

E:\Tai lieu hoc tap\Java 3\Assignment1\SOF203_Assignment1_PS04271\src\sof203_assignment1_ps04271\QuanLySinhVien.java

```
1
2 package sof203_assignment1_ps04271;
3
4 import java.awt.event.ActionEvent;
5 import java.awt.event.ActionListener;
6 import java.awt.image.BufferedImage;
7 import java.io.BufferedWriter;
8 import java.io.File;
9 import java.io.FileWriter;
10 import java.math.BigInteger;
11 import java.security.MessageDigest;
12 import java.security.NoSuchAlgorithmException;
13 import java.sql.Connection;
14 import java.sql.Date;
15 import java.sql.DriverManager;
16 import java.sql.PreparedStatement;
17 import java.sql.ResultSet;
18 import java.sql.Statement;
19 import java.text.SimpleDateFormat;
20 import java.util.Properties;
21 import java.util.Vector;
22 import javax.imageio.ImageIO;
23 import javax.mail.Message;
24 import javax.mail.PasswordAuthentication;
25 import javax.mail.Session;
26 import javax.mail.Transport;
27 import javax.mail.internet.InternetAddress;
28 import javax.mail.internet.MimeMessage;
29 import javax.swing.ButtonGroup;
30 import javax.swing.DefaultListModel;
31 import javax.swing.Icon;
32 import javax.swing.ImageIcon;
33 import javax.swing.JFileChooser;
34 import javax.swing.JLabel;
35 import javax.swing.JMenuItem;
36 import javax.swing.JOptionPane;
37 import javax.swing.JPanel;
38 import javax.swing.Timer;
39 import javax.swing.table.DefaultTableModel;
40 import javax.swing.tree.DefaultMutableTreeNode;
41 import javax.swing.tree.DefaultTreeModel;
42 import javax.swing.tree.TreeSelectionModel;
43 import jxl.Workbook;
44 import jxl.write.Label;
45 import jxl.write.WritableSheet;
46 import jxl.write.WritableWorkbook;
47 import jxl.write.Number;
48 /**
49 *
50 * @author Rjk Rắc Rồi PS04271
51 */
52 public class QuanLySinhVien extends javax.swing.JFrame {
53
54     String manv="";
55     int loaitaikhoan=-1;
56     int checkdangnhap = 0;
57     DefaultListModel b = new DefaultListModel();
58     String dsqql="com.microsoft.sqlserver.jdbc:SQLServerDriver";
59     String urlldb = "jdbc:sqlserver://localhost\\SQLEXPRESS;databaseName=quanlysinhvien;user=sa;password=123456";
60     String [] title = {"Mã sinh viên","Tên Sinh Viên","Giới tính","Ngày Sinh","CMND","Email","Địa Chỉ","Ngày Nhập Học"};
61     DefaultTableModel bang = new DefaultTableModel(title,0);
62     ButtonGroup gioitinh1 = new ButtonGroup();
63     ButtonGroup gioitinhdttk = new ButtonGroup();
64     ButtonGroup ccmail = new ButtonGroup();
65     String tennv="";
66     String [] linkdinhkem=new String [1000];
67     int slfile=0;
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68 String [] linkdinhkemall = new String[1000];
69 int slink=0;
70 ButtonGroup ccall = new ButtonGroup();
71
72
73 public QuanLySinhVien() {
74     initComponents();
75     jFrameDangNhap.setVisible(true);
76     this.setLocationRelativeTo(null);
77     jFrameDangNhap.setLocationRelativeTo(this);
78     jFrameTaotaikhoan.setLocationRelativeTo(this);
79     tbthongtin.setModel(bang);
80     gioitinh1.add(rbdtnu);
81     gioitinh1.add(rbdtnam);
82     quyen(false);
83     jFramedoimatkhau.setLocationRelativeTo(this);
84     jFramequanlymk.setLocationRelativeTo(this);
85     dungpopup();
86     btnlopthemsv.setEnabled(false);
87     btnlopxoasv.setEnabled(false);
88     jMenuquanlymatkhau.setEnabled(false);
89     jMenuthongtinnhanvien.setEnabled(false);
90     btngvdong.setEnabled(false);
91     btndtdong.setEnabled(false);
92     btnddong.setEnabled(false);
93     jFramegytimkiem.setLocationRelativeTo(this);
94     gioitinhdttk.add(rbdtknam);
95     gioitinhdttk.add(rbdtknu);
96     gioitinhdttk.add(rbdtkcahai);
97     jFrameditimkiem.setLocationRelativeTo(this);
98     jFrameguimailgylsv.setLocationRelativeTo(this);
99     ccmall.add(rbgmdtbcc);ccmail.add(rbgmdtcc);
100    jFrameguimailall.setLocationRelativeTo(this);
101    ccall.add(rbcc);
102    ccall.add(rbbcc);
103    jMenuulieu.setEnabled(false);
104    jFrameguimailgvnhieusv.setLocationRelativeTo(this);
105    txtqlnvemail.setEditable(false);
106    jFramequenmatkhau.setLocationRelativeTo(jFrameDangNhap);
107
108
109 }
110
111
112
113 @SuppressWarnings("unchecked")
114 // <editor-fold defaultstate="collapsed" desc="Generated Code">
115 private void initComponents() {
116
117     jFrameDangNhap = new javax.swing.JFrame();
118     lbdnquenmk = new javax.swing.JLabel();
119     txtdntaikhoan = new javax.swing.JTextField();
120     jLabel3 = new javax.swing.JLabel();
121     jLabel1 = new javax.swing.JLabel();
122     txtddangnhap = new javax.swing.JButton();
123     txtndmatkhau = new javax.swing.JPasswordField();
124     txtndthoat = new javax.swing.JButton();
125     PanelDangNhap = new javax.swing.JLabel();
126     BackgroundDangNhap = new javax.swing.JLabel();
127     jFrameaotaikhoan = new javax.swing.JFrame();
128     jLabel14 = new javax.swing.JLabel();
129     jLabel34 = new javax.swing.JLabel();
130     jLabel35 = new javax.swing.JLabel();
131     jLabel36 = new javax.swing.JLabel();
132     jLabel37 = new javax.swing.JLabel();
133     jLabel38 = new javax.swing.JLabel();
134     cbtaoloai = new javax.swing.JComboBox<>();
135     txttaotkmanv = new javax.swing.JTextField();
136     txttaotkennv = new javax.swing.JTextField();
137     passtaotkmatkhau = new javax.swing.JPasswordField();

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138 passtaotknhaplaimk = new javax.swing.JPasswordField();
139 btntaotktao = new javax.swing.JButton();
140 btntaotkthoat = new javax.swing.JButton();
141 jFramedoimatkchau = new javax.swing.JFrame();
142 jLabel20 = new javax.swing.JLabel();
143 jLabel21 = new javax.swing.JLabel();
144 jLabel22 = new javax.swing.JLabel();
145 jLabel39 = new javax.swing.JLabel();
146 passdmkmcu = new javax.swing.JPasswordField();
147 passdmkmkmoi = new javax.swing.JPasswordField();
148 passdmknhaplai = new javax.swing.JPasswordField();
149 btndmkdoimk = new javax.swing.JButton();
150 puhinh = new javax.swing.JPopupMenu();
151 jFramequanlymk = new javax.swing.JFrame();
152 jLabel25 = new javax.swing.JLabel();
153 jLabel40 = new javax.swing.JLabel();
154 jLabel41 = new javax.swing.JLabel();
155 txtqlmkmkmoi = new javax.swing.JPasswordField();
156 cbqlmktaikhoan = new javax.swing.JComboBox<>();
157 btnqlmkdoi = new javax.swing.JButton();
158 btnqlmkdong = new javax.swing.JButton();
159 jFramethongtinnhanvien = new javax.swing.JFrame();
160 jLabel42 = new javax.swing.JLabel();
161 lbqlnvinh = new javax.swing.JLabel();
162 jLabel44 = new javax.swing.JLabel();
163 jLabel45 = new javax.swing.JLabel();
164 jLabel46 = new javax.swing.JLabel();
165 txtqlnvtennv = new javax.swing.JTextField();
166 txtqlnvma = new javax.swing.JTextField();
167 cbqlnvchucvu = new javax.swing.JComboBox<>();
168 jScrollPane3 = new javax.swing.JScrollPane();
169 tblnv = new javax.swing.JTable();
170 btnqlnvthaydoi = new javax.swing.JButton();
171 btnqlnvdong = new javax.swing.JButton();
172 btnqlnvxa = new javax.swing.JButton();
173 jLabel88 = new javax.swing.JLabel();
174 txtqlnvemail = new javax.swing.JTextField();
175 puhinhnv = new javax.swing.JPopupMenu();
176 jFramegvtimkiem = new javax.swing.JFrame();
177 jLabel43 = new javax.swing.JLabel();
178 jLabel47 = new javax.swing.JLabel();
179 jLabel48 = new javax.swing.JLabel();
180 jLabel49 = new javax.swing.JLabel();
181 jLabel50 = new javax.swing.JLabel();
182 jLabel51 = new javax.swing.JLabel();
183 cbgvtkpheptoan = new javax.swing.JComboBox<>();
184 txtgvtkmasv = new javax.swing.JTextField();
185 txtgvtktensv = new javax.swing.JTextField();
186 txtgvtklopszv = new javax.swing.JTextField();
187 txtgvtkdiemsv = new javax.swing.JTextField();
188 cbgvtknam = new javax.swing.JComboBox<>();
189 btngvtktim = new javax.swing.JButton();
190 btngvtkdong = new javax.swing.JButton();
191 jFrameditimkiem = new javax.swing.JFrame();
192 jLabel52 = new javax.swing.JLabel();
193 txtdttkmasv = new javax.swing.JTextField();
194 jLabel53 = new javax.swing.JLabel();
195 txtdtktensv = new javax.swing.JTextField();
196 jLabel54 = new javax.swing.JLabel();
197 rdbttknam = new javax.swing.JRadioButton();
198 rdbttknu = new javax.swing.JRadioButton();
199 jLabel55 = new javax.swing.JLabel();
200 txtdttkngaysinh = new javax.swing.JTextField();
201 jLabel56 = new javax.swing.JLabel();
202 txtdttkcmdn = new javax.swing.JTextField();
203 jLabel57 = new javax.swing.JLabel();
204 txtdttkdiachi = new javax.swing.JTextField();
205 jLabel58 = new javax.swing.JLabel();
206 jLabel59 = new javax.swing.JLabel();
207 txtdttkemail = new javax.swing.JTextField();
```

```
208 jLabel60 = new javax.swing.JLabel();
209 btndttktim = new javax.swing.JButton();
210 btndttkdong = new javax.swing.JButton();
211 txtdtktangsinh = new javax.swing.JTextField();
212 txtdtkngsinh = new javax.swing.JTextField();
213 jLabel61 = new javax.swing.JLabel();
214 jLabel62 = new javax.swing.JLabel();
215 txtdtknamnhaphoc = new javax.swing.JTextField();
216 jLabel63 = new javax.swing.JLabel();
217 txtdtktangnhaphoc = new javax.swing.JTextField();
218 jLabel64 = new javax.swing.JLabel();
219 txtdtkngaynhaphoc = new javax.swing.JTextField();
220 rbdttkcahai = new javax.swing.JRadioButton();
221 jFrameguimailgv1sv = new javax.swing.JFrame();
222 jLabel65 = new javax.swing.JLabel();
223 jLabel66 = new javax.swing.JLabel();
224 txtgmgv1svtaikhoan = new javax.swing.JTextField();
225 btngmgv1svgui = new javax.swing.JButton();
226 btngmgv1svdong = new javax.swing.JButton();
227 jScrollPane4 = new javax.swing.JScrollPane();
228 txtgmgv1svghichu = new javax.swing.JTextArea();
229 jLabel67 = new javax.swing.JLabel();
230 txtgmgv1svmatkhau = new javax.swing.JPasswordField();
231 jFrameguimailgvnhieusv = new javax.swing.JFrame();
232 jLabel68 = new javax.swing.JLabel();
233 jLabel69 = new javax.swing.JLabel();
234 txtgmgvnhieusvtaikhoan = new javax.swing.JTextField();
235 btngmgvnhieusvgui = new javax.swing.JButton();
236 btngmgvnhieusvdong = new javax.swing.JButton();
237 jScrollPane5 = new javax.swing.JScrollPane();
238 txtgmgvnhieusvghichu = new javax.swing.JTextArea();
239 jLabel70 = new javax.swing.JLabel();
240 txtgmgvnhieusvmatkhau = new javax.swing.JPasswordField();
241 jFrameguimaildt = new javax.swing.JFrame();
242 jLabel71 = new javax.swing.JLabel();
243 jPanel3 = new javax.swing.JPanel();
244 jLabel72 = new javax.swing.JLabel();
245 jLabel73 = new javax.swing.JLabel();
246 txtgmdtk = new javax.swing.JTextField();
247 txtgmdtmk = new javax.swing.JPasswordField();
248 jPanel6 = new javax.swing.JPanel();
249 jLabel75 = new javax.swing.JLabel();
250 txtgmdttieude = new javax.swing.JTextField();
251 jLabel76 = new javax.swing.JLabel();
252 jScrollPane6 = new javax.swing.JScrollPane();
253 txtgmdtnoidung = new javax.swing.JTextArea();
254 rbgmdtcc = new javax.swing.JRadioButton();
255 rbgmdtbcc = new javax.swing.JRadioButton();
256 btngmdtfileinhkem = new javax.swing.JButton();
257 lbngmdtfileinhkem = new javax.swing.JLabel();
258 btngmdtgui = new javax.swing.JButton();
259 btngmdtdong = new javax.swing.JButton();
260 jFrameguimailall = new javax.swing.JFrame();
261 jLabel80 = new javax.swing.JLabel();
262 jPanel7 = new javax.swing.JPanel();
263 jLabel81 = new javax.swing.JLabel();
264 jLabel82 = new javax.swing.JLabel();
265 txttk = new javax.swing.JTextField();
266 txtmk = new javax.swing.JPasswordField();
267 jPanel9 = new javax.swing.JPanel();
268 jLabel83 = new javax.swing.JLabel();
269 jLabel84 = new javax.swing.JLabel();
270 txtguiden = new javax.swing.JTextField();
271 txttieude = new javax.swing.JTextField();
272 jLabel85 = new javax.swing.JLabel();
273 jScrollPane7 = new javax.swing.JScrollPane();
274 txtnoidung = new javax.swing.JTextArea();
275 rbcc = new javax.swing.JRadioButton();
276 rbbcc = new javax.swing.JRadioButton();
277 btnguifile = new javax.swing.JButton();
```

```
278 lbtenfile = new javax.swing.JLabel();
279 btnGUI = new javax.swing.JButton();
280 btnresetguimail = new javax.swing.JButton();
281 btngmdong = new javax.swing.JButton();
282 jFramequenmatkhau = new javax.swing.JFrame();
283 jLabel86 = new javax.swing.JLabel();
284 jLabel87 = new javax.swing.JLabel();
285 txtqmktaikhoan = new javax.swing.JTextField();
286 btnqmkGUI = new javax.swing.JButton();
287 btnqmkdong = new javax.swing.JButton();
288 jPanel1 = new javax.swing.JPanel();
289 btndoimatkhau = new javax.swing.JButton();
290 jButton4 = new javax.swing.JButton();
291 btndangnhap = new javax.swing.JButton();
292 jLabel18 = new javax.swing.JLabel();
293 jLabel19 = new javax.swing.JLabel();
294 lbngay = new javax.swing.JLabel();
295 lbgio = new javax.swing.JLabel();
296 lbtennv = new javax.swing.JLabel();
297 jLabel23 = new javax.swing.JLabel();
298 btnguimail = new javax.swing.JButton();
299 jScrollPane1 = new javax.swing.JScrollPane();
300 Tdanhsachlop = new javax.swing.JTree();
301 jScrollPane2 = new javax.swing.JScrollPane();
302 tbthongtin = new javax.swing.JTable();
303 tbnhanvien = new javax.swing.JTabbedPane();
304 pgiao vien = new javax.swing.JPanel();
305 jLabel2 = new javax.swing.JLabel();
306 txtgvmasv = new javax.swing.JTextField();
307 jLabel4 = new javax.swing.JLabel();
308 txtgvtensv = new javax.swing.JTextField();
309 jLabel5 = new javax.swing.JLabel();
310 txtgvdiemtoan = new javax.swing.JTextField();
311 jLabel6 = new javax.swing.JLabel();
312 txtgvdiemtin = new javax.swing.JTextField();
313 jLabel7 = new javax.swing.JLabel();
314 txtgvdiemanh = new javax.swing.JTextField();
315 btngvsuadiem = new javax.swing.JButton();
316 btngvxoadiem = new javax.swing.JButton();
317 lbgvhinh = new javax.swing.JLabel();
318 jPanel8 = new javax.swing.JPanel();
319 lbtop3masv1 = new javax.swing.JLabel();
320 lbtop3masv2 = new javax.swing.JLabel();
321 lbtop3masv3 = new javax.swing.JLabel();
322 lbtop3tensv1 = new javax.swing.JLabel();
323 lbtop3tensv2 = new javax.swing.JLabel();
324 lbtop3tensv3 = new javax.swing.JLabel();
325 lbtop3diemtb1 = new javax.swing.JLabel();
326 lbtop3diemtb2 = new javax.swing.JLabel();
327 lbtop3diemtb3 = new javax.swing.JLabel();
328 btngvxuatexcel = new javax.swing.JButton();
329 btngvdong = new javax.swing.JButton();
330 btngvtimkiem = new javax.swing.JButton();
331 btngvguidiem1sv = new javax.swing.JButton();
332 btngvguidiemnhieusv = new javax.swing.JButton();
333 pndt = new javax.swing.JPanel();
334 jLabel8 = new javax.swing.JLabel();
335 txtdtmasv = new javax.swing.JTextField();
336 txtdttensv = new javax.swing.JTextField();
337 jLabel9 = new javax.swing.JLabel();
338 jLabel10 = new javax.swing.JLabel();
339 jLabel11 = new javax.swing.JLabel();
340 rbdtnam = new javax.swing.JRadioButton();
341 rbdtnu = new javax.swing.JRadioButton();
342 jLabel12 = new javax.swing.JLabel();
343 txtdtemailsv = new javax.swing.JTextField();
344 jLabel13 = new javax.swing.JLabel();
345 txtdtiachisv = new javax.swing.JTextField();
346 txtdtemndsv = new javax.swing.JTextField();
347 jLabel16 = new javax.swing.JLabel();
```

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348 jLabel17 = new javax.swing.JLabel();
349 jPanel2 = new javax.swing.JPanel();
350 btndtthemsu = new javax.swing.JButton();
351 btndtsuasv = new javax.swing.JButton();
352 btndtxoasv = new javax.swing.JButton();
353 btndtdong = new javax.swing.JButton();
354 lbhinhdt = new javax.swing.JLabel();
355 btndttimkiem = new javax.swing.JButton();
356 btndtxuatexcel = new javax.swing.JButton();
357 btndtguimail = new javax.swing.JButton();
358 txttdngaysinh = new javax.swing.JTextField();
359 jLabel74 = new javax.swing.JLabel();
360 txttdthangsinh = new javax.swing.JTextField();
361 jLabel77 = new javax.swing.JLabel();
362 txttdnamsinh = new javax.swing.JTextField();
363 txttdnamnhaphoc = new javax.swing.JTextField();
364 jLabel78 = new javax.swing.JLabel();
365 txttdthangnhaphoc = new javax.swing.JTextField();
366 jLabel79 = new javax.swing.JLabel();
367 txttdngaynhaphoc = new javax.swing.JTextField();
368 jPanel4 = new javax.swing.JPanel();
369 txtlmalop = new javax.swing.JTextField();
370 jLabel15 = new javax.swing.JLabel();
371 jLabel26 = new javax.swing.JLabel();
372 txtlmagv = new javax.swing.JTextField();
373 jLabel27 = new javax.swing.JLabel();
374 jLabel28 = new javax.swing.JLabel();
375 jLabel29 = new javax.swing.JLabel();
376 txtllop = new javax.swing.JTextField();
377 txtlnienkhoa = new javax.swing.JTextField();
378 cblkhoi = new javax.swing.JComboBox<>();
379 jPanel5 = new javax.swing.JPanel();
380 btnlthem = new javax.swing.JButton();
381 btnlsualop = new javax.swing.JButton();
382 btnlxoalop = new javax.swing.JButton();
383 pnlthem = new javax.swing.JPanel();
384 btnlopthemsu = new javax.swing.JButton();
385 txtlthemmasv = new javax.swing.JTextField();
386 jLabel30 = new javax.swing.JLabel();
387 jLabel31 = new javax.swing.JLabel();
388 cblthemmalop = new javax.swing.JComboBox<>();
389 pnlxoasv = new javax.swing.JPanel();
390 btnlopxoasv = new javax.swing.JButton();
391 txtlxoamasv = new javax.swing.JTextField();
392 jLabel32 = new javax.swing.JLabel();
393 jLabel33 = new javax.swing.JLabel();
394 cblxoamalop = new javax.swing.JComboBox<>();
395 btnlsvchuacolop = new javax.swing.JButton();
396 jLabel24 = new javax.swing.JLabel();
397 cbdtnienkhoa = new javax.swing.JComboBox<>();
398 btndthiencaolop = new javax.swing.JButton();
399 btnddong = new javax.swing.JButton();
400 jMenuItemBar1 = new javax.swing.JMenuBar();
401 jMenuItem1 = new javax.swing.JMenuItem();
402 jMenuItemtaotaikhoan = new javax.swing.JMenuItem();
403 jMenuItemquanylymatkhau = new javax.swing.JMenuItem();
404 jMenuItemhongtinnhanvien = new javax.swing.JMenuItem();
405 jMenuItem2 = new javax.swing.JMenuItem();
406 jMenuItemlucieu = new javax.swing.JMenuItem();
407 jMenuItemusauluu = new javax.swing.JMenuItem();
408 jMenuItemphuchoi = new javax.swing.JMenuItem();
409 jMenuItem2 = new javax.swing.JMenuItem();
410 jMenuItemAboutus = new javax.swing.JMenuItem();
411
412 JFrameDangNhap.setTitle("Đăng nhập...");
413 JFrameDangNhap.setAlwaysOnTop(true);
414 JFrameDangNhap.setSize(new java.awt.Dimension(480, 280));
415 JFrameDangNhap.getContentPane().setLayout(null);
416
417 lbdnquenmk.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N

