

MainDialog.java

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2 * MainDialog.java
6
7 package info.stastny.cpbr;
8
9 import java.awt.Desktop;
37
38 /**
39 *
40 * @author Marek Stastny, http://stastny.info
41 */
42 public class MainDialog extends javax.swing.JDialog {
43     private static final long serialVersionUID = 1L;
44     private static String dbPath="", csvPath="";
45     private static DataProtector dp= new DataProtector();
46     private static String hpURL="http://dstats.net/fwd/ublzbz";
47
48     /** Creates new form MainDialog */
49     public MainDialog(java.awt.Frame parent, ModalityType toolkitModal) {
50         super(parent, toolkitModal);
51         initComponents();
52     }
53
54     /** This method is called from within the constructor to
55     * initialize the form.
56     * WARNING: Do NOT modify this code. The content of this method is
57     * always regenerated by the Form Editor.
58     */
61     private void initComponents() {
192
193     private void btDBActionPerformed(java.awt.event.ActionEvent evt)
194     { //GEN-FIRST:event_btDBActionPerformed
195         JFileChooser fc = new JFileChooser(dbPath);
196         fc.setSelectionMode(JFileChooser.DIRECTORIES_ONLY);
197         if (fc.showOpenDialog(this)==JFileChooser.APPROVE_OPTION) {
198             try {
199                 dbPath=fc.getSelectedFile().getCanonicalPath();
200                 tfDB.setText(dbPath);
201             } catch (IOException e) {
202                 errorPanel("Failed to locate profile directory!");
203             }
204         } //GEN-LAST:event_btDBActionPerformed
205
206     private void btCSVActionPerformed(java.awt.event.ActionEvent evt)
207     { //GEN-FIRST:event_btCSVActionPerformed
208         JFileChooser fc = new JFileChooser(csvPath);
209         fc.setSelectionMode(JFileChooser.FILES_ONLY);
210         if (fc.showOpenDialog(this)==JFileChooser.APPROVE_OPTION) {
211             try {
212                 csvPath=fc.getSelectedFile().getCanonicalPath();
213                 tfCSV.setText(csvPath);
214             } catch (IOException e) {
215                 errorPanel("Failed to locate CSV file!");
216             }
217         } //GEN-LAST:event_btCSVActionPerformed
218
219     private void btExportActionPerformed(java.awt.event.ActionEvent evt)
220     { //GEN-FIRST:event_btExportActionPerformed
221         try {

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221         CSVWriter writer=new CSVWriter(new FileWriter(tfCSV.getText()));
222         Connection
conn=DriverManager.getConnection("jdbc:sqlite:"+dbPath+File.separatorChar+"Login
Data");
223
224         Statement st=conn.createStatement();
225         ResultSet rs=st.executeQuery("select * from logins;");
226         ResultSetMetaData rsmd=rs.getMetaData();
227         int columns=rsmd.getColumnCount();
228         int rows=0;
229         int passindex=-1;
230         String[] rsa=new String[columns];
231
232         //1.line = column names
233         for(int i=1;i<=columns;i++){
234             rsa[i-1]=rsmd.getColumnName(i);
235             if (rsmd.getColumnName(i).equals("password_value"))
236                 passindex=i;
237         }
238         writer.writeNext(rsa);
239
240         //Export to CSV
241         while (rs.next()) {
242             for(int i=1;i<=columns;i++){
243                 if (i!=passindex)
244                     rsa[i-1]=rs.getString(i);
245                 else{
246                     rsa[i-1]=dp.unprotect(rs.getBytes(passindex));
247                 }
248             }
249             writer.writeNext(rsa);
250             rows++;
251         }
252         writer.close();
253         conn.close();
254
255         infoPanel("Backup successfully completed ("+rows+" record"+
(rows==1?"":"s")+")!");
256     } catch (Exception e) {
257         errorPanel(e.getMessage()!=null?e.getMessage():e.toString());
258     } //finally...
259
260     } //GEN-LAST:event_btExportActionPerformed
261
262     private void btImportActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_btImportActionPerformed
263         if (JOptionPane.showConfirmDialog(this, "Do You really want to restore data
from following file?\n"+csvPath, null, JOptionPane.YES_NO_OPTION,
JOptionPane.QUESTION_MESSAGE)==JOptionPane.YES_OPTION) {
264             try{
265                 String db=dbPath+File.separatorChar+"Login Data";
266                 CSVReader reader=new CSVReader(new FileReader(tfCSV.getText()));
267                 Connection conn=DriverManager.getConnection("jdbc:sqlite:"+db);
268                 Statement st;
269                 PreparedStatement ps;
270                 String[] rsa, rsh;
271                 int i=0, passindex=-1, rows=0;
272
273                 //Backup Login Data file
274                 copyFile(db, db+String.format(" %ts", new Date()));

