString());
            } catch (FileNotFoundException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            } catch (IOException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }

        }

    });
list.setBounds(16, 44, 315, 612);
list.setListData(names);
getContentPane().add(list);

/**
 * Extra "eye candy" in the window
 */
JPanel panel = new JPanel();
panel.setBackground(Color.WHITE);
panel.setBorder(new EtchedBorder(EtchedBorder.RAISED, null, null));
panel.setBounds(336, 44, 682, 681);
getContentPane().add(panel);
panel.setLayout(null);

/**
 * Setup for Email Viewer
 */
lblBlah.setVerticalAlignment(SwingConstants.TOP);
lblBlah.setBounds(6, 6, 670, 669);
panel.add(lblBlah);

JLabel lblNewLabel = new JLabel("");
lblNewLabel.addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        try {
            String url = "http://en.wikipedia.org/wiki/ACL2";
            java.awt.Desktop.getDesktop().browse(java.net.URI.create(url));

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        } catch (IOException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
});
lblNewLabel.setIcon(new ImageIcon("lib/logo.gif"));
lblNewLabel.setBounds(16, 688, 83, 74);
getContentPane().add(lblNewLabel);
JLabel lblAc1 = new JLabel("<html><h2>ACL2 Email System</h2><p>2013 Team Dijkstra \n
University of Oklahoma</p></html>\n");
lblAc1.setVerticalAlignment(SwingConstants.TOP);
lblAc1.setBounds(121, 688, 183, 74);
getContentPane().add(lblAc1);

/**
 * New Email Message Button
 */
JButton btnNewMessage = new JButton("New Message");
btnNewMessage.setIcon(new ImageIcon("lib/email_edit.png"));
btnNewMessage.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        newMessage msg = new newMessage();
        msg.setSize(602,487);
        msg.setVisible(true);
    }
});
btnNewMessage.setBounds(142, 6, 132, 29);
getContentPane().add(btnNewMessage);

JLabel lblcodegooglecomspringsedijkstra = new JLabel("<html><font size=4><a href=https://
code.google.com/p/spring-2013-se2-dijkstra//p>code.google.com/p/spring-2013-se2-dijkstra</a>\n    </
font></html>");
lblcodegooglecomspringsedijkstra.addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {

        // open the default web browser for the HTML page
        try {
            String url = "https://code.google.com/p/spring-2013-se2-dijkstra/";
            java.awt.Desktop.getDesktop().browse(java.net.URI.create(url));
        } catch (IOException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
});

/**
 * Link to Google Page
 */
lblcodegooglecomspringsedijkstra.setVerticalAlignment(SwingConstants.TOP);
lblcodegooglecomspringsedijkstra.setBounds(688, 737, 330, 25);
getContentPane().add(lblcodegooglecomspringsedijkstra);

/**
 * Register Email button
 */
JButton btnRegister = new JButton("Register");
btnRegister.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        currentUser = JOptionPane.showInputDialog("Input your name");
        currentDomain = JOptionPane.showInputDialog("input your domain");
        currentPassword = JOptionPane.showInputDialog("Input your Password");

        SendRequest.sendRequest(currentUser, currentDomain, currentPassword);
    }
});

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    }
});
btnRegister.setIcon(new ImageIcon("lib/user_add.png"));
btnRegister.setBounds(901, 6, 117, 29);
getContentPane().add(btnRegister);

JButton btnNewButton = new JButton("Delete Message");
btnNewButton.setIcon(new ImageIcon("lib/email_delete.png"));
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        int currentlySelected = list.getSelectedIndex();
        listofFiles[currentlySelected].delete();

        //Update Jlist
        File folder = new File("store/email/inbox");
        folder.mkdirs();
        File [] rawContents = folder.listFiles();
        listofFiles = new File[rawContents.length];
        names = new String[rawContents.length];

        for (int i = 0; i < rawContents.length; i++){
            if(rawContents[i].isFile() && !rawContents[i].isHidden()){
                listofFiles[i] = rawContents[i];
                names[i] = getEmailHeader(listofFiles[i]);
            }
        }
        list.setListData(names);
    }
});
btnNewButton.setBounds(16, 657, 315, 29);
getContentPane().add(btnNewButton);

}

/**
 * Gets the email header for listing in the JFrame list
 * @param file
 * @return
 */
@SuppressWarnings("resource")
private String getEmailHeader(File file){
    String rv = "";
    BufferedReader reader;
    try {
        reader = new BufferedReader( new FileReader (file));
        String line = null;
        String subject = "";
        String name = "";

        int number = 0;
        while( ( line = reader.readLine() ) != null ) {
            if(number == 1){
                subject = line.substring(4, line.indexOf("</h1>"));
            }
            if(number == 3){
                name = line.substring(11, line.indexOf("</h2>"));
            }
            number++;
        }
        rv = name + " - " + subject + " - " + file.getName().substring(4);
    } catch (FileNotFoundException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (IOException e) {
        // TODO Auto-generated catch block
    }
}

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        e.printStackTrace();
    }
    return rv;
}
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