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```
418 lbdnquenmk.setForeground(new java.awt.Color(0, 0, 204));
419 lbdnquenmk.setText("Quên mật khẩu.");
420 lbdnquenmk.addMouseListener(new java.awt.event.MouseAdapter() {
421     public void mouseClicked(java.awt.event.MouseEvent evt) {
422         lbdnquenmkMouseClicked(evt);
423     }
424 });
425 JFrameDangNhap.getContentPane().add(lbdnquenmk);
426 lbdnquenmk.setBounds(350, 214, 76, 20);
427
428 txtDntaikhaoan.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));
429 JFrameDangNhap.getContentPane().add(txtDntaikhaoan);
430 txtDntaikhaoan.setBounds(250, 100, 180, 30);
431
432 jLabel3.setFont(new java.awt.Font("VNI-Garam", 1, 14)); // NOI18N
433 jLabel3.setForeground(new java.awt.Color(0, 0, 102));
434 jLabel3.setText("Mật khẩu:");
435 JFrameDangNhap.getContentPane().add(jLabel3);
436 jLabel3.setBounds(170, 140, 64, 30);
437
438 jLabel1.setFont(new java.awt.Font("VNI-Garam", 1, 14)); // NOI18N
439 jLabel1.setForeground(new java.awt.Color(0, 0, 102));
440 jLabel1.setText("Tạo tài khoản:");
441 JFrameDangNhap.getContentPane().add(jLabel1);
442 jLabel1.setBounds(170, 100, 68, 30);
443
444 txtDndangnhap.setFont(new java.awt.Font("VNI-Garam", 1, 12)); // NOI18N
445 txtDndangnhap.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/login1.png"))); // NOI18N
446 txtDndangnhap.setText("Đăng nhập");
447 txtDndangnhap.setPreferredSize(new java.awt.Dimension(89, 20));
448 txtDndangnhap.addActionListener(new java.awt.event.ActionListener() {
449     public void actionPerformed(java.awt.event.ActionEvent evt) {
450         txtDndangnhapActionPerformed(evt);
451     }
452 });
453 JFrameDangNhap.getContentPane().add(txtDndangnhap);
454 txtDndangnhap.setBounds(180, 180, 130, 30);
455
456 txtDnmatkhau.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));
457 JFrameDangNhap.getContentPane().add(txtDnmatkhau);
458 txtDnmatkhau.setBounds(250, 140, 180, 30);
459
460 txtDnthoat.setFont(new java.awt.Font("VNI-Garam", 1, 12)); // NOI18N
461 txtDnthoat.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/shutdown.png"))); // NOI18N
462 txtDnthoat.setText("Thoát");
463 txtDnthoat.addActionListener(new java.awt.event.ActionListener() {
464     public void actionPerformed(java.awt.event.ActionEvent evt) {
465         txtDnthoatActionPerformed(evt);
466     }
467 });
468 JFrameDangNhap.getContentPane().add(txtDnthoat);
469 txtDnthoat.setBounds(320, 180, 110, 30);
470
471 PanelDangNhap.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/icon_login.png"))); // NOI18N
472 JFrameDangNhap.getContentPane().add(PanelDangNhap);
473 PanelDangNhap.setBounds(10, 11, 417, 124);
474
475 BackgroundDangNhap.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/hinhnh/login-background.jpg"))); // NOI18N
476 JFrameDangNhap.getContentPane().add(BackgroundDangNhap);
477 BackgroundDangNhap.setBounds(0, -4, 470, 250);
478
479 JFrameMetaoatkhaoan.setAlwaysOnTop(true);
480 JFrameMetaoatkhaoan.setName("Tạo tài khoản"); // NOI18N
481 JFrameMetaoatkhaoan.setSize(new java.awt.Dimension(450, 300));
482
483 jLabel14.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
484 jLabel14.setText("TẠO TÀI KHOẢN");
485
486 jLabel34.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
487 jLabel34.setText("Mã nhân viên:");
```

```

488
489 jLabel35.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
490 jLabel35.setText("Tên nhân viên:");
491
492 jLabel36.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
493 jLabel36.setText("Mật khẩu:");
494
495 jLabel37.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
496 jLabel37.setText("Nhập lại mật khẩu:");
497
498 jLabel38.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
499 jLabel38.setText("Loại tài khoản:");
500
501 cbtaoloai.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
502 cbtaoloai.setModel(new javax.swing.DefaultComboBoxModel<String[]> { "Admin", "Giáo Viên", "Đào Tạo" });
503
504 txttaotkmanv.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
505
506 txttaotktennv.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
507
508 passtaotkmatkhau.setFont(new java.awt.Font("Tahoma", 0, 12)); // NOI18N
509
510 passtaotknhaplaimk.setFont(new java.awt.Font("Tahoma", 0, 12)); // NOI18N
511
512 bntaotktao.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
513 bntaotktao.setText("Tạo");
514 bntaotktao.addActionListener(new java.awt.event.ActionListener() {
515     public void actionPerformed(java.awt.event.ActionEvent evt) {
516         bntaotktaoActionPerformed(evt);
517     }
518 });
519
520 bntaotkthoat.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
521 bntaotkthoat.setText("Thoát");
522 bntaotkthoat.addActionListener(new java.awt.event.ActionListener() {
523     public void actionPerformed(java.awt.event.ActionEvent evt) {
524         bntaotkthoatActionPerformed(evt);
525     }
526 });
527
528 javax.swing.GroupLayout jFrametaotaikhoanLayout = new javax.swing.GroupLayout(jFrametaotaikhoan.getContentPane());
529 jFrametaotaikhoan.getContentPane().setLayout(jFrametaotaikhoanLayout);
530 jFrametaotaikhoanLayout.setHorizontalGroup(
531     jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
532         .addGroup(jFrametaotaikhoanLayout.createSequentialGroup()
533             .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
534                 .addGroup(jFrametaotaikhoanLayout.createSequentialGroup()
535                     .addGap(78, 78, 78)
536                     .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
537                         .addComponent(jLabel35)
538                         .addComponent(jLabel34)
539                         .addComponent(jLabel36)
540                         .addComponent(jLabel37)
541                         .addComponent(jLabel38)
542                         .addComponent(bntaotktao))
543                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
544                     .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
545                         .addComponent(txttaotkmanv)
546                         .addComponent(txttaotktennv, javax.swing.GroupLayout.DEFAULT_SIZE, 142, Short.MAX_VALUE)
547                         .addComponent(passtaotkmatkhau)
548                         .addComponent(passtaotknhaplaimk)
549                     )
550                     .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
551                         .addComponent(bntaotkthoat)
552                         .addComponent(cbtaoloai, javax.swing.GroupLayout.PREFERRED_SIZE, 82, javax.swing.GroupLayout.PREFERRED_SIZE)))
553                     .addGroup(jFrametaotaikhoanLayout.createSequentialGroup()
554                         .addGap(139, 139, 139)
555                         .addComponent(jLabel14)))
556             .addContainerGap(122, Short.MAX_VALUE))
557 );
jFrametaotaikhoanLayout.setVerticalGroup(

```



```

558 jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
559 .addGroup(jFrametaotaikhoanLayout.createSequentialGroup())
560 .addContainerGap()
561 .addComponent(jLabel14, javax.swing.GroupLayout.PREFERRED_SIZE, 63, javax.swing.GroupLayout.PREFERRED_SIZE)
562 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
563 .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
564 .addComponent(jLabel34, javax.swing.GroupLayout.PREFERRED_SIZE, 26, javax.swing.GroupLayout.PREFERRED_SIZE)
565 .addComponent(txttaotkmanv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
566 .addGap(1, 1, 1)
567 .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
568 .addComponent(jLabel35, javax.swing.GroupLayout.PREFERRED_SIZE, 29, javax.swing.GroupLayout.PREFERRED_SIZE)
569 .addComponent(txttaotktennv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
570 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
571 .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
572 .addComponent(jLabel36, javax.swing.GroupLayout.PREFERRED_SIZE, 23, javax.swing.GroupLayout.PREFERRED_SIZE)
573 .addComponent(passtaoatkmatkhou, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
574 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
575 .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
576 .addComponent(jLabel37, javax.swing.GroupLayout.PREFERRED_SIZE, 23, javax.swing.GroupLayout.PREFERRED_SIZE)
577 .addComponent(passtaoatknhaplaimk, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
578 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
579 .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
580 .addComponent(jLabel38, javax.swing.GroupLayout.PREFERRED_SIZE, 23, javax.swing.GroupLayout.PREFERRED_SIZE)
581 .addComponent(cbttaoloi, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
582 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
583 .addGroup(jFrametaotaikhoanLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
584 .addComponent(btntaotktao)
585 .addComponent(btntaotkthoat))
586 .addContainerGap(48, Short.MAX_VALUE))
587 );
588
589 jFramedoimatkhau.setSize(new java.awt.Dimension(282, 300));
590
591 jLabel20.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
592 jLabel20.setText("Đổi mật khẩu");
593
594 jLabel21.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
595 jLabel21.setText("Mật khẩu cũ:");
596
597 jLabel22.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
598 jLabel22.setText("Mật khẩu mới:");
599
600 jLabel39.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
601 jLabel39.setText("Nhập lại mật khẩu mới:");
602
603 passdmkmcu.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
604
605 passdmkmkmoi.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
606
607 passdmknhaplai.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
608
609 btndmkdoimk.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
610 btndmkdoimk.setText("Đổi mật khẩu");
611 btndmkdoimk.addActionListener(new java.awt.event.ActionListener() {
612     public void actionPerformed(java.awt.event.ActionEvent evt) {
613         btndmkdoimkActionPerformed(evt);
614     }
615 });
616
617 javax.swing.GroupLayout jFramedoimatkhauLayout = new javax.swing.GroupLayout(jFramedoimatkhau.getContentPane());
618 jFramedoimatkhau.getContentPane().setLayout(jFramedoimatkhauLayout);
619 jFramedoimatkhauLayout.setHorizontalGroup(
620     jFramedoimatkhauLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
621     .addGroup(jFramedoimatkhauLayout.createSequentialGroup()
622         .addGroup(jFramedoimatkhauLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
623             .addGroup(jFramedoimatkhauLayout.createSequentialGroup()
624                 .addGap(65, 65, 65)
625                 .addComponent(jLabel20))
626             .addGroup(jFramedoimatkhauLayout.createSequentialGroup()
627                 .addContainerGap()

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```

628         .addGroup(jFramedoimatkhaulayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
629             .addComponent(jLabel22)
630             .addComponent(jLabel39)
631             .addComponent(jLabel21))
632         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
633         .addGroup(jFramedoimatkhaulayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
634             .addComponent(btnmkmkdoimk)
635             .addGroup(jFramedoimatkhaulayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
636                 .addComponent(passdmkmkmoi, javax.swing.GroupLayout.DEFAULT_SIZE, 111, Short.MAX_VALUE)
637                 .addComponent(passdmkmkcu)
638                 .addComponent(passdmknhaplai))))
639         .addContainerGap(31, Short.MAX_VALUE)
640     );
641     jFramedoimatkhaulayout.setVerticalGroup(
642         jFramedoimatkhaulayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
643         .addGroup(jFramedoimatkhaulayout.createSequentialGroup())
644             .addContainerGap()
645             .addComponent(jLabel20, javax.swing.GroupLayout.PREFERRED_SIZE, 59, javax.swing.GroupLayout.PREFERRED_SIZE)
646             .addGap(18, 18, 18)
647             .addGroup(jFramedoimatkhaulayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
648                 .addComponent(jLabel21)
649                 .addComponent(passdmkmkcu, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
650             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
651             .addGroup(jFramedoimatkhaulayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
652                 .addComponent(jLabel22)
653                 .addComponent(passdmkmkmoi, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
654             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
655             .addGroup(jFramedoimatkhaulayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
656                 .addComponent(jLabel39)
657                 .addComponent(passdmknhaplai, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
658             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
659             .addComponent(btnmkmkdoimk)
660             .addContainerGap(96, Short.MAX_VALUE)
661     );
662
663     puhinh.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));
664
665     jFramequanlymk.setSize(new java.awt.Dimension(268, 240));
666
667     jLabel25.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
668     jLabel25.setText("QUẢN LÝ MẬT KHẨU");
669
670     jLabel40.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
671     jLabel40.setText("Tài khoản:");
672
673     jLabel41.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
674     jLabel41.setText("Mật khẩu mới:");
675
676     btnqlmkdoi.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
677     btnqlmkdoi.setText("Đổi");
678     btnqlmkdoi.addActionListener(new java.awt.event.ActionListener() {
679         public void actionPerformed(java.awt.event.ActionEvent evt) {
680             btnqlmkdoiActionPerformed(evt);
681         }
682     });
683
684     btnqlmkdong.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
685     btnqlmkdong.setText("Đóng");
686     btnqlmkdong.addActionListener(new java.awt.event.ActionListener() {
687         public void actionPerformed(java.awt.event.ActionEvent evt) {
688             btnqlmkdongActionPerformed(evt);
689         }
690     });
691
692     javax.swing.GroupLayout jFramequanlymkLayout = new javax.swing.GroupLayout(jFramequanlymk.getContentPane());
693     jFramequanlymk.getContentPane().setLayout(jFramequanlymkLayout);
694     jFramequanlymkLayout.setHorizontalGroup(
695         jFramequanlymkLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
696         .addGroup(jFramequanlymkLayout.createSequentialGroup()
697             .addContainerGap()

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698 .addGroup(jFramequanlymkLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
699 .addComponent(jLabel25)
700 .addGroup(jFramequanlymkLayout.createSequentialGroup()
701 .addGroup(jFramequanlymkLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
702 .addComponent(jLabel41)
703 .addComponent(jLabel40))
704 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
705 .addGroup(jFramequanlymkLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
706 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jFramequanlymkLayout.createSequentialGroup()
707 .addComponent(btnqlmkkdoi, javax.swing.GroupLayout.DEFAULT_SIZE, 64, Short.MAX_VALUE)
708 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
709 .addComponent(btnqlmkdong))
710 .addComponent(txtqlmkmkmoi)
711 .addComponent(cbqlmktaikhoan, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))
712 .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
713 );
714 jFramequanlymkLayout.setVerticalGroup(
715 jFramequanlymkLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
716 .addGroup(jFramequanlymkLayout.createSequentialGroup()
717 .addContainerGap()
718 .addComponent(jLabel25, javax.swing.GroupLayout.PREFERRED_SIZE, 66, javax.swing.GroupLayout.PREFERRED_SIZE)
719 .addGap(18, 18, 18)
720 .addGroup(jFramequanlymkLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
721 .addComponent(jLabel40)
722 .addComponent(cbqlmktaikhoan, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
723 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
724 .addGroup(jFramequanlymkLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
725 .addComponent(jLabel41)
726 .addComponent(txtqlmkmkmoi, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
727 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
728 .addGroup(jFramequanlymkLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
729 .addComponent(btnqlmkkdoi)
730 .addComponent(btnqlmkdong))
731 .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
732 );
733
734 jFramethongtinnhanvien.setSize(new java.awt.Dimension(425, 430));
735
736 jLabel42.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
737 jLabel42.setText("QUẢN LÝ THÔNG TIN NHÂN VIÊN");
738
739 lbqlnvhinh.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/hinhanh/noimage.png"))); // NOI18N
740 lbqlnvhinh.addMouseListener(new java.awt.event.MouseAdapter() {
741     public void mouseClicked(java.awt.event.MouseEvent evt) {
742         lbqlnvhinhMouseClicked(evt);
743     }
744 });
745
746 jLabel44.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
747 jLabel44.setText("Mã nhân viên:");
748
749 jLabel45.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
750 jLabel45.setText("Tên nhân viên:");
751
752 jLabel46.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
753 jLabel46.setText("Chức vụ:");
754
755 txtqlnvtennv.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
756
757 txtqlnvma.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
758
759 cbqlnvchucvu.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Admin", "Giáo Viên", "Đào Tạo" }));
760
761 tbqlnv.setModel(new javax.swing.table.DefaultTableModel(
762     new Object [][] {
763         {null, null, null, null},
764         {null, null, null, null},
765         {null, null, null, null},
766         {null, null, null, null}
767     },

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```

768     new String [] {
769         "Title 1", "Title 2", "Title 3", "Title 4"
770     }
771 );
772 tbqInV.addMouseListener(new java.awt.event.MouseAdapter() {
773     public void mouseClicked(java.awt.event.MouseEvent evt) {
774         tbqInVMouseClicked(evt);
775     }
776 });
777 jScrollPane3.setViewportViewView(tbqInV);
778
779 btnqInVthaydoi.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
780 btnqInVthaydoi.setText("Thay đổi");
781 btnqInVthaydoi.addActionListener(new java.awt.event.ActionListener() {
782     public void actionPerformed(java.awt.event.ActionEvent evt) {
783         btnqInVthaydoiActionPerformed(evt);
784     }
785 });
786
787 btnqInVdong.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
788 btnqInVdong.setText("Đóng");
789 btnqInVdong.addActionListener(new java.awt.event.ActionListener() {
790     public void actionPerformed(java.awt.event.ActionEvent evt) {
791         btnqInVdongActionPerformed(evt);
792     }
793 });
794
795 btnqInVxoa.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
796 btnqInVxoa.setText("Xóa");
797 btnqInVxoa.addActionListener(new java.awt.event.ActionListener() {
798     public void actionPerformed(java.awt.event.ActionEvent evt) {
799         btnqInVxoaActionPerformed(evt);
800     }
801 });
802
803 jLabel88.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
804 jLabel88.setText("Email:");
805
806 txtqInVemail.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
807
808 javax.swing.GroupLayout jFramethongtinnhanvienLayout = new javax.swing.GroupLayout(jFramethongtinnhanvien.getContentPane());
809 jFramethongtinnhanvien.getContentPane().setLayout(jFramethongtinnhanvienLayout);
810 jFramethongtinnhanvienLayout.setHorizontalGroup(
811     jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
812         .addGroup(jFramethongtinnhanvienLayout.createSequentialGroup()
813             .addContainerGap()
814             .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
815                 .addGroup(jFramethongtinnhanvienLayout.createSequentialGroup()
816                     .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
817                         .addGap(10, 10, 10)
818                         .addComponent(lbqInVhinh, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE)
819                     )
820                     .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
821                         .addGroup(jFramethongtinnhanvienLayout.createSequentialGroup()
822                             .addGap(16, 16, 16)
823                             .addComponent(jLabel44)
824                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
825                             .addComponent(txtqInVma))
826                         .addGroup(jFramethongtinnhanvienLayout.createSequentialGroup()
827                             .addGap(45, 45, 45)
828                             .addComponent(jLabel46)
829                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
830                             .addComponent(cbqInVchucvu, javax.swing.GroupLayout.PREFERRED_SIZE, 121, javax.swing.GroupLayout.PREFERRED_SIZE))
831                     )
832                     .addGap(55, 55, 55)
833                     .addComponent(jLabel88)
834                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
835                     .addComponent(txtqInVemail))
836                 .addGroup(jFramethongtinnhanvienLayout.createSequentialGroup()
837                     .addGap(12, 12, 12)

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838         .addComponent(jLabel45)
839         .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
840         .addComponent(txtqInvtennv))))
841     .addComponent(jLabel42))
842     .addGap(14, 14, 14))
843     .addComponent(jScrollPane3, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 0, Short.MAX_VALUE))
844     .addContainerGap())
845     .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jFramethongtinnhanvienLayout.createSequentialGroup())
846     .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
847     .addComponent(btnqInvxoa, javax.swing.GroupLayout.PREFERRED_SIZE, 67, javax.swing.GroupLayout.PREFERRED_SIZE)
848     .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
849     .addComponent(btnqInvtaydoi)
850     .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
851     .addComponent(btnqInvdong, javax.swing.GroupLayout.PREFERRED_SIZE, 76, javax.swing.GroupLayout.PREFERRED_SIZE)
852     .addGap(45, 45, 45))
853 );
854 jFramethongtinnhanvienLayout.setVerticalGroup(
855     jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
856     .addGroup(jFramethongtinnhanvienLayout.createSequentialGroup())
857     .addContainerGap()
858     .addComponent(jLabel42)
859     .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
860     .addGroup(jFramethongtinnhanvienLayout.createSequentialGroup())
861     .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
862     .addComponent(lbqInvhinh))
863     .addGroup(jFramethongtinnhanvienLayout.createSequentialGroup())
864     .addGap(32, 32, 32)
865     .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
866     .addComponent(jLabel44)
867     .addComponent(txtqInvma, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
868     .addGap(13, 13, 13)
869     .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
870     .addComponent(jLabel45)
871     .addComponent(txtqInvtennv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
872     .addPreferredGap(javax.swing.GroupLayout.Alignment.UNRELATED)
873     .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
874     .addComponent(jLabel46)
875     .addComponent(cbqInvhucvu, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
876     .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
877     .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
878     .addComponent(jLabel88)
879     .addComponent(txtqInvemai, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))))
880     .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
881     .addGroup(jFramethongtinnhanvienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
882     .addComponent(btnqInvtaydoi)
883     .addComponent(btnqInvdong)
884     .addComponent(btnqInvxoa))
885     .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
886     .addComponent(jScrollPane3, javax.swing.GroupLayout.PREFERRED_SIZE, 166, javax.swing.GroupLayout.PREFERRED_SIZE)
887     .addContainerGap(33, Short.MAX_VALUE))
888 );
889
890 jFramegvtimkiem.setSize(new java.awt.Dimension(350, 350));
891
892 jLabel43.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
893 jLabel43.setText("TÌM KIẾM ĐIỂM SINH VIÊN");
894
895 jLabel47.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
896 jLabel47.setText("Mã Sinh Viên:");
897
898 jLabel48.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
899 jLabel48.setText("Tên Sinh Viên:");
900
901 jLabel49.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
902 jLabel49.setText("Lớp Sinh Viên:");
903
904 jLabel50.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
905 jLabel50.setText("Năm Học:");
906
907 jLabel51.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N