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275
276     //Read column names
277     rsh=reader.readNext();
278     i=0;
279     for(String s:rsh){
280         if (s.equals("password_value")){
281             passindex=i;
282             break;
283         }
284         i++;
285     }
286
287     //Process CSV
288     ps = conn.prepareStatement("insert into logins values("+new
String(new char[rsh.length-1]).replace("\0", "?")+"?");
289     conn.setAutoCommit(false);
290     st = conn.createStatement();
291     st.executeUpdate("delete from logins");
292
293     while( (rsa=reader.readNext()) !=null) {
294         i=0;
295         for(String s:rsa){
296             if (i++==passindex){
297                 ps.setBytes(i, dp.protect(s));
298             }else{
299                 ps.setString(i, s);
300             }
301         }
302         ps.executeUpdate();
303         rows++;
304     }
305     conn.commit();
306
307     reader.close();
308     conn.close();
309
310     infoPanel("Restore successfully completed ("+rows+" record"+
(rows==1?"": "s")+")!");
311     } catch(Exception e){
312         errorPanel(e.getMessage() !=null?e.getMessage():e.toString());
313     } //finally...
314
315     }
316     } //GEN-LAST:event_btImportActionPerformed
317
318     private void onNoticeClicked(java.awt.event.MouseEvent evt)
{ //GEN-FIRST:event_onNoticeClicked
319         String errmsg="Cannot open homepage, please start browser and enter
following URL into address bar:\n\n"+hpURL;
320         if (Desktop.isDesktopSupported()) {
321             Desktop desktop = Desktop.getDesktop();
322             try {
323                 desktop.browse(URI.create((hpURL)));
324             } catch (IOException e) {
325                 errorPanel(errmsg);
326             }
327         } else {
328             errorPanel(errmsg);
329         }
330     } //GEN-LAST:event_onNoticeClicked

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331
332     void copyFile(String source, String dest) throws IOException {
333         int size=-1;
334         byte[] buffer=new byte[1024];
335
336         File destFile=new File(dest);
337         if (!destFile.exists())
338             destFile.createNewFile();
339
340         InputStream in=new FileInputStream(new File(source));
341         OutputStream out=new FileOutputStream(destFile);
342
343         while ((size=in.read(buffer))>0) {
344             out.write(buffer, 0, size);
345         }
346
347         in.close();
348         out.close();
349     }
350
351     void errorPanel(String message){
352         JOptionPane.showMessageDialog(this, message, null,
353         JOptionPane.ERROR_MESSAGE);
354     }
355     void infoPanel(String message){
356         JOptionPane.showMessageDialog(this, message, null,
357         JOptionPane.INFORMATION_MESSAGE);
358     }
359     /**
360     * @param args the command line arguments
361     */
362     public static void main(String args[]) {
363         try{
364             System.load(new File(".").getCanonicalPath()
365             +File.separatorChar+"jdpapi-native.dll");
366             Class.forName("org.sqlite.JDBC");
367         }catch(Exception e){
368             JOptionPane.showMessageDialog(null, "Initialization failed!", "Fatal",
369             JOptionPane.ERROR_MESSAGE);
370             System.exit(-1);
371         }
372
373         java.awt.EventQueue.invokeLater(new Runnable() {
374             public void run() {
375                 try{
376                     JFrame.setDefaultLookAndFeelDecorated(true);
377                     MainDialog dialog = new MainDialog((JFrame) null,
378                     ModalityType.TOOLKIT_MODAL);
379                     dialog.tpInfo.setText(" 1. You have to close Chrome browser
380 before doing anything!\n 2. Backup file will contain decrypted passwords in plain
381 text, keep it safe!\n 3. Backup Login Data file located in Chrome profile directory
382 before restoring!\n 4. This application is freeware, provided 'as is' without
383 warranty of any kind!\n 5. Use at Your own Risk! If You are unsure, don't use this
384 application!\n\n Thirdparty Software:\n JDPAPI.sf.net, zentus.com/SQLiteJDBC,
385 OpenCSV.sf.net, Launch4J.sf.net");
386                     dialog.lbNotice.setText("(c)2011 Marek Stastny. Click here to
387 visit homepage of Chrome Passwords Backup&Restore.");
388

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    UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
379         SwingUtilities.updateComponentTreeUI(dialog);
380         dialog.addWindowListener(new java.awt.event.WindowAdapter() {
381             public void windowClosing(java.awt.event.WindowEvent e) {
382                 System.exit(0);
383             }
384         });
385
386         Dimension paneSize = dialog.getSize();
387         Dimension screenSize = dialog.getToolkit().getScreenSize();
388         dialog.setLocation((screenSize.width-paneSize.width)/2, (int)
((screenSize.height-paneSize.height)*0.45));
389
390         //INIT
391         String[] profileDir=new String[3];
392         profileDir[0]=System.getenv("USERPROFILE")+"\\Local
Settings\\Application Data\\Google\\Chrome\\User Data\\Default";
393         profileDir[1]=System.getenv("USERPROFILE")+"\\Local
Settings\\Data aplikací\\Google\\Chrome\\User Data\\Default";
394         profileDir[2]=System.getenv("USERPROFILE")
+"\\AppData\\Local\\Google\\Chrome\\User Data\\Default";
395         for(String pd:profileDir){
396             if (new File(pd).exists()){
397                 dbPath=pd;
398                 break;
399             }
400         }
401         if (dbPath.length()==0){
402             dbPath=System.getenv("USERPROFILE");
403             dialog.errorPanel("Chrome Profile directory not
auto-detected! You will need to locate it manually.");
404         }
405         dialog.tfDB.setText(dbPath);
406
407         csvPath=new
JFileChooser().getFileSystemView().getDefaultDirectory().getCanonicalPath()
+File.separatorChar+"Login Data.csv";
408         dialog.tfCSV.setText(csvPath);
409
410         dialog.setVisible(true);
411     } catch (Exception e) {
412         JOptionPane.showMessageDialog(null, "Initialization failed!",
"Fatal", JOptionPane.ERROR_MESSAGE);
413     }
414 }
415 });
416 }
417
418 // Variables declaration - do not modify//GEN-BEGIN:variables
419 private javax.swing.JButton btCSV;
420 private javax.swing.JButton btDB;
421 private javax.swing.JButton btExport;
422 private javax.swing.JButton btImport;
423 private javax.swing.JLabel jLabel1;
424 private javax.swing.JLabel jLabel2;
425 private javax.swing.JLabel jLabel3;
426 private javax.swing.JScrollPane jScrollPane1;
427 private javax.swing.JLabel lbNotice;
428 private javax.swing.JTextField tfCSV;
429 private javax.swing.JTextField tfDB;

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```
430     private javax.swing.JTextPane tpInfo;  
431     // End of variables declaration//GEN-END:variables  
432 }  
433
```