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908 jLabel51.setText("Điểm trung bình:");
909
910 cbgvtkphptoan.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Lớn hơn", "Nhỏ hơn", "Bằng" }));
911
912 txtgvtkmasv.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
913
914 txtgvtktensv.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
915
916 txtgvtklopsv.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
917
918 txtgvtkdiemsv.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
919
920 btngvtktim.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
921 btngvtktim.setText("Tim");
922 btngvtktim.addActionListener(new java.awt.event.ActionListener() {
923     public void actionPerformed(java.awt.event.ActionEvent evt) {
924         btngvtktimActionPerformed(evt);
925     }
926 });
927
928 btngvtkdong.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
929 btngvtkdong.setText("Đóng");
930 btngvtkdong.addActionListener(new java.awt.event.ActionListener() {
931     public void actionPerformed(java.awt.event.ActionEvent evt) {
932         btngvtkdongActionPerformed(evt);
933     }
934 });
935
936 javax.swing.GroupLayout jFramegvtimkiemLayout = new javax.swing.GroupLayout(jFramegvtimkiem.getContentPane());
937 jFramegvtimkiem.getContentPane().setLayout(jFramegvtimkiemLayout);
938 jFramegvtimkiemLayout.setHorizontalGroup(
939     jFramegvtimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
940         .addGroup(jFramegvtimkiemLayout.createSequentialGroup()
941             .addGroup(jFramegvtimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
942                 .addGroup(jFramegvtimkiemLayout.createSequentialGroup()
943                     .addContainerGap()
944                     .addComponent(jLabel43))
945                 .addGroup(jFramegvtimkiemLayout.createSequentialGroup()
946                     .addGap(37, 37, 37)
947                     .addGroup(jFramegvtimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
948                         .addComponent(jLabel49)
949                         .addGroup(jFramegvtimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
950                             .addComponent(jLabel48)
951                             .addComponent(jLabel47, javax.swing.GroupLayout.Alignment.TRAILING))
952                         .addComponent(jLabel50)
953                         .addComponent(jLabel51))
954                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
955                     .addGroup(jFramegvtimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
956                         .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jFramegvtimkiemLayout.createSequentialGroup()
957                             .addComponent(btngvtktim, javax.swing.GroupLayout.PREFERRED_SIZE, 65, javax.swing.GroupLayout.PREFERRED_SIZE)
958                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
959                             .addComponent(btngvtkdong))
960                         .addComponent(txtgvtkmasv, javax.swing.GroupLayout.PREFERRED_SIZE, 152, javax.swing.GroupLayout.PREFERRED_SIZE)
961                         .addComponent(txtgvtktensv, javax.swing.GroupLayout.PREFERRED_SIZE, 152, javax.swing.GroupLayout.PREFERRED_SIZE)
962                         .addComponent(txtgvtklopsv, javax.swing.GroupLayout.PREFERRED_SIZE, 152, javax.swing.GroupLayout.PREFERRED_SIZE)
963                         .addComponent(cbgvtknam, javax.swing.GroupLayout.PREFERRED_SIZE, 94, javax.swing.GroupLayout.PREFERRED_SIZE)
964                         .addGroup(jFramegvtimkiemLayout.createSequentialGroup()
965                             .addComponent(cbgvtkphptoan, javax.swing.GroupLayout.PREFERRED_SIZE, 94, javax.swing.GroupLayout.PREFERRED_SIZE)
966                             .addGap(10, 10, 10)
967                             .addComponent(txtgvtkdiemsv))))
968                 .addContainerGap(20, Short.MAX_VALUE))
969     );
970 jFramegvtimkiemLayout.setVerticalGroup(
971     jFramegvtimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
972         .addGroup(jFramegvtimkiemLayout.createSequentialGroup()
973             .addContainerGap()
974             .addComponent(jLabel43)
975             .addGap(18, 18, 18)
976             .addGroup(jFramegvtimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
977                 .addComponent(jLabel47)

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978         .addComponent(txtgvtkmasv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
979     .addGap(18, 18, 18)
980     .addGroup(jFramegvtktimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
981         .addComponent(jLabel48)
982         .addComponent(txtgvtktensv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
983     .addGap(18, 18, 18)
984     .addGroup(jFramegvtktimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
985         .addComponent(jLabel49)
986         .addComponent(txtgvtklopsv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
987     .addGap(18, 18, 18)
988     .addGroup(jFramegvtktimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
989         .addComponent(jLabel50)
990         .addComponent(cbgvtknam, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
991     .addGap(18, 18, 18)
992     .addGroup(jFramegvtktimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
993         .addComponent(jLabel51)
994         .addComponent(cbgvtkpheptuan, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
995     .addComponent(txtgvtkdiemsv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
996     .addGap(18, 18, 18)
997     .addGroup(jFramegvtktimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
998         .addComponent(btngvktim)
999         .addComponent(btngvtkdong))
1000     .addContainerGap(60, Short.MAX_VALUE))
1001 );
1002
1003 jFramedttimkiem.setSize(new java.awt.Dimension(355, 420));
1004
1005 jLabel52.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1006 jLabel52.setText("Mã Sinh Viên:");
1007
1008 txtdtkmasv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1009
1010 jLabel53.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1011 jLabel53.setText("Tên Sinh Viên:");
1012
1013 txtdtktensv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1014
1015 jLabel54.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1016 jLabel54.setText("Giới tính:");
1017
1018 rbdtknam.setText("Nam");
1019
1020 rbdtknu.setText("Nữ");
1021
1022 jLabel55.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1023 jLabel55.setText("Ngày sinh:");
1024
1025 txtdtkngaysinh.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1026
1027 jLabel56.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1028 jLabel56.setText("CMND:");
1029
1030 txtdtkcmnd.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1031
1032 jLabel57.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1033 jLabel57.setText("Ngày nhập học:");
1034
1035 txtdtkdiachi.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1036
1037 jLabel58.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1038 jLabel58.setText("Địa chỉ:");
1039
1040 jLabel59.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1041 jLabel59.setText("Email:");
1042
1043 txtdtkemail.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1044
1045 jLabel60.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
1046 jLabel60.setText("TÌM KIẾM SINH VIÊN");
1047

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1048 btndttktim.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1049 btndttktim.setText("Tim");
1050 btndttktim.addActionListener(new java.awt.event.ActionListener() {
1051     public void actionPerformed(java.awt.event.ActionEvent evt) {
1052         btndttktimActionPerformed(evt);
1053     }
1054 });
1055
1056 btndttkdong.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1057 btndttkdong.setText("Đông");
1058 btndttkdong.addActionListener(new java.awt.event.ActionListener() {
1059     public void actionPerformed(java.awt.event.ActionEvent evt) {
1060         btndttkdongActionPerformed(evt);
1061     }
1062 });
1063
1064 txtdttkthangsinh.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1065
1066 txtdttknamsinh.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1067
1068 jLabel61.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
1069 jLabel61.setText("");
1070
1071 jLabel62.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
1072 jLabel62.setText("");
1073
1074 txtdttknamnhaphoc.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1075
1076 jLabel63.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
1077 jLabel63.setText("");
1078
1079 txtdttkthangnhaphoc.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1080
1081 jLabel64.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
1082 jLabel64.setText("");
1083
1084 txtdttkngaynhaphoc.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1085
1086 rbdttkcahai.setText("Cá hai");
1087
1088 javax.swing.GroupLayout jFramedttimkiemLayout = new javax.swing.GroupLayout(jFramedttimkiem.getContentPane());
1089 jFramedttimkiem.getContentPane().setLayout(jFramedttimkiemLayout);
1090 jFramedttimkiemLayout.setHorizontalGroup(
1091     jFramedttimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1092     .addGroup(jFramedttimkiemLayout.createSequentialGroup()
1093         .addGroup(jFramedttimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1094             .addGroup(jFramedttimkiemLayout.createSequentialGroup()
1095                 .addGap(45, 45, 45)
1096                 .addComponent(jLabel60))
1097             .addGroup(jFramedttimkiemLayout.createSequentialGroup()
1098                 .addGap(23, 23, 23)
1099                 .addGroup(jFramedttimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1100                     .addComponent(jLabel52, javax.swing.GroupLayout.PREFERRED_SIZE, 80, javax.swing.GroupLayout.PREFERRED_SIZE)
1101                     .addComponent(jLabel53)
1102                     .addComponent(jLabel54)
1103                     .addComponent(jLabel55)
1104                     .addComponent(jLabel56)
1105                     .addComponent(jLabel59)
1106                     .addComponent(jLabel58)
1107                     .addComponent(jLabel57))
1108                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1109                 .addGroup(jFramedttimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
1110                     .addGroup(jFramedttimkiemLayout.createSequentialGroup()
1111                         .addGap(28, 28, 28)
1112                         .addComponent(btndttktim, javax.swing.GroupLayout.PREFERRED_SIZE, 68, javax.swing.GroupLayout.PREFERRED_SIZE)
1113                         .addGap(18, 18, 18)
1114                         .addComponent(btndttkdong))
1115                     .addComponent(txtdttkemail)
1116                     .addComponent(txtdttkdiachi)
1117                     .addComponent(txtdttkcmnd))

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```

1118 .addComponent(txtDtkTensv)
1119 .addComponent(txtDtkMasv)
1120 .addGroup(jFramedtTimkiemLayout.createSequentialGroup())
1121 .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1122     .addComponent(txtDtkNgaySinh, javax.swing.GroupLayout.PREFERRED_SIZE, 47, javax.swing.GroupLayout.PREFERRED_SIZE)
1123     .addComponent(rbdtkNam, javax.swing.GroupLayout.Alignment.TRAILING))
1124 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1125 .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1126     .addGroup(jFramedtTimkiemLayout.createSequentialGroup()
1127         .addComponent(rbdtkNu)
1128         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1129         .addComponent(rbdtkCahai)
1130         .addGap(0, 0, Short.MAX_VALUE))
1131     .addGroup(jFramedtTimkiemLayout.createSequentialGroup()
1132         .addComponent(jLabel61, javax.swing.GroupLayout.PREFERRED_SIZE, 12, javax.swing.GroupLayout.PREFERRED_SIZE)
1133         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1134         .addComponent(txtDtkThangSinh, javax.swing.GroupLayout.PREFERRED_SIZE, 50, javax.swing.GroupLayout.PREFERRED_SIZE)
1135         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1136         .addComponent(jLabel62, javax.swing.GroupLayout.PREFERRED_SIZE, 12, javax.swing.GroupLayout.PREFERRED_SIZE)
1137         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1138         .addComponent(txtDtkNamSinh)))
1139 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jFramedtTimkiemLayout.createSequentialGroup()
1140     .addComponent(txtDtkNgayNhapHoc, javax.swing.GroupLayout.DEFAULT_SIZE, 42, Short.MAX_VALUE)
1141     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1142     .addComponent(jLabel64, javax.swing.GroupLayout.PREFERRED_SIZE, 12, javax.swing.GroupLayout.PREFERRED_SIZE)
1143     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1144     .addComponent(txtDtkThangNhapHoc, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
1145     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1146     .addComponent(jLabel63, javax.swing.GroupLayout.PREFERRED_SIZE, 12, javax.swing.GroupLayout.PREFERRED_SIZE)
1147     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
1148     .addComponent(txtDtkNamNhapHoc, javax.swing.GroupLayout.PREFERRED_SIZE, 74, javax.swing.GroupLayout.PREFERRED_SIZE))))
1149 .addGap(0, 23, Short.MAX_VALUE))
1150 ):
1151 jFramedtTimkiemLayout.setVerticalGroup(
1152     jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1153     .addGroup(jFramedtTimkiemLayout.createSequentialGroup()
1154         .addContainerGap()
1155         .addComponent(jLabel60, javax.swing.GroupLayout.PREFERRED_SIZE, 43, javax.swing.GroupLayout.PREFERRED_SIZE)
1156         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1157         .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1158             .addComponent(jLabel52, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1159             .addComponent(txtDtkMasv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1160         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1161         .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1162             .addComponent(jLabel53, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1163             .addComponent(txtDtkTensv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1164         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
1165         .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1166             .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1167                 .addComponent(jLabel54, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1168                 .addComponent(rbdtkNu)
1169                 .addComponent(rbdtkCahai))
1170             .addComponent(rbdtkNam))
1171         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1172         .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1173             .addComponent(jLabel55, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1174             .addComponent(txtDtkNgaySinh, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1175             .addComponent(txtDtkThangSinh, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1176             .addComponent(txtDtkNamSinh, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1177             .addComponent(jLabel61, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1178             .addComponent(jLabel62, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1179         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1180         .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1181             .addComponent(jLabel56, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1182             .addComponent(txtDtkMnd, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1183         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1184         .addGroup(jFramedtTimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1185             .addComponent(jLabel59, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1186             .addComponent(txtDtkEmail, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1187         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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1188 .addGroup(jFramedittimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1189 .addComponent(jLabel58, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1190 .addComponent(txttdtkdiachi, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1191 .addGap(11, 11, 11)
1192 .addGroup(jFramedittimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1193 .addGroup(jFramedittimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1194 .addComponent(txtdtkingaynhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1195 .addComponent(txtdtktangnhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1196 .addComponent(txtdttknamnhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1197 .addComponent(jLabel64, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1198 .addComponent(jLabel63, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1199 .addComponent(jLabel57, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE))
1200 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1201 .addGroup(jFramedittimkiemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1202 .addComponent(btndttktim)
1203 .addComponent(btndttkdong))
1204 .addGap(25, 25, 25))
1205 );
1206
1207 jFrameguimailgv1sv.setSize(new java.awt.Dimension(400, 300));
1208
1209 jLabel65.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1210 jLabel65.setText("Tài khoản gmail:");
1211
1212 jLabel66.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1213 jLabel66.setText("Mật khẩu:");
1214
1215 txtgmgv1svtaikhoan.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
1216
1217 btngmgv1svgui.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1218 btngmgv1svgui.setText("Gửi");
1219 btngmgv1svgui.addActionListener(new java.awt.event.ActionListener() {
1220     public void actionPerformed(java.awt.event.ActionEvent evt) {
1221         btngmgv1svguiActionPerformed(evt);
1222     }
1223 });
1224
1225 btngmgv1svdong.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1226 btngmgv1svdong.setText("Đồng");
1227 btngmgv1svdong.addActionListener(new java.awt.event.ActionListener() {
1228     public void actionPerformed(java.awt.event.ActionEvent evt) {
1229         btngmgv1svdongActionPerformed(evt);
1230     }
1231 });
1232
1233 txtgmgv1svghichu.setColumns(20);
1234 txtgmgv1svghichu.setRows(5);
1235 jScrollPane4.setViewportView(txtgmgv1svghichu);
1236
1237 jLabel67.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1238 jLabel67.setText("Ghi chú:");
1239
1240 javax.swing.GroupLayout jFrameguimailgv1svLayout = new javax.swing.GroupLayout(jFrameguimailgv1sv.getContentPane());
1241 jFrameguimailgv1sv.getContentPane().setLayout(jFrameguimailgv1svLayout);
1242 jFrameguimailgv1svLayout.setHorizontalGroup(
1243     jFrameguimailgv1svLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1244     .addGroup(jFrameguimailgv1svLayout.createSequentialGroup()
1245     .addGap(21, 21, 21)
1246     .addGroup(jFrameguimailgv1svLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1247     .addComponent(jLabel66)
1248     .addComponent(jLabel65)
1249     .addComponent(jLabel67))
1250     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED))
1251     .addGroup(jFrameguimailgv1svLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
1252     .addGroup(jFrameguimailgv1svLayout.createSequentialGroup()
1253     .addComponent(btngmgv1svgui, javax.swing.GroupLayout.PREFERRED_SIZE, 70, javax.swing.GroupLayout.PREFERRED_SIZE)
1254     .addGap(44, 44, 44)
1255     .addComponent(btngmgv1svdong, javax.swing.GroupLayout.PREFERRED_SIZE, 69, javax.swing.GroupLayout.PREFERRED_SIZE))
1256     .addComponent(jScrollPane4, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, 215, Short.MAX_VALUE)
1257     .addComponent(txtgmgv1svtaikhoan)

```

```

1258         .addComponent(txtmgv1svmatkhau))
1259     .addContainerGap(19, Short.MAX_VALUE))
1260 );
1261 jFrameguimailgv1svLayout.setVerticalGroup(
1262     jFrameguimailgv1svLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1263     .addGroup(jFrameguimailgv1svLayout.createSequentialGroup()
1264         .addContainerGap()
1265         .addGroup(jFrameguimailgv1svLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1266             .addComponent(jLabel65)
1267             .addComponent(txtmgv1svtaikhoan, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1268         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1269         .addGroup(jFrameguimailgv1svLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1270             .addComponent(jLabel66)
1271             .addComponent(txtmgv1svmatkhau, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1272         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1273         .addGroup(jFrameguimailgv1svLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1274             .addComponent(jLabel67)
1275             .addComponent(jScrollPane4, javax.swing.GroupLayout.PREFERRED_SIZE, 113, javax.swing.GroupLayout.PREFERRED_SIZE))
1276         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1277         .addGroup(jFrameguimailgv1svLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1278             .addComponent(btnmgv1svgui)
1279             .addComponent(btnmgv1svdong))
1280         .addContainerGap(85, Short.MAX_VALUE))
1281 );
1282
1283 jFrameguimailgvnhieusv.setSize(new java.awt.Dimension(400, 300));
1284
1285 jLabel68.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1286 jLabel68.setText("Tài khoản gmail:");
1287
1288 jLabel69.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1289 jLabel69.setText("Mật khẩu:");
1290
1291 txtmgvnhieusvtaikhoan.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
1292
1293 btnmgvnhieusvgui.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1294 btnmgvnhieusvgui.setText("Gửi");
1295 btnmgvnhieusvgui.addActionListener(new java.awt.event.ActionListener() {
1296     public void actionPerformed(java.awt.event.ActionEvent evt) {
1297         btnmgvnhieusvguiActionPerformed(evt);
1298     }
1299 });
1300
1301 btnmgvnhieusvdong.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1302 btnmgvnhieusvdong.setText("Đồng");
1303 btnmgvnhieusvdong.addActionListener(new java.awt.event.ActionListener() {
1304     public void actionPerformed(java.awt.event.ActionEvent evt) {
1305         btnmgvnhieusvdongActionPerformed(evt);
1306     }
1307 });
1308
1309 txtmgvnhieusvghichu.setColumns(20);
1310 txtmgvnhieusvghichu.setRows(5);
1311 jScrollPane5.setViewportView(txtmgvnhieusvghichu);
1312
1313 jLabel70.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1314 jLabel70.setText("Ghi chú:");
1315
1316 javax.swing.GroupLayout jFrameguimailgvnhieusvLayout = new javax.swing.GroupLayout(jFrameguimailgvnhieusv.getContentPane());
1317 jFrameguimailgvnhieusv.getContentPane().setLayout(jFrameguimailgvnhieusvLayout);
1318 jFrameguimailgvnhieusvLayout.setHorizontalGroup(
1319     jFrameguimailgvnhieusvLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1320     .addGroup(jFrameguimailgvnhieusvLayout.createSequentialGroup()
1321         .addGap(21, 21, 21)
1322         .addGroup(jFrameguimailgvnhieusvLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1323             .addComponent(jLabel69)
1324             .addComponent(jLabel68)
1325             .addComponent(jLabel70))
1326         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
1327         .addGroup(jFrameguimailgvnhieusvLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

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1328     .addGroup(jFrameguimailgvnhieusvLayout.createSequentialGroup())
1329     .addComponent(btngmgvnhieusvgui, javax.swing.GroupLayout.PREFERRED_SIZE, 70, javax.swing.GroupLayout.PREFERRED_SIZE)
1330     .addGap(44, 44, 44)
1331     .addComponent(btngmgvnhieusvdong, javax.swing.GroupLayout.PREFERRED_SIZE, 69, javax.swing.GroupLayout.PREFERRED_SIZE))
1332     .addComponent(jScrollPane5, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, 215, Short.MAX_VALUE)
1333     .addComponent(txtmgvnhieusvtaikhoan)
1334     .addComponent(txtmgvnhieusvmatkhau))
1335     .addContainerGap(19, Short.MAX_VALUE))
1336 );
1337 jFrameguimailgvnhieusvLayout.setVerticalGroup(
1338     jFrameguimailgvnhieusvLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1339     .addGroup(jFrameguimailgvnhieusvLayout.createSequentialGroup())
1340     .addContainerGap()
1341     .addGroup(jFrameguimailgvnhieusvLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1342     .addComponent(jLabel68)
1343     .addComponent(txtmgvnhieusvtaikhoan, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1344     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1345     .addGroup(jFrameguimailgvnhieusvLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1346     .addComponent(jLabel69)
1347     .addComponent(txtmgvnhieusvmatkhau, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1348     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1349     .addGroup(jFrameguimailgvnhieusvLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1350     .addComponent(jLabel70)
1351     .addComponent(jScrollPane5, javax.swing.GroupLayout.PREFERRED_SIZE, 113, javax.swing.GroupLayout.PREFERRED_SIZE))
1352     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1353     .addGroup(jFrameguimailgvnhieusvLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1354     .addComponent(btngmgvnhieusvgui)
1355     .addComponent(btngmgvnhieusvdong))
1356     .addContainerGap(85, Short.MAX_VALUE))
1357 );
1358
1359 jFrameguimaildt.setSize(new java.awt.Dimension(560, 550));
1360
1361 jLabel71.setFont(new java.awt.Font("Times New Roman", 1, 36)); // NOI18N
1362 jLabel71.setText("Gửi Mail");
1363
1364 jPanel3.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Tài khoản Email", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP, new java.awt.Font("Tahoma", 1, 14))); // NOI18N
1365
1366 jLabel72.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1367 jLabel72.setText("Tài khoản:");
1368
1369 jLabel73.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1370 jLabel73.setText("Mật khẩu:");
1371
1372 javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
1373 jPanel3.setLayout(jPanel3Layout);
1374 jPanel3Layout.setHorizontalGroup(
1375     jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1376     .addGroup(jPanel3Layout.createSequentialGroup()
1377         .addGap(50, 50, 50)
1378         .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1379             .addComponent(jLabel73)
1380             .addComponent(jLabel72))
1381         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1382         .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
1383             .addComponent(txtgmdtk, javax.swing.GroupLayout.DEFAULT_SIZE, 197, Short.MAX_VALUE)
1384             .addComponent(txtgmdtmk))
1385         .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1386 );
1387 jPanel3Layout.setVerticalGroup(
1388     jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1389     .addGroup(jPanel3Layout.createSequentialGroup()
1390         .addContainerGap()
1391         .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1392             .addComponent(jLabel72, javax.swing.GroupLayout.PREFERRED_SIZE, 19, javax.swing.GroupLayout.PREFERRED_SIZE)
1393             .addComponent(txtgmdtk, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1394         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
1395         .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1396             .addComponent(jLabel73, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1397             .addComponent(txtgmdtmk, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

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1398     .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1399 );
1400
1401 jPanel6.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Nội dung", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP, new java.awt.Font("Tahoma", 1, 14))); // NOI18N
1402
1403 jLabel75.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1404 jLabel75.setText("Tiêu đề:");
1405
1406 jLabel76.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1407 jLabel76.setText("Nội dung:");
1408
1409 txtgmdtnoidung.setColumns(20);
1410 txtgmdtnoidung.setRows(5);
1411 jScrollPane6.setViewportView(txtgmdtnoidung);
1412
1413 rbgmdtcc.setSelected(true);
1414 rbgmdtcc.setText("CC");
1415
1416 rbgmdtbcc.setText("BCC");
1417
1418 btngmdtfiledinhkem.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1419 btngmdtfiledinhkem.setText("Chọn file đính kèm");
1420 btngmdtfiledinhkem.addActionListener(new java.awt.event.ActionListener() {
1421     public void actionPerformed(java.awt.event.ActionEvent evt) {
1422         btngmdtfiledinhkemActionPerformed(evt);
1423     }
1424 });
1425
1426 lbgmdtfiledinhkem.setFont(new java.awt.Font("Times New Roman", 0, 12)); // NOI18N
1427
1428 javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
1429 jPanel6.setLayout(jPanel6Layout);
1430 jPanel6Layout.setHorizontalGroup(
1431     jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1432     .addGroup(jPanel6Layout.createSequentialGroup()
1433         .addGap(49, 49, 49)
1434         .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1435             .addComponent(jLabel76)
1436             .addComponent(jLabel75))
1437         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1438         .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
1439             .addGroup(jPanel6Layout.createSequentialGroup()
1440                 .addComponent(rbgmdtcc)
1441                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
1442                 .addComponent(rbgmdtbcc)
1443                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1444                 .addComponent(btngmdtfiledinhkem)
1445                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1446                 .addComponent(lbgmdtfiledinhkem, javax.swing.GroupLayout.DEFAULT_SIZE, 148, Short.MAX_VALUE))
1447             .addComponent(jScrollPane6)
1448             .addComponent(txtgmdttieude))
1449         .addContainerGap(43, Short.MAX_VALUE))
1450 );
1451 jPanel6Layout.setVerticalGroup(
1452     jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1453     .addGroup(jPanel6Layout.createSequentialGroup()
1454         .addGap(6, 6, 6)
1455         .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1456             .addComponent(lbgmdtfiledinhkem, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1457             .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1458                 .addComponent(rbgmdtcc)
1459                 .addComponent(rbgmdtbcc)
1460                 .addComponent(btngmdtfiledinhkem)))
1461         .addGap(6, 6, 6)
1462         .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1463             .addComponent(jLabel75, javax.swing.GroupLayout.PREFERRED_SIZE, 19, javax.swing.GroupLayout.PREFERRED_SIZE)
1464             .addComponent(txtgmdttieude, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1465         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1466         .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1467             .addComponent(jLabel76, javax.swing.GroupLayout.PREFERRED_SIZE, 19, javax.swing.GroupLayout.PREFERRED_SIZE)

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1468         .addComponent(jScrollPane6, javax.swing.GroupLayout.PREFERRED_SIZE, 148, javax.swing.GroupLayout.PREFERRED_SIZE))
1469     .addGap(19, 19, 19))
1470 );
1471
1472 btngmdtgui.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1473 btngmdtgui.setText("Gửi");
1474 btngmdtgui.addActionListener(new java.awt.event.ActionListener() {
1475     public void actionPerformed(java.awt.event.ActionEvent evt) {
1476         btngmdtguiActionPerformed(evt);
1477     }
1478 });
1479
1480 btngmdtdong.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1481 btngmdtdong.setText("Đồng");
1482
1483 javax.swing.GroupLayout jFrameguimaildtLayout = new javax.swing.GroupLayout(jFrameguimaildt.getContentPane());
1484 jFrameguimaildt.getContentPane().setLayout(jFrameguimaildtLayout);
1485 jFrameguimaildtLayout.setHorizontalGroup(
1486     jFrameguimaildtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1487         .addGroup(jFrameguimaildtLayout.createSequentialGroup()
1488             .addGroup(jFrameguimaildtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1489                 .addGroup(jFrameguimaildtLayout.createSequentialGroup()
1490                     .addContainerGap()
1491                     .addGroup(jFrameguimaildtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1492                         .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1493                         .addComponent(jPanel6, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
1494                     .addGroup(jFrameguimaildtLayout.createSequentialGroup()
1495                         .addContainerGap()
1496                         .addComponent(btngmdtgui, javax.swing.GroupLayout.PREFERRED_SIZE, 74, javax.swing.GroupLayout.PREFERRED_SIZE)
1497                         .addGap(18, 18, 18)
1498                         .addComponent(btngmdtdong, javax.swing.GroupLayout.PREFERRED_SIZE, 74, javax.swing.GroupLayout.PREFERRED_SIZE)
1499                         .addGap(0, 0, Short.MAX_VALUE)))
1500                     .addContainerGap())
1501             .addGroup(jFrameguimaildtLayout.createSequentialGroup()
1502                 .addContainerGap(204, 204, 204)
1503                 .addComponent(jLabel171)
1504                 .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1505             );
1506     jFrameguimaildtLayout.setVerticalGroup(
1507         jFrameguimaildtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1508             .addGroup(jFrameguimaildtLayout.createSequentialGroup()
1509                 .addContainerGap(17, 17, 17)
1510                 .addComponent(jLabel171)
1511                 .addPreferredGap(javax.swing.GroupLayout.Alignment.UNRELATED)
1512                 .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1513                 .addPreferredGap(javax.swing.GroupLayout.Alignment.UNRELATED)
1514                 .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1515                 .addPreferredGap(javax.swing.GroupLayout.Alignment.RELATED)
1516                 .addGroup(jFrameguimaildtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1517                     .addComponent(btngmdtgui)
1518                     .addComponent(btngmdtdong))
1519                 .addContainerGap(26, Short.MAX_VALUE))
1520             );
1521
1522 jFrameguimailall.setSize(new java.awt.Dimension(500, 550));
1523
1524 jLabel80.setFont(new java.awt.Font("Times New Roman", 1, 36)); // NOI18N
1525 jLabel80.setText("Gửi Thư");
1526
1527 jPanel7.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Tài khoản Email", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP, new java.awt.Font("Tahoma", 1, 14))); // NOI18N
1528
1529 jLabel81.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1530 jLabel81.setText("Tài khoản:");
1531
1532 jLabel82.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1533 jLabel82.setText("Mật khẩu:");
1534
1535 javax.swing.GroupLayout jPanel7Layout = new javax.swing.GroupLayout(jPanel7);
1536 jPanel7.setLayout(jPanel7Layout);
1537 jPanel7Layout.setHorizontalGroup(

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```

1538 jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1539 .addGroup(jPanel7Layout.createSequentialGroup())
1540 .addGap(50, 50, 50)
1541 .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1542     .addComponent(jLabel82)
1543     .addComponent(jLabel81))
1544 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1545 .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
1546     .addComponent(txttk)
1547     .addComponent(txtmk, javax.swing.GroupLayout.DEFAULT_SIZE, 153, Short.MAX_VALUE))
1548 .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1549 );
1550 jPanel7Layout.setVerticalGroup(
1551     jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1552     .addGroup(jPanel7Layout.createSequentialGroup())
1553     .addContainerGap()
1554     .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1555         .addComponent(jLabel81, javax.swing.GroupLayout.PREFERRED_SIZE, 19, javax.swing.GroupLayout.PREFERRED_SIZE)
1556         .addComponent(txttk, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1557     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
1558     .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1559         .addComponent(jLabel82, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
1560         .addComponent(txtmk, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1561     .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1562 );
1563
1564 jPanel9.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Nội dung", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP, new java.awt.Font("Tahoma", 1, 14))); // NOI18N
1565
1566 jLabel83.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1567 jLabel83.setText("Gửi đến:");
1568
1569 jLabel84.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1570 jLabel84.setText("Tiêu đề:");
1571
1572 txtguiden.setToolTipText("<html>Các mail cách nhau bằng dấu \",\"</html>");
1573
1574 jLabel85.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1575 jLabel85.setText("Nội dung:");
1576
1577 txtnoidung.setColumns(20);
1578 txtnoidung.setRows(5);
1579 jScrollPane7.setViewportView(txtnoidung);
1580
1581 rbcc.setSelected(true);
1582 rbcc.setText("CC");
1583
1584 rbbcc.setText("BCC");
1585
1586 btnguifile.setText("Gửi kèm file");
1587 btnguifile.addActionListener(new java.awt.event.ActionListener() {
1588     public void actionPerformed(java.awt.event.ActionEvent evt) {
1589         btnguifileActionPerformed(evt);
1590     }
1591 });
1592
1593 javax.swing.GroupLayout jPanel9Layout = new javax.swing.GroupLayout(jPanel9);
1594 jPanel9.setLayout(jPanel9Layout);
1595 jPanel9Layout.setHorizontalGroup(
1596     jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1597     .addGroup(jPanel9Layout.createSequentialGroup()
1598         .addGap(49, 49, 49)
1599         .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1600             .addComponent(jLabel85)
1601             .addComponent(jLabel84)
1602             .addComponent(jLabel83))
1603     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1604     .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1605         .addComponent(jScrollPane7, javax.swing.GroupLayout.DEFAULT_SIZE, 339, Short.MAX_VALUE)
1606         .addGroup(jPanel9Layout.createSequentialGroup()
1607             .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

```



```

1608         .addComponent(txtguiden, javax.swing.GroupLayout.DEFAULT_SIZE, 169, Short.MAX_VALUE)
1609         .addComponent(txttieude))
1610     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.UNRELATED)
1611     .addComponent(rbcc)
1612     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
1613     .addComponent(rbbcc)
1614     .addGap(0, 0, Short.MAX_VALUE))
1615     .addGroup(jPanel9Layout.createSequentialGroup())
1616     .addComponent(btnguifile)
1617     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
1618     .addComponent(lbtlenfile, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
1619     .addContainerGap())
1620 );
1621 jPanel9Layout.setVerticalGroup(
1622     jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1623     .addGroup(jPanel9Layout.createSequentialGroup())
1624     .addContainerGap()
1625     .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1626     .addComponent(jLabel183, javax.swing.GroupLayout.PREFERRED_SIZE, 19, javax.swing.GroupLayout.PREFERRED_SIZE)
1627     .addComponent(txtguiden, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1628     .addComponent(rbcc)
1629     .addComponent(rbbcc))
1630     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
1631     .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1632     .addComponent(jLabel184, javax.swing.GroupLayout.PREFERRED_SIZE, 19, javax.swing.GroupLayout.PREFERRED_SIZE)
1633     .addComponent(txttieude, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1634     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
1635     .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1636     .addGroup(jPanel9Layout.createSequentialGroup())
1637     .addComponent(jLabel185, javax.swing.GroupLayout.PREFERRED_SIZE, 19, javax.swing.GroupLayout.PREFERRED_SIZE)
1638     .addGap(0, 0, Short.MAX_VALUE))
1639     .addComponent(jScrollPane7, javax.swing.GroupLayout.DEFAULT_SIZE, 129, Short.MAX_VALUE))
1640     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
1641     .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
1642     .addComponent(btnguifile, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1643     .addComponent(lbtlenfile, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1644     .addContainerGap())
1645 );
1646
1647 btngui.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1648 btngui.setText("Gửi");
1649 btngui.addActionListener(new java.awt.event.ActionListener() {
1650     public void actionPerformed(java.awt.event.ActionEvent evt) {
1651         btnguiActionPerformed(evt);
1652     }
1653 });
1654
1655 btnresetguimail.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1656 btnresetguimail.setText("Reset");
1657 btnresetguimail.addActionListener(new java.awt.event.ActionListener() {
1658     public void actionPerformed(java.awt.event.ActionEvent evt) {
1659         btnresetguimailActionPerformed(evt);
1660     }
1661 });
1662
1663 btngmdong.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1664 btngmdong.setText("Đồng");
1665 btngmdong.addActionListener(new java.awt.event.ActionListener() {
1666     public void actionPerformed(java.awt.event.ActionEvent evt) {
1667         btngmdongActionPerformed(evt);
1668     }
1669 });
1670
1671 javax.swing.GroupLayout jFrameguimailallLayout = new javax.swing.GroupLayout(jFrameguimailall.getContentPane());
1672 jFrameguimailall.getContentPane().setLayout(jFrameguimailallLayout);
1673 jFrameguimailallLayout.setHorizontalGroup(
1674     jFrameguimailallLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1675     .addGroup(jFrameguimailallLayout.createSequentialGroup()
1676     .addContainerGap()
1677     .addComponent(jPanel9, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

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1678     .addContainerGap()
1679     .addGroup(jFrameguimailallLayout.createSequentialGroup())
1680     .addGap(167, 167, 167)
1681     .addComponent(jLabel80)
1682     .addGap(0, 0, Short.MAX_VALUE))
1683     .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jFrameguimailallLayout.createSequentialGroup())
1684     .addContainerGap()
1685     .addComponent(jPanel7, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1686     .addContainerGap()
1687     .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jFrameguimailallLayout.createSequentialGroup())
1688     .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1689     .addComponent(btnngui)
1690     .addGap(72, 72, 72)
1691     .addComponent(btnresetguimail)
1692     .addGap(64, 64, 64)
1693     .addComponent(btnngmdong)
1694     .addGap(54, 54, 54))
1695 );
1696 jFrameguimailallLayout.setVerticalGroup(
1697     jFrameguimailallLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1698     .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jFrameguimailallLayout.createSequentialGroup())
1699     .addContainerGap()
1700     .addComponent(jLabel80, javax.swing.GroupLayout.PREFERRED_SIZE, 55, javax.swing.GroupLayout.PREFERRED_SIZE)
1701     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1702     .addComponent(jPanel7, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1703     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1704     .addComponent(jPanel9, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
1705     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1706     .addGroup(jFrameguimailallLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1707         .addComponent(btnngmdong)
1708         .addComponent(btnresetguimail)
1709         .addComponent(btnngui))
1710     .addContainerGap(55, Short.MAX_VALUE))
1711 );
1712
1713 jFramequenmatkhau.setTitle("Gửi mật khẩu mới");
1714 jFramequenmatkhau.setAlwaysOnTop(true);
1715 jFramequenmatkhau.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
1716 jFramequenmatkhau.setSize(new java.awt.Dimension(400, 200));
1717
1718 jLabel86.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
1719 jLabel86.setText("QUÊN MẬT KHẨU");
1720
1721 jLabel87.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1722 jLabel87.setText("Nhập tài khoản:");
1723
1724 btnqmkgui.setText("Gửi mật khẩu mới");
1725 btnqmkgui.addActionListener(new java.awt.event.ActionListener() {
1726     public void actionPerformed(java.awt.event.ActionEvent evt) {
1727         btnqmkguiActionPerformed(evt);
1728     }
1729 });
1730
1731 btnqmkdong.setText("Đồng");
1732 btnqmkdong.addActionListener(new java.awt.event.ActionListener() {
1733     public void actionPerformed(java.awt.event.ActionEvent evt) {
1734         btnqmkdongActionPerformed(evt);
1735     }
1736 });
1737
1738 javax.swing.GroupLayout jFramequenmatkhauLayout = new javax.swing.GroupLayout(jFramequenmatkhau.getContentPane());
1739 jFramequenmatkhau.getContentPane().setLayout(jFramequenmatkhauLayout);
1740 jFramequenmatkhauLayout.setHorizontalGroup(
1741     jFramequenmatkhauLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1742     .addGroup(jFramequenmatkhauLayout.createSequentialGroup()
1743         .addGap(48, 48, 48)
1744         .addGroup(jFramequenmatkhauLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1745             .addGroup(jFramequenmatkhauLayout.createSequentialGroup()
1746                 .addComponent(jLabel86)
1747                 .addContainerGap(146, Short.MAX_VALUE))

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1748 .addGroup(jFramequenmatkhauLayout.createSequentialGroup())
1749 .addComponent(jLabel87)
1750 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1751 .addGroup(jFramequenmatkhauLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
1752 .addComponent(txtqmktaikhoan, javax.swing.GroupLayout.PREFERRED_SIZE, 180, javax.swing.GroupLayout.PREFERRED_SIZE)
1753 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jFramequenmatkhauLayout.createSequentialGroup()
1754 .addComponent(btnqmkgui, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
1755 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1756 .addComponent(btnqmkdong)))
1757 .addGap(83, 83, 83)))
1758 );
1759 jFramequenmatkhauLayout.setVerticalGroup(
1760 jFramequenmatkhauLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1761 .addGroup(jFramequenmatkhauLayout.createSequentialGroup()
1762 .addContainerGap()
1763 .addComponent(jLabel86)
1764 .addGap(31, 31, 31)
1765 .addGroup(jFramequenmatkhauLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1766 .addComponent(jLabel87)
1767 .addComponent(txtqmktaikhoan, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
1768 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1769 .addGroup(jFramequenmatkhauLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1770 .addComponent(btnqmkgui)
1771 .addComponent(btnqmkdong))
1772 .addContainerGap(270, Short.MAX_VALUE))
1773 );
1774
1775 setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
1776 setTitle("Quản Lý Sinh Viên");
1777 setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
1778 setSize(new java.awt.Dimension(864, 648));
1779
1780 btndoimatkhausetIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/doimatkhaus.png"))); // NOI18N
1781 btndoimatkhaus.setText("Đổi mật khẩu");
1782 btndoimatkhaus.addActionListener(new java.awt.event.ActionListener() {
1783     public void actionPerformed(java.awt.event.ActionEvent evt) {
1784         btndoimatkhausActionPerformed(evt);
1785     }
1786 });
1787
1788 jButton4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/Close Window-48.png"))); // NOI18N
1789 jButton4.setText("Thoát");
1790 jButton4.addActionListener(new java.awt.event.ActionListener() {
1791     public void actionPerformed(java.awt.event.ActionEvent evt) {
1792         jButton4ActionPerformed(evt);
1793     }
1794 });
1795
1796 btndangnhap.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/dangxuat.png"))); // NOI18N
1797 btndangnhap.setText("Đăng Nhập");
1798 btndangnhap.addActionListener(new java.awt.event.ActionListener() {
1799     public void actionPerformed(java.awt.event.ActionEvent evt) {
1800         btndangnhapActionPerformed(evt);
1801     }
1802 });
1803
1804 jLabel18.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1805 jLabel18.setText("Hôm nay là:");
1806
1807 jLabel19.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1808 jLabel19.setText("Bây giờ là:");
1809
1810 lbngay.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1811 lbngay.setText("Ngày");
1812
1813 lbgio.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1814 lbgio.setText("Giờ");
1815
1816 lbtennv.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1817 lbtennv.setText("Tên");

```

```

1818
1819 jLabel23.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1820 jLabel23.setText("Xin chào:");
1821
1822 btnguiemail.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/hinhanh/mail.png"))); // NOI18N
1823 btnguiemail.setText("Gửi mail");
1824 btnguiemail.addActionListener(new java.awt.event.ActionListener() {
1825     public void actionPerformed(java.awt.event.ActionEvent evt) {
1826         btnguiemailActionPerformed(evt);
1827     }
1828 });
1829
1830 javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
1831 jPanel1.setLayout(jPanel1Layout);
1832 jPanel1Layout.setHorizontalGroup(
1833     jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1834         .addGroup(jPanel1Layout.createSequentialGroup()
1835             .add(ContainerGap(34, Short.MAX_VALUE))
1836             .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1837                 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
1838                     .addComponent(jLabel23)
1839                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1840                     .addComponent(lbtennv, javax.swing.GroupLayout.PREFERRED_SIZE, 138, javax.swing.GroupLayout.PREFERRED_SIZE))
1841                 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
1842                     .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
1843                         .addComponent(jLabel19)
1844                         .addComponent(jLabel18))
1845                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1846                     .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1847                         .addComponent(lbngay, javax.swing.GroupLayout.PREFERRED_SIZE, 138, javax.swing.GroupLayout.PREFERRED_SIZE)
1848                         .addComponent(lbgio, javax.swing.GroupLayout.PREFERRED_SIZE, 138, javax.swing.GroupLayout.PREFERRED_SIZE))))
1849             .addGap(143, 143, 143)
1850             .addComponent(btnguiemail, javax.swing.GroupLayout.PREFERRED_SIZE, 137, javax.swing.GroupLayout.PREFERRED_SIZE)
1851             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1852             .addComponent(btndoiimatkhu)
1853             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1854             .addComponent(btndangnhap)
1855             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1856             .addComponent(jButton4))
1857 );
1858 jPanel1Layout.setVerticalGroup(
1859     jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1860         .addGroup(jPanel1Layout.createSequentialGroup()
1861             .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1862                 .addComponent(btndoiimatkhu, javax.swing.GroupLayout.PREFERRED_SIZE, 57, javax.swing.GroupLayout.PREFERRED_SIZE)
1863                 .addComponent(jButton4)
1864                 .addComponent(btndangnhap, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1865             .addGroup(jPanel1Layout.createSequentialGroup()
1866                 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1867                     .addComponent(lbngay)
1868                     .addComponent(jLabel18, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1869                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1870                 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1871                     .addComponent(lbgio)
1872                     .addComponent(jLabel19, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1873                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1874                 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
1875                     .addComponent(lbtennv)
1876                     .addComponent(btnguiemail, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1877             );
1878
1879 javax.swing.tree.DefaultMutableTreeNode treeNode1 = new javax.swing.tree.DefaultMutableTreeNode("Các Lớp");
1880 Tdanhsachlop.setModel(new javax.swing.tree.DefaultTreeModel(treeNode1));
1881 Tdanhsachlop.setMinimumSize(new java.awt.Dimension(61, 16));
1882 Tdanhsachlop.addTreeSelectionListener(new javax.swing.event.TreeSelectionListener() {
1883     public void valueChanged(javax.swing.event.TreeSelectionEvent evt) {
1884         TdanhsachlopValueChanged(evt);
1885     }
1886 });
1887 jScrollPane1.setViewportView(Tdanhsachlop);

```

```

1888
1889 tbthongtin.setModel(new javax.swing.table.DefaultTableModel(
1890     new Object [][] {
1891         {null, null, null, null},
1892         {null, null, null, null},
1893         {null, null, null, null},
1894         {null, null, null, null}
1895     },
1896     new String [] {
1897         "Title 1", "Title 2", "Title 3", "Title 4"
1898     }
1899 ));
1900 tbthongtin.addMouseListener(new java.awt.event.MouseAdapter() {
1901     public void mouseClicked(java.awt.event.MouseEvent evt) {
1902         tbthongtinMouseClicked(evt);
1903     }
1904 });
1905 jScrollPane2.setViewportViewView(tbthongtin);
1906
1907 btnhanvien.setBackground(new java.awt.Color(204, 204, 255));
1908 btnhanvien.setBorder(javax.swing.BorderFactory.createEtchedBorder());
1909 btnhanvien.setForeground(new java.awt.Color(0, 0, 255));
1910 btnhanvien.setToolTipText("");
1911 btnhanvien.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1912 btnhanvien.addChangeListener(new javax.swing.event.ChangeListener() {
1913     public void stateChanged(javax.swing.event.ChangeEvent evt) {
1914         btnhanvienStateChanged(evt);
1915     }
1916 });
1917 btnhanvien.addMouseListener(new java.awt.event.MouseAdapter() {
1918     public void mouseClicked(java.awt.event.MouseEvent evt) {
1919         btnhanvienMouseClicked(evt);
1920     }
1921 });
1922
1923 jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1924 jLabel2.setText("Mã Sinh Viên:");
1925
1926 txtgvmasv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1927
1928 jLabel4.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1929 jLabel4.setText("Tên Sinh Viên:");
1930
1931 txtgvtensv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1932
1933 jLabel5.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1934 jLabel5.setText("Điểm Toán:");
1935
1936 txtgvdiemtoan.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1937
1938 jLabel6.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1939 jLabel6.setText("Điểm Tin:");
1940
1941 txtgvdiemtin.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1942
1943 jLabel7.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1944 jLabel7.setText("Điểm Anh:");
1945
1946 txtgvdiemanh.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
1947
1948 btnvvsuadiem.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/Ball Point Pen-32.png"))); // NOI18N
1949 btnvvsuadiem.setText("Sửa Điểm");
1950 btnvvsuadiem.addActionListener(new java.awt.event.ActionListener() {
1951     public void actionPerformed(java.awt.event.ActionEvent evt) {
1952         btnvvsuadiemActionPerformed(evt);
1953     }
1954 });
1955
1956 btnvxoadiem.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/Delete.png"))); // NOI18N
1957 btnvxoadiem.setText("Xóa Điểm");

```

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1958 btngvxoadiem.addActionListener(new java.awt.event.ActionListener() {
1959     public void actionPerformed(java.awt.event.ActionEvent evt) {
1960         btngvxoadiemActionPerformed(evt);
1961     }
1962 });
1963
1964 lbgvhinh.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/hinhanh/noimage.png"))); // NOI18N
1965
1966 jPanel8.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Top 3 Điểm trung bình", javax.swing.border.TitledBorder.CENTER, javax.swing.border.TitledBorder.TOP, new java.awt.Font("Tahoma", 1, 12))); // NOI18N
1967
1968 lbtbp3masv1.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1969
1970 lbtbp3masv2.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1971
1972 lbtbp3masv3.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1973
1974 lbtbp3tensv1.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1975
1976 lbtbp3tensv2.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1977
1978 lbtbp3tensv3.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1979
1980 lbtbp3diemt1.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1981
1982 lbtbp3diemt2.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1983
1984 lbtbp3diemt3.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
1985
1986 javax.swing.GroupLayout jPanel8Layout = new javax.swing.GroupLayout(jPanel8);
1987 jPanel8.setLayout(jPanel8Layout);
1988 jPanel8Layout.setHorizontalGroup(
1989     jPanel8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1990         .addGroup(jPanel8Layout.createSequentialGroup()
1991             .addContainerGap()
1992             .addGroup(jPanel8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1993                 .addComponent(lbtbp3masv1, javax.swing.GroupLayout.PREFERRED_SIZE, 57, javax.swing.GroupLayout.PREFERRED_SIZE)
1994                 .addComponent(lbtbp3masv2, javax.swing.GroupLayout.PREFERRED_SIZE, 57, javax.swing.GroupLayout.PREFERRED_SIZE)
1995                 .addComponent(lbtbp3masv3, javax.swing.GroupLayout.PREFERRED_SIZE, 57, javax.swing.GroupLayout.PREFERRED_SIZE))
1996             .addGap(10, 10, 10)
1997             .addGroup(jPanel8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
1998                 .addComponent(lbtbp3tensv2, javax.swing.GroupLayout.DEFAULT_SIZE, 116, Short.MAX_VALUE)
1999                 .addComponent(lbtbp3tensv3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2000                 .addComponent(lbtbp3tensv1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
2001             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2002             .addGroup(jPanel8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2003                 .addComponent(lbtbp3diemt2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 28, javax.swing.GroupLayout.PREFERRED_SIZE)
2004                 .addComponent(lbtbp3diemt3, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 28, javax.swing.GroupLayout.PREFERRED_SIZE)
2005                 .addComponent(lbtbp3diemt1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 28, javax.swing.GroupLayout.PREFERRED_SIZE))
2006             .addContainerGap())
2007         );
2008 jPanel8Layout.setVerticalGroup(
2009     jPanel8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2010         .addGroup(jPanel8Layout.createSequentialGroup()
2011             .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2012             .addGroup(jPanel8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2013                 .addGroup(jPanel8Layout.createSequentialGroup()
2014                     .addGroup(jPanel8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2015                         .addComponent(lbtbp3tensv1, javax.swing.GroupLayout.PREFERRED_SIZE, 17, javax.swing.GroupLayout.PREFERRED_SIZE)
2016                         .addComponent(lbtbp3diemt1, javax.swing.GroupLayout.PREFERRED_SIZE, 17, javax.swing.GroupLayout.PREFERRED_SIZE))
2017                     .addGap(18, 18, 18)
2018                     .addComponent(lbtbp3tensv2, javax.swing.GroupLayout.PREFERRED_SIZE, 17, javax.swing.GroupLayout.PREFERRED_SIZE))
2019                 .addComponent(lbtbp3diemt2, javax.swing.GroupLayout.PREFERRED_SIZE, 17, javax.swing.GroupLayout.PREFERRED_SIZE))
2020             .addGap(18, 18, 18)
2021             .addGroup(jPanel8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2022                 .addComponent(lbtbp3tensv3, javax.swing.GroupLayout.PREFERRED_SIZE, 17, javax.swing.GroupLayout.PREFERRED_SIZE)
2023                 .addComponent(lbtbp3diemt3, javax.swing.GroupLayout.PREFERRED_SIZE, 17, javax.swing.GroupLayout.PREFERRED_SIZE))
2024             .addContainerGap())
2025         );
2026
2027

```

```

2028         .addGap(18, 18, 18)
2029         .addComponent(lbt0p3masv2, javax.swing.GroupLayout.PREFERRED_SIZE, 17, javax.swing.GroupLayout.PREFERRED_SIZE)
2030         .addGap(18, 18, 18)
2031         .addComponent(lbt0p3masv3, javax.swing.GroupLayout.PREFERRED_SIZE, 17, javax.swing.GroupLayout.PREFERRED_SIZE))))
2032     );
2033
2034     btngvxaexcel.setText("Xuất file Excel");
2035     btngvxaexcel.addActionListener(new java.awt.event.ActionListener() {
2036         public void actionPerformed(java.awt.event.ActionEvent evt) {
2037             btngvxaexcelActionPerformed(evt);
2038         }
2039     });
2040
2041     btngvdong.setText("Đóng");
2042     btngvdong.addActionListener(new java.awt.event.ActionListener() {
2043         public void actionPerformed(java.awt.event.ActionEvent evt) {
2044             btngvdongActionPerformed(evt);
2045         }
2046     });
2047
2048     btngvtimkiem.setText("Tìm kiếm");
2049     btngvtimkiem.addActionListener(new java.awt.event.ActionListener() {
2050         public void actionPerformed(java.awt.event.ActionEvent evt) {
2051             btngvtimkiemActionPerformed(evt);
2052         }
2053     });
2054
2055     btngvguidiem1sv.setText("Gửi điểm cho sinh viên này");
2056     btngvguidiem1sv.addActionListener(new java.awt.event.ActionListener() {
2057         public void actionPerformed(java.awt.event.ActionEvent evt) {
2058             btngvguidiem1svActionPerformed(evt);
2059         }
2060     });
2061
2062     btngvguidiemnhieusv.setText("Gửi điểm nhiều sinh viên");
2063     btngvguidiemnhieusv.addActionListener(new java.awt.event.ActionListener() {
2064         public void actionPerformed(java.awt.event.ActionEvent evt) {
2065             btngvguidiemnhieusvActionPerformed(evt);
2066         }
2067     });
2068
2069     javax.swing.GroupLayout pgiaovienLayout = new javax.swing.GroupLayout(pgiaovien);
2070     pgiaovien.setLayout(pgiaovienLayout);
2071     pgiaovienLayout.setHorizontalGroup(
2072         pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2073         .addGroup(pgiaovienLayout.createSequentialGroup()
2074             .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2075                 .addGroup(pgiaovienLayout.createSequentialGroup()
2076                     .addGap(38, 38, 38)
2077                     .addComponent(lbgvnhinh, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE))
2078                 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pgiaovienLayout.createSequentialGroup()
2079                     .addContainerGap()
2080                     .addComponent(btngvdong)
2081                     .addGap(18, 18, 18)))
2082             .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2083                 .addGroup(pgiaovienLayout.createSequentialGroup()
2084                     .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 80, javax.swing.GroupLayout.PREFERRED_SIZE)
2085                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2086                     .addComponent(txtgvmasv, javax.swing.GroupLayout.PREFERRED_SIZE, 71, javax.swing.GroupLayout.PREFERRED_SIZE))
2087                 .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
2088                     .addGroup(pgiaovienLayout.createSequentialGroup()
2089                         .addComponent(btngvsuadiem)
2090                         .addGap(18, 18, 18)
2091                         .addComponent(btngvxoadiem, javax.swing.GroupLayout.PREFERRED_SIZE, 123, javax.swing.GroupLayout.PREFERRED_SIZE)
2092                         .addComponent(btngvguidiemnhieusv, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2093                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2094                         .addComponent(btngvtimkiem)
2095                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2096                         .addComponent(btngvxaexcel))
2097                     .addGap(18, 18, 18)))
2098             .addContainerGap(18, true))
2099     );

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```

2098     .addGroup(pgiaovienLayout.createSequentialGroup())
2099     .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2100     .addGroup(pgiaovienLayout.createSequentialGroup()
2101         .addComponent(jLabel4)
2102         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2103         .addComponent(txtgtensv, javax.swing.GroupLayout.PREFERRED_SIZE, 160, javax.swing.GroupLayout.PREFERRED_SIZE))
2104     .addGroup(pgiaovienLayout.createSequentialGroup()
2105         .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2106             .addComponent(btngvguidiem1sv, javax.swing.GroupLayout.PREFERRED_SIZE, 179, javax.swing.GroupLayout.PREFERRED_SIZE)
2107             .addGroup(javax.swing.GroupLayout.Alignment.LEADING, pgiaovienLayout.createSequentialGroup()
2108                 .addComponent(jLabel5)
2109                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2110                 .addComponent(txtgvdientoin, javax.swing.GroupLayout.PREFERRED_SIZE, 43, javax.swing.GroupLayout.PREFERRED_SIZE)
2111                 .addGap(18, 18, 18)
2112                 .addComponent(jLabel6)))
2113             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2114             .addComponent(txtgvdientin, javax.swing.GroupLayout.PREFERRED_SIZE, 43, javax.swing.GroupLayout.PREFERRED_SIZE)
2115             .addGap(18, 18, 18)
2116             .addComponent(jLabel7)
2117             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2118             .addComponent(txtgvdienanh, javax.swing.GroupLayout.PREFERRED_SIZE, 43, javax.swing.GroupLayout.PREFERRED_SIZE)))
2119     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2120     .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
2121     .addContainerGap(27, Short.MAX_VALUE))
2122 );
2123 pgiaovienLayout.setVerticalGroup(
2124     pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2125     .addGroup(pgiaovienLayout.createSequentialGroup()
2126         .addContainerGap()
2127         .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2128             .addGroup(pgiaovienLayout.createSequentialGroup()
2129                 .addComponent(lbgvnhinh, javax.swing.GroupLayout.PREFERRED_SIZE, 134, javax.swing.GroupLayout.PREFERRED_SIZE)
2130                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2131                 .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2132                     .addComponent(btngvsuadiem)
2133                     .addComponent(btngvxoadiem)
2134                     .addComponent(btngvdong)))
2135             .addGroup(pgiaovienLayout.createSequentialGroup()
2136                 .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2137                     .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2138                     .addComponent(txtgvmasv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2139                 .addGap(18, 18, 18)
2140                 .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2141                     .addGroup(pgiaovienLayout.createSequentialGroup()
2142                         .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2143                             .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2144                             .addComponent(txtgtensv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2145                         .addGap(18, 18, 18)
2146                         .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2147                             .addComponent(txtgvdientoin, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2148                             .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2149                             .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2150                                 .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2151                                 .addComponent(txtgvdientin, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2152                                 .addComponent(txtgvdienanh, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2153                                 .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2154                                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2155                                 .addComponent(btngvguidiem1sv)
2156                                 .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2157                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 26, Short.MAX_VALUE)
2158                             .addGroup(pgiaovienLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2159                                 .addComponent(btngvxuatexcel)
2160                                 .addComponent(btngvtimkiem)
2161                                 .addComponent(btngvguidiemnhieusv)))
2162                     .addContainerGap())
2163             );
2164     );
2165     tnhanvien.addTab("Giáo Viên", pgiaovien);
2166
2167     jLabel8.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N

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2168     jLabel8.setText("Mã Sinh Viên:");
2169
2170     txtdtmasv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2171
2172     txtdttensv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2173
2174     jLabel9.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2175     jLabel9.setText("Tên Sinh Viên:");
2176
2177     jLabel10.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2178     jLabel10.setText("Ngày sinh:");
2179
2180     jLabel11.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2181     jLabel11.setText("Giới tính:");
2182
2183     rbdtnam.setText("Nam");
2184
2185     rbdtnu.setText("Nữ");
2186
2187     jLabel12.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2188     jLabel12.setText("Email:");
2189
2190     txtdtemailsv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2191
2192     jLabel13.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2193     jLabel13.setText("Địa chỉ:");
2194
2195     txtdtdiachisv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2196
2197     txdtcmndsv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2198
2199     jLabel16.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2200     jLabel16.setText("CMND:");
2201
2202     jLabel17.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2203     jLabel17.setText("Ngày nhập học:");
2204
2205     btndthemsv.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/themdiem.png"))); // NOI18N
2206     btndthemsv.setText("Thêm Sinh Viên");
2207     btndthemsv.addActionListener(new java.awt.event.ActionListener() {
2208         public void actionPerformed(java.awt.event.ActionEvent evt) {
2209             btndthemsvActionPerformed(evt);
2210         }
2211     });
2212
2213     btndtsuasv.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/Ball Point Pen-32.png"))); // NOI18N
2214     btndtsuasv.setText("Sửa Sinh Viên");
2215     btndtsuasv.addActionListener(new java.awt.event.ActionListener() {
2216         public void actionPerformed(java.awt.event.ActionEvent evt) {
2217             btndtsuasvActionPerformed(evt);
2218         }
2219     });
2220
2221     btndtxoasv.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/Delete.png"))); // NOI18N
2222     btndtxoasv.setText("Xóa Sinh Viên");
2223     btndtxoasv.addActionListener(new java.awt.event.ActionListener() {
2224         public void actionPerformed(java.awt.event.ActionEvent evt) {
2225             btndtxoasvActionPerformed(evt);
2226         }
2227     });
2228
2229     btndtdong.setText("Đồng");
2230     btndtdong.addActionListener(new java.awt.event.ActionListener() {
2231         public void actionPerformed(java.awt.event.ActionEvent evt) {
2232             btndtdongActionPerformed(evt);
2233         }
2234     });
2235
2236     javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
2237     jPanel2.setLayout(jPanel2Layout);

```



```

2238 jPanel2Layout.setHorizontalGroup(
2239     jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2240     .addGroup(jPanel2Layout.createSequentialGroup()
2241         .addGap(57, 57, 57)
2242         .addComponent(btndtdong)
2243         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2244         .addComponent(btndthemsv)
2245         .addGap(18, 18, 18)
2246         .addComponent(btndtsuasv)
2247         .addGap(18, 18, 18)
2248         .addComponent(btndtxoasv)
2249         .addContainerGap(28, Short.MAX_VALUE))
2250 );
2251 jPanel2Layout.setVerticalGroup(
2252     jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2253     .addGroup(jPanel2Layout.createSequentialGroup()
2254         .addContainerGap()
2255         .addComponent(btndtdong)
2256         .addContainerGap(18, Short.MAX_VALUE))
2257     .addGroup(jPanel2Layout.createSequentialGroup()
2258         .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2259             .addComponent(btndtxoasv)
2260             .addComponent(btndtsuasv)
2261             .addComponent(btndthemsv))
2262         .addGap(0, 0, Short.MAX_VALUE))
2263 );
2264
2265 lbhinhdt.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/hinhanh/noimage.png"))); // NOI18N
2266 lbhinhdt.addMouseListener(new java.awt.event.MouseAdapter() {
2267     public void mouseClicked(java.awt.event.MouseEvent evt) {
2268         lbhinhdtMouseClicked(evt);
2269     }
2270 });
2271
2272 btndttimkiem.setText("Tìm kiếm");
2273 btndttimkiem.addActionListener(new java.awt.event.ActionListener() {
2274     public void actionPerformed(java.awt.event.ActionEvent evt) {
2275         btndttimkiemActionPerformed(evt);
2276     }
2277 });
2278
2279 btndtxuatexcel.setText("Xuất Excel");
2280 btndtxuatexcel.addActionListener(new java.awt.event.ActionListener() {
2281     public void actionPerformed(java.awt.event.ActionEvent evt) {
2282         btndtxuatexcelActionPerformed(evt);
2283     }
2284 });
2285
2286 btndtguimail.setText("Gửi mail");
2287 btndtguimail.addActionListener(new java.awt.event.ActionListener() {
2288     public void actionPerformed(java.awt.event.ActionEvent evt) {
2289         btndtguimailActionPerformed(evt);
2290     }
2291 });
2292
2293 txdtngaysinh.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2294 txdtngaysinh.setToolTipText("<html>Ngày</html>");
2295
2296 jLabel74.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
2297 jLabel74.setText("");
2298
2299 txdtthangsinh.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2300 txdtthangsinh.setToolTipText("<html>Tháng</html>");
2301
2302 jLabel77.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
2303 jLabel77.setText("");
2304
2305 txdtnamsinh.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2306 txdtnamsinh.setToolTipText("<html>Năm</html>");
2307

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2308 txtDtnamNhaphoc.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2309 txtDtnamNhaphoc.setToolTipText("<html>Năm</html>");
2310
2311 jLabel78.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
2312 jLabel78.setText("");
2313
2314 txtDthangNhaphoc.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2315 txtDthangNhaphoc.setToolTipText("<html>Tháng</html>");
2316
2317 jLabel79.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
2318 jLabel79.setText("");
2319
2320 txtDngayNhaphoc.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2321 txtDngayNhaphoc.setToolTipText("<html>Ngày</html>");
2322
2323 javax.swing.GroupLayout pndtLayout = new javax.swing.GroupLayout(pndt);
2324 pndt.setLayout(pndtLayout);
2325 pndtLayout.setHorizontalGroup(
2326     pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2327         .addGroup(pndtLayout.createSequentialGroup()
2328             .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2329             .addComponent(lbhinhdT, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE)
2330             .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2331                 .addGroup(pndtLayout.createSequentialGroup()
2332                     .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2333                         .addComponent(jLabel9, javax.swing.GroupLayout.Alignment.TRAILING)
2334                         .addComponent(jLabel8, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 80, javax.swing.GroupLayout.PREFERRED_SIZE)
2335                         .addComponent(jLabel10, javax.swing.GroupLayout.Alignment.TRAILING))
2336                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2337                     .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2338                         .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2339                             .addComponent(txtDmasv, javax.swing.GroupLayout.PREFERRED_SIZE, 171, javax.swing.GroupLayout.PREFERRED_SIZE)
2340                             .addComponent(txtDtenv, javax.swing.GroupLayout.PREFERRED_SIZE, 171, javax.swing.GroupLayout.PREFERRED_SIZE))
2341                         .addGroup(pndtLayout.createSequentialGroup()
2342                             .addComponent(txtDngaysinh, javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE)
2343                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2344                             .addComponent(jLabel74, javax.swing.GroupLayout.PREFERRED_SIZE, 12, javax.swing.GroupLayout.PREFERRED_SIZE)
2345                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2346                             .addComponent(txtDthangsinh, javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE)
2347                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2348                             .addComponent(jLabel77, javax.swing.GroupLayout.PREFERRED_SIZE, 13, javax.swing.GroupLayout.PREFERRED_SIZE)))
2349                     .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2350                         .addGroup(pndtLayout.createSequentialGroup()
2351                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2352                             .addComponent(txtDnamsinh, javax.swing.GroupLayout.PREFERRED_SIZE, 63, javax.swing.GroupLayout.PREFERRED_SIZE))
2353                         .addGroup(javax.swing.GroupLayout.Alignment.LEADING, pndtLayout.createSequentialGroup()
2354                             .addGap(39, 39, 39)
2355                             .addComponent(jLabel16)
2356                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2357                             .addComponent(txtDcmndsv, javax.swing.GroupLayout.PREFERRED_SIZE, 171, javax.swing.GroupLayout.PREFERRED_SIZE)))
2358                     .addGroup(pndtLayout.createSequentialGroup()
2359                         .addGap(25, 25, 25)
2360                         .addComponent(jLabel11)
2361                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2362                         .addComponent(rbdtnam)
2363                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2364                         .addComponent(rbdtnu)))
2365                 .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2366                     .addGroup(pndtLayout.createSequentialGroup()
2367                         .addGap(57, 57, 57)
2368                         .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2369                             .addComponent(jLabel13)
2370                             .addComponent(jLabel12)))
2371                     .addGroup(pndtLayout.createSequentialGroup()
2372                         .addGap(18, 18, 18)
2373                         .addComponent(jLabel17)))
2374                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2375                 .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
2376                     .addGroup(javax.swing.GroupLayout.Alignment.LEADING, pndtLayout.createSequentialGroup()
2377                         .addComponent(txtDngayNhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE)

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2378         .addGap(10, 10, 10)
2379         .addComponent(jLabel79, javax.swing.GroupLayout.PREFERRED_SIZE, 12, javax.swing.GroupLayout.PREFERRED_SIZE)
2380         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2381         .addComponent(txtdtthangnhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, 35, javax.swing.GroupLayout.PREFERRED_SIZE)
2382         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2383         .addComponent(jLabel78, javax.swing.GroupLayout.PREFERRED_SIZE, 13, javax.swing.GroupLayout.PREFERRED_SIZE)
2384         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2385         .addComponent(txttdnamnhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, 71, javax.swing.GroupLayout.PREFERRED_SIZE))
2386         .addComponent(txtdtemailsv, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT_SIZE, 200, Short.MAX_VALUE)
2387         .addComponent(txtddiachisv, javax.swing.GroupLayout.Alignment.LEADING))
2388     .addGap(61, 61, 61))
2389     .addGroup(pndtLayout.createSequentialGroup())
2390     .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2391     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2392     .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2393         .addGroup(pndtLayout.createSequentialGroup())
2394             .addComponent(btndtimkiem)
2395             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2396             .addComponent(btndtxuatexcel))
2397         .addComponent(btndtguimail, javax.swing.GroupLayout.PREFERRED_SIZE, 82, javax.swing.GroupLayout.PREFERRED_SIZE))
2398     .addContainerGap(14, Short.MAX_VALUE))
2399 );
2400 pndtLayout.setVerticalGroup(
2401     pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2402     .addGroup(pndtLayout.createSequentialGroup()
2403         .addContainerGap()
2404         .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2405             .addGroup(pndtLayout.createSequentialGroup())
2406                 .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2407                     .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2408                     .addComponent(txtdtmasv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2409                     .addComponent(jLabel12, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2410                     .addComponent(txtdtemailsv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
2411                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2412                 .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2413                     .addComponent(jLabel13, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2414                     .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2415                         .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2416                         .addComponent(txtdttensv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2417                         .addComponent(txtddiachisv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
2418                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2419                     .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2420                         .addGroup(pndtLayout.createSequentialGroup())
2421                         .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2422                             .addComponent(txttdnamnhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2423                             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2424                                 .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2425                                 .addComponent(rbdtnam)
2426                                 .addComponent(rbdtnu)))
2427                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2428                             .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2429                                 .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2430                                     .addComponent(txtdtngaysinh, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2431                                     .addComponent(txtdtthangsinh, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2432                                     .addComponent(txtdtngamsinh, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2433                                     .addComponent(jLabel74, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2434                                     .addComponent(jLabel77, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
2435                                 .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)))
2436                         .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2437                             .addComponent(txtdtngaynhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2438                             .addComponent(jLabel79)
2439                             .addComponent(txtdtthangnhaphoc, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2440                             .addComponent(jLabel78, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
2441                         .addGroup(pndtLayout.createSequentialGroup())
2442                             .addComponent(jLabel17, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2443                             .addGap(0, 0, Short.MAX_VALUE)))
2444                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2445                     .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2446                         .addComponent(jLabel16, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2447                         .addComponent(txtdtcmndsv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

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2448         .addComponent(btndtguimail)))
2449     .addComponent(lbhinhdtdt, javax.swing.GroupLayout.PREFERRED_SIZE, 134, javax.swing.GroupLayout.PREFERRED_SIZE))
2450 .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2451     .addGroup(pndtLayout.createSequentialGroup().createSequentialGroup()
2452         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2453         .addGroup(pndtLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2454             .addComponent(btndtimkiem)
2455             .addComponent(btndtxuatexcel))
2456         .addContainerGap(46, Short.MAX_VALUE))
2457     .addGroup(pndtLayout.createSequentialGroup().createSequentialGroup()
2458         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2459         .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2460         .addContainerGap(20, Short.MAX_VALUE))))
2461 );
2462
2463 tbnhanvien.addTab("Đào Tạo", pndt);
2464
2465 txtlmalop.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2466
2467 jLabel115.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2468 jLabel115.setText("Mã lớp:");
2469
2470 jLabel26.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2471 jLabel26.setText("Mã Giáo Viên:");
2472
2473 txtlmagv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2474
2475 jLabel27.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2476 jLabel27.setText("Khối:");
2477
2478 jLabel28.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2479 jLabel28.setText("Lớp:");
2480
2481 jLabel29.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2482 jLabel29.setText("Niên Khóa:");
2483
2484 txtllop.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2485
2486 txtlnienkhoa.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2487
2488 cblkhoi.setFont(new java.awt.Font("Tahoma", 0, 12)); // NOI18N
2489 cblkhoi.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "10", "11", "12" }));
2490
2491 btnlthem.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/themdiem.png"))); // NOI18N
2492 btnlthem.setText("Thêm Lớp");
2493 btnlthem.addActionListener(new java.awt.event.ActionListener() {
2494     public void actionPerformed(java.awt.event.ActionEvent evt) {
2495         btnlthemActionPerformed(evt);
2496     }
2497 });
2498
2499 btnlsualop.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/Ball Point Pen-32.png"))); // NOI18N
2500 btnlsualop.setText("Sửa Lớp");
2501 btnlsualop.addActionListener(new java.awt.event.ActionListener() {
2502     public void actionPerformed(java.awt.event.ActionEvent evt) {
2503         btnlsualopActionPerformed(evt);
2504     }
2505 });
2506
2507 btnlxoalop.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/Delete.png"))); // NOI18N
2508 btnlxoalop.setText("Xóa Lớp");
2509 btnlxoalop.addActionListener(new java.awt.event.ActionListener() {
2510     public void actionPerformed(java.awt.event.ActionEvent evt) {
2511         btnlxoalopActionPerformed(evt);
2512     }
2513 });
2514
2515 javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
2516 jPanel5.setLayout(jPanel5Layout);
2517 jPanel5Layout.setHorizontalGroup(

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2518 jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2519 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel5Layout.createSequentialGroup())
2520 .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2521 .addComponent(btnlthem)
2522 .addGap(18, 18, 18)
2523 .addComponent(btnlsualop)
2524 .addGap(18, 18, 18)
2525 .addComponent(btnlxoalop, javax.swing.GroupLayout.PREFERRED_SIZE, 120, javax.swing.GroupLayout.PREFERRED_SIZE)
2526 .addGap(39, 39, 39))
2527 );
2528 jPanel5Layout.setVerticalGroup(
2529 jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2530 .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2531 .addComponent(btnlthem)
2532 .addComponent(btnlsualop)
2533 .addComponent(btnlxoalop))
2534 );
2535
2536 pnlthem.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Thêm học sinh vào lớp", javax.swing.border.TitledBorder.CENTER, javax.swing.border.TitledBorder.TOP, new java.awt.Font("Tahoma", 1, 12))); // NOI18N
2537
2538 btnlophemsv.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/themdiem.png"))); // NOI18N
2539 btnlophemsv.setText("Thêm Sinh Viên");
2540 btnlophemsv.addActionListener(new java.awt.event.ActionListener() {
2541     public void actionPerformed(java.awt.event.ActionEvent evt) {
2542         btnlophemsvActionPerformed(evt);
2543     }
2544 });
2545
2546 txtlthemmasv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2547
2548 jLabel30.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2549 jLabel30.setText("Mã sv:");
2550
2551 jLabel31.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2552 jLabel31.setText("Lớp:");
2553
2554 javax.swing.GroupLayout pnlthemLayout = new javax.swing.GroupLayout(pnlthem);
2555 pnlthem.setLayout(pnlthemLayout);
2556 pnlthemLayout.setHorizontalGroup(
2557     pnlthemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2558     .addGroup(pnlthemLayout.createSequentialGroup()
2559         .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2560         .addGroup(pnlthemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2561             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pnlthemLayout.createSequentialGroup()
2562                 .addGroup(pnlthemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2563                     .addComponent(jLabel31)
2564                     .addComponent(jLabel30))
2565                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2566                 .addGroup(pnlthemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
2567                     .addComponent(cblthemmalop, 0, 83, Short.MAX_VALUE)
2568                     .addComponent(txtlthemmasv))
2569                 .addGap(49, 49, 49))
2570             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pnlthemLayout.createSequentialGroup()
2571                 .addComponent(btnlophemsv)
2572                 .addGap(29, 29, 29))))
2573 );
2574 pnlthemLayout.setVerticalGroup(
2575     pnlthemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2576     .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pnlthemLayout.createSequentialGroup()
2577         .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2578         .addGroup(pnlthemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2579             .addComponent(txtlthemmasv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2580             .addComponent(jLabel30, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE))
2581         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2582         .addGroup(pnlthemLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2583             .addComponent(jLabel31, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2584             .addComponent(cblthemmalop, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2585         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2586         .addComponent(btnlophemsv))
2587 );

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2588
2589 pnlxaa.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Xóa học sinh khỏi lớp", javax.swing.border.TitledBorder.CENTER, javax.swing.border.TitledBorder.TOP, new java.awt.Font("Tahoma", 1, 12))); // NOI18N
2590
2591 btnlopxoasv.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/themdiem.png"))); // NOI18N
2592 btnlopxoasv.setText("Xóa Sinh Viên");
2593 btnlopxoasv.addActionListener(new java.awt.event.ActionListener() {
2594     public void actionPerformed(java.awt.event.ActionEvent evt) {
2595         btnlopxoasvActionPerformed(evt);
2596     }
2597 });
2598
2599 txtlxoamasv.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
2600
2601 jLabel32.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2602 jLabel32.setText("Mã sv:");
2603
2604 jLabel33.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
2605 jLabel33.setText("Tư lớp");
2606
2607 javax.swing.GroupLayout pnlxaaLayout = new javax.swing.GroupLayout(pnlxaa);
2608 pnlxaa.setLayout(pnlxaaLayout);
2609 pnlxaaLayout.setHorizontalGroup(
2610     pnlxaaLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2611         .addGroup(pnlxaaLayout.createSequentialGroup()
2612             .add(ContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
2613             .addGroup(pnlxaaLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2614                 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pnlxaaLayout.createSequentialGroup()
2615                     .addGroup(pnlxaaLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
2616                         .addComponent(jLabel32, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2617                         .addComponent(jLabel33, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
2618                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED))
2619                 .addGroup(pnlxaaLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
2620                     .addComponent(cblxoamalop, 0, 83, Short.MAX_VALUE)
2621                     .addComponent(txtlxoamasv))
2622                 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pnlxaaLayout.createSequentialGroup()
2623                     .addGap(49, 49, 49))
2624                     .addComponent(btnlopxoasv)
2625                     .addGap(29, 29, 29))))
2626 );
2627 pnlxaaLayout.setVerticalGroup(
2628     pnlxaaLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2629         .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pnlxaaLayout.createSequentialGroup()
2630             .add(ContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
2631             .addGroup(pnlxaaLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2632                 .addComponent(txtlxoamasv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2633                 .addComponent(jLabel32, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE))
2634             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2635             .addGroup(pnlxaaLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2636                 .addComponent(jLabel33, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2637                 .addComponent(cblxoamalop, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2638             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
2639             .addComponent(btnlopxoasv))
2640 );
2641
2642 btnlsvchuaclop.setText("Hiện các sinh viên chưa có lớp");
2643 btnlsvchuaclop.addActionListener(new java.awt.event.ActionListener() {
2644     public void actionPerformed(java.awt.event.ActionEvent evt) {
2645         btnlsvchuaclopActionPerformed(evt);
2646     }
2647 });
2648
2649 jLabel24.setText("Trong niên khóa:");
2650
2651 btndthiencaclop.setText("Hiện các lớp");
2652 btndthiencaclop.addActionListener(new java.awt.event.ActionListener() {
2653     public void actionPerformed(java.awt.event.ActionEvent evt) {
2654         btndthiencaclopActionPerformed(evt);
2655     }
2656 });
2657

```

```

2658 btnldong.setText("Đóng");
2659 btnldong.addActionListener(new java.awt.event.ActionListener() {
2660     public void actionPerformed(java.awt.event.ActionEvent evt) {
2661         btnldongActionPerformed(evt);
2662     }
2663 });
2664
2665 javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
2666 jPanel4.setLayout(jPanel4Layout);
2667 jPanel4Layout.setHorizontalGroup(
2668     jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2669         .addGroup(jPanel4Layout.createSequentialGroup()
2670             .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
2671                 .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE, 397, javax.swing.GroupLayout.PREFERRED_SIZE)
2672                 .addGroup(jPanel4Layout.createSequentialGroup()
2673                     .addContainerGap()
2674                     .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2675                         .addGroup(jPanel4Layout.createSequentialGroup()
2676                             .addComponent(jLabel15)
2677                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2678                             .addComponent(txtlmalop, javax.swing.GroupLayout.PREFERRED_SIZE, 171, javax.swing.GroupLayout.PREFERRED_SIZE))
2679                         .addGroup(jPanel4Layout.createSequentialGroup()
2680                             .addComponent(jLabel28)
2681                             .addComponent(jLabel26))
2682                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2683                         .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2684                             .addComponent(txtlmagv, javax.swing.GroupLayout.PREFERRED_SIZE, 171, javax.swing.GroupLayout.PREFERRED_SIZE)
2685                             .addComponent(txttllop, javax.swing.GroupLayout.PREFERRED_SIZE, 171, javax.swing.GroupLayout.PREFERRED_SIZE))))
2686                 .addGroup(jPanel4Layout.createSequentialGroup()
2687                     .addGap(25, 25, 25)
2688                     .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2689                         .addComponent(jLabel29)
2690                         .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createSequentialGroup()
2691                             .addGap(31, 31, 31)
2692                             .addComponent(jLabel27)))
2693                     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2694                     .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2695                         .addComponent(cblkhoi, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2696                         .addGroup(jPanel4Layout.createSequentialGroup()
2697                             .addComponent(txtlnienkhoa, javax.swing.GroupLayout.PREFERRED_SIZE, 119, javax.swing.GroupLayout.PREFERRED_SIZE)
2698                             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2699                             .addComponent(btnldong)
2700                             .addPreferredGap(javax.swing.GroupLayout.Alignment.TRAILING)))
2701                         .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2702                             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createSequentialGroup()
2703                                 .addComponent(btndthiencaolop, javax.swing.GroupLayout.PREFERRED_SIZE, 98, javax.swing.GroupLayout.PREFERRED_SIZE)
2704                                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2705                                 .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
2706                                     .addGroup(jPanel4Layout.createSequentialGroup()
2707                                         .addComponent(jLabel24)
2708                                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2709                                         .addComponent(cbdtnienkhoa, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
2710                                     .addComponent(btlnsvchuacolop))
2711                                 .addGap(24, 24, 24))
2712                             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createSequentialGroup()
2713                                 .addComponent(pnlthem, javax.swing.GroupLayout.PREFERRED_SIZE, 180, javax.swing.GroupLayout.PREFERRED_SIZE)
2714                                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2715                                 .addComponent(pnlxoa, javax.swing.GroupLayout.PREFERRED_SIZE, 180, javax.swing.GroupLayout.PREFERRED_SIZE)
2716                                 .addGap(6, 6, 6)))
2717                         .addGroup(jPanel4Layout.createSequentialGroup()
2718                             .addContainerGap()
2719                             .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2720                                 .addGroup(jPanel4Layout.createSequentialGroup()
2721                                     .addComponent(pnlxoa, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2722                                     .addComponent(pnlthem, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2723                                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2724                                 .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2725                                     .addPreferredGap(javax.swing.GroupLayout.Alignment.TRAILING)
2726                                     .addGroup(jPanel4Layout.createSequentialGroup()
2727

```



```

2728         .addComponent(btndthiencaolop)
2729         .addComponent(btlnsvchuacolop))
2730     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
2731     .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2732         .addComponent(jLabel24)
2733         .addComponent(cbdtnienkhoa, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2734     .addContainerGap(30, Short.MAX_VALUE))
2735     .addGroup(jPanel4Layout.createSequentialGroup())
2736     .addGap(21, 21, 21)
2737     .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2738         .addComponent(txtlmalop, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2739         .addComponent(jLabel15, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE))
2740     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
2741     .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2742         .addComponent(jLabel28, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2743         .addComponent(txtllop, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2744     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
2745     .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2746         .addComponent(jLabel26, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2747         .addComponent(txtlmagv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
2748     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
2749     .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2750         .addGroup(jPanel4Layout.createSequentialGroup())
2751             .addComponent(cbkloi, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2752             .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
2753             .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
2754                 .addComponent(txtlnienkhoa, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2755                 .addComponent(btlnldong)))
2756         .addGroup(jPanel4Layout.createSequentialGroup())
2757             .addComponent(jLabel27, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)
2758             .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
2759             .addComponent(jLabel29, javax.swing.GroupLayout.PREFERRED_SIZE, 22, javax.swing.GroupLayout.PREFERRED_SIZE)))
2760     .addPreferredGap(javax.swing.GroupLayout.ComponentPlacement.RELATED)
2761     .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2762     .addGap(0, 0, Short.MAX_VALUE)
2763 );
2764
2765     tbnhanvien.addTab("Lớp", jPanel4);
2766
2767     jMenuItem.setText("Quản lý");
2768
2769     jMenuItemaotaiKhoan.setText("Tạo tài khoản");
2770     jMenuItemaotaiKhoan.addActionListener(new java.awt.event.ActionListener() {
2771         public void actionPerformed(java.awt.event.ActionEvent evt) {
2772             jMenuItemaotaiKhoanActionPerformed(evt);
2773         }
2774     });
2775     jMenuItem.add(jMenuItemaotaiKhoan);
2776
2777     jMenuItemquanlymatkhau.setText("Quản lý mật khẩu");
2778     jMenuItemquanlymatkhau.addActionListener(new java.awt.event.ActionListener() {
2779         public void actionPerformed(java.awt.event.ActionEvent evt) {
2780             jMenuItemquanlymatkhauActionPerformed(evt);
2781         }
2782     });
2783     jMenuItem.add(jMenuItemquanlymatkhau);
2784
2785     jMenuItemhongtinnhanvien.setText("Thông tin nhân viên");
2786     jMenuItemhongtinnhanvien.addActionListener(new java.awt.event.ActionListener() {
2787         public void actionPerformed(java.awt.event.ActionEvent evt) {
2788             jMenuItemhongtinnhanvienActionPerformed(evt);
2789         }
2790     });
2791     jMenuItem.add(jMenuItemhongtinnhanvien);
2792
2793     jMenuItem2.setText("Thoát");
2794     jMenuItem2.addActionListener(new java.awt.event.ActionListener() {
2795         public void actionPerformed(java.awt.event.ActionEvent evt) {
2796             jMenuItem2ActionPerformed(evt);
2797         }
2798     });

```



```

2798     });
2799     jMenuItem1.add(jMenuItem2);
2800
2801     jMenuItemBar1.add(jMenuItem1);
2802
2803     jMenudulieu.setText("Dữ liệu");
2804
2805     jMenusaoluu.setText("Sao Lưu");
2806     jMenusaoluu.addActionListener(new java.awt.event.ActionListener() {
2807         public void actionPerformed(java.awt.event.ActionEvent evt) {
2808             jMenusaoluuActionPerformed(evt);
2809         }
2810     });
2811     jMenudulieu.add(jMenusaoluu);
2812
2813     jMenuphuchoi.setText("Phục hồi");
2814     jMenuphuchoi.addActionListener(new java.awt.event.ActionListener() {
2815         public void actionPerformed(java.awt.event.ActionEvent evt) {
2816             jMenuphuchoiActionPerformed(evt);
2817         }
2818     });
2819     jMenudulieu.add(jMenuphuchoi);
2820
2821     jMenuItemBar1.add(jMenudulieu);
2822
2823     jMenuItem2.setText("About");
2824
2825     jMenuItemAboutus.setText("About Us");
2826     jMenuItemAboutus.addActionListener(new java.awt.event.ActionListener() {
2827         public void actionPerformed(java.awt.event.ActionEvent evt) {
2828             jMenuItemAboutusActionPerformed(evt);
2829         }
2830     });
2831     jMenuItem2.add(jMenuItemAboutus);
2832
2833     jMenuItemBar1.add(jMenuItem2);
2834
2835     setJMenuBar(jMenuBar1);
2836
2837     javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
2838     getContentPane().setLayout(layout);
2839     layout.setHorizontalGroup(
2840         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2841             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
2842                 .add(ContainerGap())
2843                 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
2844                     .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
2845                     .addGroup(layout.createSequentialGroup()
2846                         .addComponent(jScrollPane1)
2847                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2848                         .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
2849                             .addComponent(jScrollPane2)
2850                             .addComponent(tbnhanvien)))
2851                     .add(ContainerGap()))
2852             );
2853     layout.setVerticalGroup(
2854         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
2855             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
2856                 .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
2857                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2858                 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
2859                     .addGroup(layout.createSequentialGroup()
2860                         .addComponent(tbnhanvien, javax.swing.GroupLayout.PREFERRED_SIZE, 266, javax.swing.GroupLayout.PREFERRED_SIZE)
2861                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
2862                         .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 323, javax.swing.GroupLayout.PREFERRED_SIZE))
2863                     .addComponent(jScrollPane1))
2864                 .add(ContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
2865             );
2866
2867     tbnhanvien.getAccessibleContext().setAccessibleName("");

```

```

2868     pack();
2869 } // </editor-fold>
2870
2871 private void txtDangNhapActionPerformed(java.awt.event.ActionEvent evt) {
2872
2873     String taikhoan = txtDangNhap.getText();
2874     char [] chuoiMatKau = txtDangNhap.getPassword();
2875     String matKau = "";
2876     for(int i=0; i<chuoiMatKau.length; i++)
2877     {
2878         matKau += chuoiMatKau[i];
2879     }
2880     String matKauMD5 = MD5(matKau);
2881     try
2882     {
2883         Class.forName("com.mysql.jdbc.Driver");
2884         Connection conn = DriverManager.getConnection(urlDB);
2885         Statement st = conn.createStatement();
2886         ResultSet rs = st.executeQuery("select manv, matKau, loaiTaiKhoan, ten from nhanvien where manv like '"+taikhoan+"'");
2887         String taikhoanDB = "";
2888         String matKauDB = "";
2889         int loaiTK = -1;
2890         while(rs.next())
2891         {
2892             taikhoanDB = rs.getString(1);
2893             matKauDB = rs.getString(2);
2894             loaiTK = rs.getInt(3);
2895             this.tennv = rs.getString(4);
2896             break;
2897         }
2898         conn.close();
2899
2900         if(taikhoan.equals(taikhoanDB) && matKauMD5.equals(matKauDB))
2901         {
2902
2903             if(loaiTK == 0)
2904             {
2905                 jFrameDangNhap.setVisible(false);
2906                 quyen(true); this.manv = taikhoanDB; jMenuTaiKhoan.setEnabled(true); jMenuQuanLyMatKau.setEnabled(true); jMenuThongTinNhanVien.setEnabled(true);
2907                 btDangNhap.setText("Đăng xuất"); checkDangNhap = 1; this.loaiTaiKhoan = 0;
2908                 JOptionPane.showMessageDialog(jFrameDangNhap, "Đăng nhập thành công với quyền admin");
2909                 loadTen(); TdanhSachLop.removeAll(); loadDBtao(tennv); quyenText(false); jMenuDulieu.setEnabled(true);
2910                 return;
2911             }
2912
2913             if(loaiTK == 1)
2914             {
2915                 jFrameDangNhap.setVisible(false);
2916                 quyen(true);
2917                 this.manv = taikhoanDB;
2918                 this.loaiTaiKhoan = 1;
2919                 txtGVdiemanh.setEditable(false);
2920                 txtGVdiemtin.setEditable(false);
2921                 txtGVdiemtoan.setEditable(false);
2922                 tbNhanVien.setSelectedIndex(0); tbNhanVien.setEnabledAt(1, false); tbNhanVien.setEnabledAt(2, false);
2923                 tbNhanVien.setEnabledAt(0, true);
2924                 jMenuTaiKhoan.setEnabled(false);
2925                 btDangNhap.setText("Đăng xuất"); checkDangNhap = 1;
2926                 txtGVmasv.setEditable(false);
2927                 txtGVtensv.setEditable(false);
2928                 JOptionPane.showMessageDialog(jFrameDangNhap, "Đăng nhập thành công với quyền giáo viên");
2929                 loadTen(); loadDBgiaovien(this.manv);
2930                 quyenText(false);
2931                 return;
2932             }
2933
2934             if(loaiTK == 2)
2935             {

```

```

2938         jMenuItemaotaikhoan.setEnabled(false);
2939         quyen(true);
2940         quyenetxtd(false);
2941         this.loaitaikkhoan=2;this.manv=taikhoandb;
2942         loaddbdt(); tbnhanvien.setSelectedIndex(1); tbnhanvien.setEnabledAt(0, false);
2943         btndangnhap.setText("Đăng xuất");checkdangnhap=1;
2944         JOptionPane.showMessageDialog(jFrameDangNhap, "Đăng nhập thành công với quyền đảo tạo");
2945         jMenuItemDangNhap.setVisible(false);
2946         txtlmalop.setEditable(false);
2947         txtlmagv.setEditable(false);
2948         txtllop.setEditable(false);
2949         txtlnienkhoa.setEditable(false);
2950         cbllkhoi.setEnabled(false);
2951         loadbdbaotao(tennv);
2952         loadbang();
2953         loadten();
2954         quyenetxt(false);
2955         return;
2956     }
2957 }
2958 }
2959 else
2960 {
2961     JOptionPane.showMessageDialog(jFrameDangNhap, "Tài khoản hoặc mật khẩu không đúng!!!");
2962     return;
2963 }
2964 }
2965 }
2966 }
2967 }
2968 catch (Exception e)
2969 {
2970     System.out.println("Lỗi: "+e);
2971 }
2972 }
2973 }
2974 }
2975 }
2976 private void btndangnhapActionPerformed(java.awt.event.ActionEvent evt) {
2977     if(checkdangnhap==0)
2978     {
2979         jMenuItemDangNhap.setVisible(true);
2980         hh.stop();
2981         return;
2982     }
2983     if(checkdangnhap==1)
2984     {
2985         btngvdongActionPerformed(evt);
2986         btndtdongActionPerformed(evt);
2987         btndldongActionPerformed(evt);
2988         checkdangnhap=0;
2989         quyen(false);
2990         b.clear();
2991         jMenuItemDangNhap.setVisible(true);
2992         jMenuItemdoimatkchau.setVisible(false);
2993         jMenuItemdttimkiem.setVisible(false);
2994         jMenuItemgvtimkiem.setVisible(false);
2995         jMenuItemquanlymk.setVisible(false);
2996         jMenuItemaotaikhoan.setVisible(false);
2997         jMenuItemthongtinnhanvien.setVisible(false);
2998         jMenuItemguimailall.setVisible(false);
2999         jMenuItemguimaildt.setVisible(false);
3000         jMenuItemguimailgv1sv.setVisible(false);
3001         jMenuItemguimailgvnhieusv.setVisible(false);
3002         btndangnhap.setText("Đăng Nhập");
3003         txtndnmatkhau.setText("");
3004         txtndntaikhoan.setText("");
3005         jMenuItemquanlymatkhau.setEnabled(false);
3006         jMenuItemthongtinnhanvien.setEnabled(false);
3007         jMenuItemdulieu.setEnabled(false);

```

```

3008         Tdanhsachlop.clearSelection();
3009         Tdanhsachlop.setModel(null);
3010         Tdanhsachlop.removeAll();
3011     }
3012 }
3013 }
3014 int checkdtthemsv =0;
3015 private void btndtthemsvActionPerformed(java.awt.event.ActionEvent evt) {
3016
3017     if(checkdtthemsv==0)
3018     {
3019
3020         txtdtmasv.setText("");
3021         txtdtensv.setText("");
3022         txtdtcmndsv.setText("");
3023         txtdtiachisv.setText("");
3024         txtdtemailsv.setText("");
3025
3026         txtdtngaynhaphoc.setText("");
3027         txtdtthangnhaphoc.setText("");
3028         txtdtnamnhaphoc.setText("");
3029         txtdtngaysinh.setText("");
3030         txtdtthangsinh.setText("");
3031         txtdtnamsinh.setText("");
3032         btndtsuasv.setEnabled(false);
3033         btndtxoasv.setEnabled(false);
3034         btndtthemsv.setText("Luu");
3035         tbnhanvien.setEnabledAt(2, false);
3036         checkdtthemsv=1;
3037         btndtdong.setEnabled(true);
3038         quyentextdt(true);
3039         return;
3040     }
3041     if(checkdtthemsv==1)
3042     {
3043         if(checkdaotao()==false){return;}
3044         try
3045         {
3046             String sinhnhat = txtdtnamsinh.getText()+"-"+txtdtthangsinh.getText()+"-"+txtdtngaysinh.getText();
3047             String nhaphoc = txtdtnamnhaphoc.getText()+"-"+txtdtthangnhaphoc.getText()+"-"+txtdtngaynhaphoc.getText();
3048             Class.forName(dvsq);
3049             Connection cnt = DriverManager.getConnection(url);
3050             PreparedStatement psm = cnt.prepareStatement("insert into sinhvien(masv,ten,gioitinh, ngaysinh, cmnd, email, diachi, ngaynhaphoc) values(?,?,?,?,?,?,?)");
3051             psm.setString(1, txtdtmasv.getText());
3052             psm.setString(2,txtdtensv.getText() );
3053             int a =0; if(rbdtnam.isSelected()){a=0;} else {a=1;} psm.setInt(3,a);
3054             psm.setString(4, sinhnhat);
3055             psm.setString(5, txtdtcmndsv.getText() );
3056             psm.setString(6,txtdtemailsv.getText() );
3057             psm.setString(7, txtdtiachisv.getText() );
3058             psm.setString(8, nhaphoc );
3059             psm.execute();
3060             cnt.close();
3061             quyentextdt(false);
3062             btndtsuasv.setEnabled(true);
3063             btndtxoasv.setEnabled(true);
3064             tbnhanvien.setEnabledAt(2, true);
3065             btndtthemsv.setText("Thêm Sinh Viên");
3066             checkdtthemsv=1;
3067             btndtdong.setEnabled(false);
3068             loaddbdt();
3069             JOptionPane.showMessageDialog(this, "Thêm thành công!");
3070         }
3071         catch(Exception e)
3072         {
3073             JOptionPane.showMessageDialog(this, "Thêm thất bại! \n Lỗi: "+e);
3074         }
3075     }
3076 }
3077 int checkdtsuasv=0;

```

```

3078 private void btndtsuasvActionPerformed(java.awt.event.ActionEvent evt) {
3079     if(checkdaotao()==false){return;}
3080     if(checkdtsuasv==0)
3081     {
3082         quyentextdt(true);
3083         btndtsuasv.setText("Luu");
3084         btndthemsv.setEnabled(false);
3085         btndtxoasv.setEnabled(false);
3086         btnhanvien.setEnabledAt(2, false);
3087         btndtdong.setEnabled(true);
3088         checkdtsuasv=1;
3089         return;
3090     }
3091
3092     if(checkdtsuasv==1)
3093     {
3094         try
3095         {
3096             String sinhnhat = txttdtnamsinh.getText()+"-"+txttdthangsinh.getText()+"-"+txttdngaysinh.getText();
3097             String nhaphoc = txttdtnamnhaphoc.getText()+"-"+txttdthangnhaphoc.getText()+"-"+txttdngaynhaphoc.getText();
3098             Class.forName(dvsq);
3099             Connection cnt = DriverManager.getConnection(urldb);
3100             PreparedStatement psm = cnt.prepareStatement("update sinhvien set ten = ?, gioitinh=?, ngaysinh=?,cmnd=?,email=?, diachi=?, ngaynhaphoc=? where masv =? ");
3101             psm.setString(8, txttdmasv.getText());
3102             psm.setString(1,txttdtensv.getText() );
3103             int a =0; if(rbdtnam.isSelected()){a=0;} else {a=1;} psm.setInt(2,a);
3104             psm.setString(3, sinhnhat);
3105             psm.setString(4, txttdcmndsv.getText() );
3106             psm.setString(5,txtdtemailsv.getText() );
3107             psm.setString(6, txttddiachisv.getText() );
3108             psm.setString(7, nhaphoc );
3109             psm.execute();
3110             cnt.close();
3111             quyentextdt(false);
3112             btndtsuasv.setText("Sửa Sinh Viên");
3113             btndthemsv.setEnabled(true);
3114             btndtxoasv.setEnabled(true);
3115             btnhanvien.setEnabledAt(2, true);
3116             btndtdong.setEnabled(false);
3117             JOptionPane.showMessageDialog(this, "Sửa thành công!");
3118             checkdtsuasv=0;
3119             loaddbdt();
3120         }
3121         catch(Exception e)
3122         {
3123             JOptionPane.showMessageDialog(this, "Thêm thất bại! \n Lỗi: "+e);
3124         }
3125     }
3126 }
3127
3128 private void tbthongtinMouseClicked(java.awt.event.MouseEvent evt) {
3129     loadbang();
3130 }
3131
3132 private void btndtxoasvActionPerformed(java.awt.event.ActionEvent evt) {
3133
3134     int [] tt=tbthongtin.getSelectedRows();
3135     if(tt.length<=0)return;
3136
3137     String sqlquery = "delete from sinhvien where masv=? and ten =?";
3138     try
3139     {
3140         Class.forName(dvsq);
3141         Connection cnt = DriverManager.getConnection(urldb);
3142         PreparedStatement ps = cnt.prepareStatement(sqlquery);
3143
3144         int n = JOptionPane.showConfirmDialog(this,"Bạn có muốn xóa điểm sinh viên có mã "+txttdmasv.getText(),"Xác thực",JOptionPane.YES_NO_OPTION);
3145         if(n==JOptionPane.YES_OPTION)
3146         {
3147             for(int i=0;i<tt.length;i++)

```

```

3148     {
3149         String ma = tbthongtin.getValueAt(tt[i], 0).toString();
3150         String ten = tbthongtin.getValueAt(tt[i], 1).toString();
3151         ps.setString(1, ma);
3152         ps.setString(2, ten);
3153         ps.execute();
3154     }
3155     cnt.close();
3156     JOptionPane.showMessageDialog(rootPane, "Xóa thành công");
3157     loaddbdt();
3158 }
3159 }
3160 else {cnt.close();return;}
3161
3162
3163 }
3164 catch(Exception e)
3165 {
3166     JOptionPane.showMessageDialog(rootPane, "Lỗi: "+e);
3167 }
3168
3169 }
3170 int checklthem=0;
3171 private void btnlthemActionPerformed(java.awt.event.ActionEvent evt) {
3172     if(checklthem==0)
3173     {
3174         txtlmalop.setText("");
3175         txtlmagv.setText("");
3176         txtllop.setText("");
3177         txtlnienkhoa.setText("");
3178         tbnhanhvien.setEnabledAt(1, false);
3179         quyenchinhhop(true);
3180         btnlxoalop.setEnabled(false);
3181         btnlsualop.setEnabled(false);
3182         btnlthem.setText("Luu");
3183         btnlopthemsv.setEnabled(false);
3184         btnlopxoasv.setEnabled(false);
3185         checklthem=1;
3186         btndong.setEnabled(true);
3187         return;
3188     }
3189     if(checklthem==1)
3190     {
3191         if(checklop()==false){return;}
3192         try
3193         {
3194             Class.forName(dvsq);
3195             Connection cnt = DriverManager.getConnection(urldb);
3196             PreparedStatement psm = cnt.prepareStatement("insert into lop(malop,lop,manv,khoi,nienkhoa) values(?,?,?,?)");
3197             psm.setString(1, txtlmalop.getText());
3198             psm.setString(2,txtllop.getText() );
3199             psm.setString(4,cbllkhai.getSelectedItem().toString() );
3200             psm.setString(3, txtlmagv.getText());
3201             psm.setString(5, txtlnienkhoa.getText() );
3202             psm.execute();
3203             cnt.close();
3204             tbnhanhvien.setEnabledAt(1, true);
3205             quyenchinhhop(false);
3206             btnlxoalop.setEnabled(true);
3207             btnlsualop.setEnabled(true);
3208             btnlthem.setText("Thêm Lớp");
3209             checklthem=0;
3210             btndong.setEnabled(false);
3211             loaddblop();
3212             loadbang();
3213             JOptionPane.showMessageDialog(this, "Thêm thành công!");
3214         }
3215         catch(Exception e)
3216         {
3217             JOptionPane.showMessageDialog(this, "Thêm thất bại! \n Lỗi: "+e);

```

```

3218     }
3219     }
3220 }
3221 int checklsua =0;
3222 private void btnlsualopActionPerformed(java.awt.event.ActionEvent evt) {
3223     if(checklsua==0)
3224     {
3225         btnhanvien.setEnabledAt(1, false);
3226         quyenchinhhop(true);
3227         btnlxoalop.setEnabled(false);
3228         btnlthem.setEnabled(false);
3229         btnlsualop.setText("Luu");
3230         checklsua=1;
3231         btnlopthemsv.setEnabled(false);
3232         btnlopxoasv.setEnabled(false);
3233         btndong.setEnabled(true);
3234         return;
3235     }
3236     if(checklsua==1)
3237     {
3238
3239         if(checklop()==false){return;}
3240         try
3241         {
3242             Class.forName(dvsq);
3243             Connection cnt = DriverManager.getConnection(urldb);
3244             PreparedStatement psm = cnt.prepareStatement("update lop set khoi=?, lop=?,manv=?,nienkhoa=? where malop =? ");
3245             psm.setString(5, txtmalop.getText());
3246             psm.setString(1,cbllkhai.getSelectedItem().toString() );
3247             psm.setString(2, txtlop.getText());
3248             psm.setString(3, txtlmagv.getText() );
3249             psm.setString(4,txtlnienkhoa.getText() );
3250             psm.execute();
3251             cnt.close();
3252             btnhanvien.setEnabledAt(1, true);
3253             quyenchinhhop(false);
3254             btnlxoalop.setEnabled(true);
3255             btnlthem.setEnabled(true);
3256             btnlsualop.setText("Sửa Lốp");
3257             loaddblop();
3258             loadbang();
3259             checklsua=0;
3260             btndong.setEnabled(false);
3261             JOptionPane.showMessageDialog(this, "Sửa thành công!");
3262         }
3263         catch(Exception e)
3264         {
3265             JOptionPane.showMessageDialog(this, "Sửa thất bại! \n Lỗi: "+e);
3266         }
3267     }
3268 }
3269
3270 private void btnlxoalopActionPerformed(java.awt.event.ActionEvent evt) {
3271     int [] tt=tbthongtin.getSelectedRows();
3272     if(tt.length<=0)return;
3273
3274     String sqlquery = "delete from lop where malop=?";
3275     try
3276     {
3277         Class.forName(dvsq);
3278         Connection cnt = DriverManager.getConnection(urldb);
3279         PreparedStatement ps = cnt.prepareStatement(sqlquery);
3280         int n = JOptionPane.showConfirmDialog(this,"Bạn có muốn xóa lốp có mã "+txtmalop.getText(),"Xác thực",JOptionPane.YES_NO_OPTION);
3281         if(n==JOptionPane.YES_OPTION)
3282         {
3283             for(int i=0;i<tt.length;i++)
3284             {
3285                 String malop = tbthongtin.getValueAt(tt[i], 0).toString();
3286                 ps.setString(1, malop);
3287                 ps.execute();

```

```

3288     }
3289
3290     cnt.close();
3291     loaddblop();
3292     loadbang();
3293     JOptionPane.showMessageDialog(this, "Xóa thành công");
3294     return;
3295 }else{cnt.close();}
3296 }
3297 catch(Exception e)
3298 {
3299     JOptionPane.showMessageDialog(this, "Xóa thất bại!!! Lỗi: "+e);
3300 }
3301 }
3302
3303 private void tbnhavienMouseClicked(java.awt.event.MouseEvent evt) {
3304
3305 }
3306
3307 private void btnlopthemsvActionPerformed(java.awt.event.ActionEvent evt) {
3308     if(txtlthemmasv.getText().trim().equals(""))
3309     {
3310         int [] t = tbthongtin.getSelectedRows();
3311         if(t.length<=0){return;}
3312     try
3313     {
3314         Class.forName(dvsq);
3315         Connection cnt = DriverManager.getConnection(urldb);
3316
3317         for(int i =0;i<t.length;i++)
3318         {
3319             PreparedStatement psm = cnt.prepareStatement("insert into diem(malop,masv) values(?,?)");
3320             psm.setString(1, cblthemmalop.getSelectedItem().toString());
3321             psm.setString(2, tbthongtin.getValueAt(t[i], 0).toString());
3322             psm.execute();
3323         }
3324
3325         cnt.close();
3326         loadbangtutree();
3327         JOptionPane.showMessageDialog(this, "Thêm thành công!");
3328     }
3329     catch(Exception e)
3330     {
3331         JOptionPane.showMessageDialog(this, "Thêm thất bại! \n Lỗi: "+e);
3332     }
3333     return;
3334 }
3335 }
3336
3337 try
3338 {
3339     Class.forName(dvsq);
3340     Connection cnt = DriverManager.getConnection(urldb);
3341     PreparedStatement psm = cnt.prepareStatement("insert into diem(malop,masv) values(?,?)");
3342     psm.setString(1, cblthemmalop.getSelectedItem().toString());
3343     psm.setString(2, txtlthemmasv.getText());
3344     psm.execute();
3345     cnt.close();
3346     loadbangtutree();
3347     JOptionPane.showMessageDialog(this, "Thêm thành công!");
3348 }
3349 catch(Exception e)
3350 {
3351     JOptionPane.showMessageDialog(this, "Thêm thất bại! \n Lỗi: "+e);
3352 }
3353
3354
3355 }
3356 }
3357 int checkchonlop=0;

```



```

3358 private void tbnhavienStateChanged(javax.swing.event.ChangeEvent evt) {
3359     if(tbnhavien.getSelectedIndex()==1){checkchonlop=0;loaddbdt();loadbang();return;}
3360     if(tbnhavien.getSelectedIndex()==2 && checkchonlop==0)
3361     {
3362         loaddblop();
3363         loadbang();
3364         checkchonlop=1; btnlopthemsv.setEnabled(false);btnlopxoasv.setEnabled(false);
3365     }
3366 }
3367
3368 private void btnlopxoasvActionPerformed(java.awt.event.ActionEvent evt) {
3369     if(txtlxoamasv.getText().trim().equals(""))
3370     {
3371         int []t = tbthongtin.getSelectedRows();
3372         if(t.length<=0){return;}
3373         try
3374         {
3375             Class.forName(dvsq);
3376             Connection cnt = DriverManager.getConnection(urldb);
3377             for(int i=0;i<t.length;i++){
3378                 PreparedStatement psm = cnt.prepareStatement("delete from diem where masv like ? and malop like ?");
3379                 psm.setString(2, cblxoamalop.getSelectedItem().toString());
3380                 psm.setString(1, tbthongtin.getValueAt(t[i],0).toString());
3381                 psm.execute();
3382             }
3383             cnt.close();
3384             loadbangtutree();
3385             JOptionPane.showMessageDialog(this, "Xóa thành công!");
3386         }
3387         catch(Exception e)
3388         {
3389             JOptionPane.showMessageDialog(this, "Xóa thất bại! \n Lỗi: "+e);
3390         }
3391         return;
3392     }
3393     try
3394     {
3395         Class.forName(dvsq);
3396         Connection cnt = DriverManager.getConnection(urldb);
3397         PreparedStatement psm = cnt.prepareStatement("delete from diem where masv =? and malop=?");
3398         psm.setString(2, cblxoamalop.getSelectedItem().toString());
3399         psm.setString(1, txtlxoamasv.getText());
3400         psm.execute();
3401         cnt.close();
3402         loadbangtutree();
3403         JOptionPane.showMessageDialog(this, "Xóa thành công!");
3404     }
3405     catch(Exception e)
3406     {
3407         JOptionPane.showMessageDialog(this, "Xóa thất bại! \n Lỗi: "+e);
3408     }
3409 }
3410
3411 private void jMenuotaikhoanActionPerformed(java.awt.event.ActionEvent evt) {
3412     jFrametaotaikhoan.setVisible(true);
3413 }
3414
3415 private void btntaotkthaoActionPerformed(java.awt.event.ActionEvent evt) {
3416     jFrametaotaikhoan.setVisible(false);
3417     txttaotkmanv.setText("");
3418     txttaotktennv.setText("");
3419     passtaotkmatkhau.setText("");
3420     passtaotknhaplaimk.setText("");
3421 }
3422
3423 private void btntaotktaoActionPerformed(java.awt.event.ActionEvent evt) {
3424     if(txttaotkmanv.getText().length()>10){JOptionPane.showMessageDialog(jFrametaotaikhoan,"Mã nhân viên quá dài" );return;}
3425     if(txttaotktennv.getText().length()>40){JOptionPane.showMessageDialog(jFrametaotaikhoan,"Tên nhân viên quá dài" );return;}
3426     if(txttaotkmanv.getText().trim().equals("")){JOptionPane.showMessageDialog(jFrametaotaikhoan,"Mã nhân viên trống" );return;}

```

```

3428     if(txttaotktennv.getText().trim().equals("")){OptionPane.showMessageDialog(jFrametaotaikhoan,"Mã nhân viên trống");return;}
3429     if(passtaotkmatkhau.getText().trim().equals("")){OptionPane.showMessageDialog(jFrametaotaikhoan,"Mật khẩu nhân viên trống");return;}
3430     if(passtaotknhaplaink.getText().trim().equals("")){OptionPane.showMessageDialog(jFrametaotaikhoan,"Nhập lại mật khẩu trống");return;}
3431
3432     char [] chuoimatkhau = passtaotkmatkhau.getPassword();
3433     char [] chuoinhaplainmatkhau = passtaotknhaplaink.getPassword();
3434
3435     String matkhau = "";
3436     String nhaplai = "";
3437     try {
3438         for(int i=0;i<chuoimatkhau.length;i++)
3439         {
3440             matkhau += chuoimatkhau[i];
3441             nhaplai += chuoinhaplainmatkhau[i];
3442         }
3443     }
3444     catch(Exception e){OptionPane.showMessageDialog(jFrametaotaikhoan,"Mật khẩu và nhập lại không khớp");return;}
3445     if(!matkhau.equals(nhaplai)){OptionPane.showMessageDialog(jFrametaotaikhoan,"Mật khẩu và nhập lại không khớp");return;}
3446     String matkhaumh = mahoaMD5(matkhau);
3447     String manv = txttaotkmanv.getText();
3448     String tennv = txttaotktennv.getText();
3449     int loaitaikhoan = cbtaoloai.getSelectedIndex();
3450     try
3451     {
3452         Class.forName(dvsq);
3453         Connection cnt = DriverManager.getConnection(urldb);
3454         PreparedStatement psm = cnt.prepareStatement("insert into nhanvien(manv,ten,matkhau,loaitaikhoan) values(?,?,?,?)");
3455         psm.setString(1,manv);
3456         psm.setString(2,tennv);
3457         psm.setString(3,matkhaumh);
3458         psm.setInt(4,loaitaikhoan);
3459         psm.execute();
3460         cnt.close();
3461         JOptionPane.showMessageDialog(jFrametaotaikhoan, "Tạo tài khoản thành công!");
3462     }
3463     catch(Exception e)
3464     {
3465         JOptionPane.showMessageDialog(jFrametaotaikhoan, "Tạo tài khoản thất bại! \n Lỗi: "+e);
3466     }
3467 }
3468
3469
3470 private void Tdanh sachlopValueChanged(javax.swing.event.TreeSelectionEvent evt) {
3471     if(checkdangnhap==0){return;}
3472     loadbangtutree();
3473 }
3474
3475 int checkgvsuadiem=0;
3476 private void btngv suadiemActionPerformed(java.awt.event.ActionEvent evt) {
3477     if(checkgvsuadiem==0)
3478     {
3479         btngv suadiem.setText("Luu");
3480         btngv xoadiem.setEnabled(false);
3481         txtgvdienmanh.setEditable(true);
3482         txtgvdientin.setEditable(true);
3483         txtgvdientoan.setEditable(true);
3484         checkgvsuadiem=1;
3485         btngv dong.setEnabled(true);
3486         return;
3487     }
3488
3489     if(checkgvsuadiem==1){
3490         try{if(Float.parseFloat(txtgvdientoan.getText())>10 || Float.parseFloat(txtgvdientoan.getText())<0){OptionPane.showMessageDialog(this, "Điểm Toán không hợp lệ"); return;}}
3491         catch (Exception e) { JOptionPane.showMessageDialog(this, "Điểm Toán không hợp lệ"+e); return;}
3492         try{if(Float.parseFloat(txtgvdienmanh.getText())>10 || Float.parseFloat(txtgvdienmanh.getText())<0){OptionPane.showMessageDialog(this, "Điểm Anh không hợp lệ"); return;}}
3493         catch (Exception e) { JOptionPane.showMessageDialog(this, "Điểm Toán không hợp lệ"+e); return;}
3494         try{if(Float.parseFloat(txtgvdientin.getText())>10 || Float.parseFloat(txtgvdientin.getText())<0){OptionPane.showMessageDialog(this, "Điểm Tin không hợp lệ"); return;}}
3495         catch (Exception e) { JOptionPane.showMessageDialog(this, "Điểm Toán không hợp lệ"+e); return;}
3496
3497     try

```

```

3498 {
3499     String tt = Tdanh sach lop.getSelectionPath().toString();
3500     Class.forName(dvsq);
3501     Connection cnt = DriverManager.getConnection(urldb);
3502     PreparedStatement psm = cnt.prepareStatement("update diem set diemtoan=?, diemtin=?, diemanh=? where masv =? and malop like (select malop from lop where lop like SUBSTRING('"+tt+"',31,charindex('!', '"+tt+"')-31))");
3503     psm.setFloat(1, Float.parseFloat(txtgvdiemtoan.getText()));
3504     psm.setFloat(2, Float.parseFloat(txtgvdiemtin.getText()));
3505     psm.setFloat(3, Float.parseFloat(txtgvdiemanh.getText()));
3506     psm.setString(4, txtgvmasv.getText());
3507     psm.execute();
3508     cnt.close();
3509     checkgvsuadiem=0;
3510     btngvsuadiem.setText("Sửa điểm");
3511     btngvxoadiem.setEnabled(true);
3512     txtgvdiemanh.setEditable(false);
3513     txtgvdiemtin.setEditable(false);
3514     txtgvdiemtoan.setEditable(false);
3515     btngvdong.setEnabled(false);
3516     JOptionPane.showMessageDialog(this, "Sửa thành công!");
3517     loadtop3();
3518     loadbangtutree();
3519 }
3520 catch(Exception e)
3521 {
3522     JOptionPane.showMessageDialog(this, "Sửa thất bại! \n Lỗi: "+e);
3523 }
3524 }
3525 }
3526 }
3527
3528 private void btngvxoadiemActionPerformed(java.awt.event.ActionEvent evt) {
3529     try
3530     {
3531         int [] tt=tbthongtin.getSelectedRows();
3532         if(tt.length<=0)return;
3533         int n = JOptionPane.showConfirmDialog(this, "Bạn có muốn xóa điểm các sinh viên này!!! ", "Xác thực",JOptionPane.YES_NO_OPTION);
3534         if(n==JOptionPane.YES_OPTION)
3535         {
3536             Class.forName(dvsq);
3537             Connection cnt = DriverManager.getConnection(urldb);
3538             PreparedStatement psm = cnt.prepareStatement("update diem set diemtoan=?, diemtin=?, diemanh=? where masv =? ");
3539             psm.setFloat(1,0);
3540             psm.setFloat(2, 0);
3541             psm.setFloat(3,0 );
3542             for(int i=0;i<tt.length;i++)
3543             {
3544                 psm.setString(4,tbthongtin.getValueAt(tt[i], 0).toString() );
3545                 psm.execute();
3546             }
3547             JOptionPane.showMessageDialog(this, "Xóa thành công!");
3548             cnt.close();
3549             loadtop3();
3550             loadbangtutree();
3551         }
3552         else{return;}
3553     }
3554 }
3555 catch(Exception e)
3556 {
3557     JOptionPane.showMessageDialog(this, "Xóa thất bại! \n Lỗi: "+e);
3558 }
3559 }
3560
3561 private void btndoi matkhauActionPerformed(java.awt.event.ActionEvent evt) {
3562     jFramedoi matkhau.setVisible(true);
3563 }
3564
3565 private void btndm kdoi mkActionPerformed(java.awt.event.ActionEvent evt) {
3566     char [] chuoi matkhau cu = passdm kmkcu.getPassword();
3567     char [] chuoi matkhau moi = passdm kmkmoi.getPassword();

```

```

3568     char [] chuoinhaplai = passdmknhaplai.getPassword();
3569     String matkhaucu = "";
3570     String matkhaumoi = "";
3571     String matkhaunhaplai = "";
3572
3573     for(int i=0;i<chuoimatkhaucu.length;i++)
3574     {
3575         matkhaucu += chuoimatkhaucu[i];
3576     }
3577
3578     for(int i=0;i<chuoimatkhaumoi.length;i++)
3579     {
3580         matkhaumoi += chuoimatkhaumoi[i];
3581     }
3582
3583     for(int i=0;i<chuoinhaplai.length;i++)
3584     {
3585         matkhaunhaplai += chuoinhaplai[i];
3586     }
3587     String matkhaumh = mahoamd5(matkhaucu);
3588     String matkhaumoimh = mahoamd5(matkhaumoi);
3589     String nhaplaimh = mahoamd5(matkhaunhaplai);
3590     try
3591     {
3592         Class.forName(dvsq);
3593         Connection conn = DriverManager.getConnection("jdbc:sqlserver://localhost\\SQLEXPRESS;databaseName=quanlysinhvien","sa","123456");
3594         Statement st = conn.createStatement();
3595         ResultSet rs = st.executeQuery("select manv, matkhau from nhanvien where manv like '"+manv+"'");
3596         String taikhoandb = "";
3597         String matkhaudb = "";
3598         while(rs.next())
3599         {
3600             taikhoandb = rs.getString(1);
3601             matkhaudb = rs.getString(2);
3602             break;
3603         }
3604         if(this.manv.equals(taikhoandb) && matkhaumh.equals(matkhaudb))
3605         {
3606             if(matkhaumoimh.equals(nhaplaimh))
3607             {
3608                 st.execute("update nhanvien set matkhau='"+matkhaumoimh+"' where manv like '"+this.manv+"'");
3609                 JOptionPane.showMessageDialog(rootPane, "Đổi mật khẩu thành công!!!");
3610                 jFramedoiatkhou.setVisible(false);
3611             }
3612             else {JOptionPane.showMessageDialog(rootPane, "Nhập lại mật khẩu không giống!!!");return;}
3613         }
3614         else {JOptionPane.showMessageDialog(rootPane, "Mật khẩu cũ sai!!!");return;}
3615     }
3616     catch(Exception e){}
3617 }
3618 }
3619
3620 private void lbhinhdtdMouseClicked(java.awt.event.MouseEvent evt) {
3621     puhinh.show(evt.getComponent(), evt.getX(), evt.getY());
3622 }
3623
3624 private void jMenuItemAboutusActionPerformed(java.awt.event.ActionEvent evt) {
3625     JOptionPane.showMessageDialog(this, " Teacher's Helper Version 1.0 \n Coder: Rjk Rắc Rối \n Designer: Rjk Rắc Rối \n Hợp tác: 0938793761");
3626 }
3627
3628 private void btngvxaexcelActionPerformed(java.awt.event.ActionEvent evt) {
3629     xuataexcel();
3630 }
3631
3632 private void btnlsvchuacolopActionPerformed(java.awt.event.ActionEvent evt) {
3633     try{
3634
3635         Class.forName(dvsq);
3636         Connection cnt = DriverManager.getConnection(urldb);
3637         String sqlquery = "select masv,ten,(case when gioitinh=0 then 'Nam' else N'Nữ' end),convert(varchar,ngaysinh,103),cmnd,email,diachi,convert(varchar,ngaynhaphoc,103) from sinhvien where masv not in (select masv from diem d join lop l on d.malop = l.malop where l.nienkhoa like '"+cbdttr

```

```

3638 Statement sm = cnt.createStatement();
3639 ResultSet rs = sm.executeQuery(sqlquery);
3640 bang = new DefaultTableModel(title,0);
3641 Vector sv = null;
3642 if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(rootPane, "Không có học sinh nào");return;}
3643 while(rs.next())
3644 {
3645     sv = new Vector();
3646     sv.add(rs.getString(1));
3647     sv.add(rs.getString(2));
3648     sv.add(rs.getString(3));
3649     sv.add(rs.getString(4));
3650     sv.add(rs.getString(5));
3651     sv.add(rs.getString(6));
3652     sv.add(rs.getString(7));
3653     sv.add(rs.getString(8));
3654
3655     bang.addRow(sv);
3656
3657 }
3658 tbthongtin.setModel(bang);
3659 tbthongtin.setRowSelectionInterval(0, 0);
3660 cnt.close();
3661 btnlopthemsv.setEnabled(true);
3662 btnlopxoasv.setEnabled(false);
3663 }
3664 catch(Exception a){JOptionPane.showMessageDialog(this, "Lỗi: "+a);}
3665 }
3666
3667 private void btndthiencaclapActionPerformed(java.awt.event.ActionEvent evt) {
3668     try {
3669         Class.forName(dvsq);
3670         Connection cnt = DriverManager.getConnection(urldb);
3671         String sqlquery = "select malop,lop,manv,khoi,nienkhoa from lop where nienkhoa like '"+cbdtmienkhoa.getSelectedItem()+"'";
3672         Statement sm = cnt.createStatement();
3673         ResultSet rs = sm.executeQuery(sqlquery);
3674         String [] title1 = {"Mã Lớp","Lớp","Mã Giáo Viên","Khối","Niên khóa"};
3675         bang = new DefaultTableModel(title1,0);
3676         cblthemmalop.removeAllItems();
3677         cblxoamalop.removeAllItems();
3678         Vector sv = null;
3679         if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(rootPane, "Chưa có lớp!!!");return;}
3680
3681         while(rs.next())
3682         {
3683             sv = new Vector();
3684             sv.add(rs.getString(1));
3685             sv.add(rs.getString(2));
3686             sv.add(rs.getString(3));
3687             sv.add(rs.getString(4));
3688             sv.add(rs.getString(5));
3689             bang.addRow(sv);
3690             cblthemmalop.addItem(rs.getString(1));
3691             cblxoamalop.addItem(rs.getString(1));
3692         }
3693         tbthongtin.setModel(bang);
3694         tbthongtin.setRowSelectionInterval(0, 0);
3695         cnt.close();
3696         btnlopthemsv.setEnabled(false);
3697         btnlopxoasv.setEnabled(false);
3698     }
3699     catch(Exception a){JOptionPane.showMessageDialog(rootPane, "Lỗi: "+a);}
3700 }
3701
3702 private void jMenuItemquanylmatkhausActionPerformed(java.awt.event.ActionEvent evt) {
3703     JFramequanylmk.setVisible(true);
3704     txtqlmkmkmoi.setText("");
3705     try {
3706         Class.forName(dvsq);
3707         Connection cnt = DriverManager.getConnection(urldb);

```

```

3708 String sqlquery2 = "select manv from nhanvien";
3709 Statement sm1 = cnt.createStatement();
3710 ResultSet rs1 = sm1.executeQuery(sqlquery2);
3711 cbqlmktaikhoan.removeAllItems();
3712 if(rs1.isBeforeFirst() == false){JOptionPane.showMessageDialog(rootPane, "Chưa có tài khoản!!!");return;}
3713 while(rs1.next())
3714 {
3715     cbqlmktaikhoan.addItem(rs1.getString(1));
3716 }
3717 cnt.close();
3718 }
3719 catch(Exception a){JOptionPane.showMessageDialog(rootPane, "Lỗi: "+a);}
3720 }
3721
3722 private void btnqlmkdongActionPerformed(java.awt.event.ActionEvent evt) {
3723     jFramequanlymk.setVisible(false);
3724 }
3725
3726 private void btnqlmkdoiActionPerformed(java.awt.event.ActionEvent evt) {
3727     char [] chuoiatkaumoi = txtqlmkmkmoi.getPassword();
3728     String matkaumoi ="";
3729     for(int i=0;i<chuoiatkaumoi.length;i++)
3730     {
3731         matkaumoi += chuoiatkaumoi[i];
3732     }
3733     String matkaumoimh = mahoamd5(matkaumoi);
3734     try
3735     {
3736         Class.forName(dvsq);
3737         Connection conn = DriverManager.getConnection("jdbc:sqlserver://localhost\\SQLEXPRESS;databaseName=quanlysinhvien","sa","123456");
3738         Statement st = conn.createStatement();
3739         st.executeUpdate("update nhanvien set matkhou='"+matkaumoimh+"' where manv like '"+cbqlmktaikhoan+"'");
3740         JOptionPane.showMessageDialog(rootPane, "Đổi mật khẩu thành công!!!");
3741     }catch(Exception e){JOptionPane.showMessageDialog(rootPane, "Đổi mật khẩu thất bại!!! \n"+e);}
3742 }
3743
3744 private void jMenuthongtinnhanvienActionPerformed(java.awt.event.ActionEvent evt) {
3745     jFramethongtinnhanvien.setVisible(true);
3746     txtqlnvma.setEditable(false);
3747     txtqlnvtennv.setEditable(false);
3748     cbqlnvchucvu.setEnabled(false);
3749     loaddbbtnv();
3750 }
3751 }
3752
3753 private void tbqlnvMouseClicked(java.awt.event.MouseEvent evt) {
3754
3755     try {
3756         int t = tbqlnv.getSelectedRow();
3757         if(t<0)return;
3758         txtqlnvma.setText(tbqlnv.getValueAt(t,0).toString());
3759         txtqlnvtennv.setText(tbqlnv.getValueAt(t,1).toString());
3760         cbqlnvchucvu.setSelectedIndex(Integer.parseInt(tbqlnv.getValueAt(t,2).toString()));
3761         txtqlnvemail.setText(tbqlnv.getValueAt(t,4).toString());
3762         Class.forName(dvsq);
3763         Connection cnt = DriverManager.getConnection(urldb);
3764         String sqlquery = "select hinhanh from nhanvien where manv like '"+txtqlnvma.getText()+"'";
3765         Statement sm = cnt.createStatement();
3766         ResultSet rs = sm.executeQuery(sqlquery);
3767         while(rs.next())
3768         {
3769             if(rs.getString(1).equals("/sof203_assignment1_ps04271/hinhanh/noimage.png"))
3770                 {lbqlnvhinh.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/hinhanh/noimage.png")));}
3771             else {lbqlnvhinh.setIcon(load(rs.getString(1), 100, 134));}
3772             break;
3773         }
3774         cnt.close();
3775     }
3776     catch(Exception a){JOptionPane.showMessageDialog(this, "Lỗi: "+a);}
3777     return;

```

```

3778
3779
3780 }
3781 int checkthaydoinv =0;
3782 private void btnqlnvthaydoiActionPerformed(java.awt.event.ActionEvent evt) {
3783     if(this.checkthaydoinv==0)
3784     {
3785
3786         txtqlnvtennv.setEditable(true);
3787         cbqlnvchucvu.setEnabled(true);
3788         txtqlnvemail.setEditable(true);
3789         btnqlnvthaydoi.setText("Luu");
3790         this.checkthaydoinv =1;
3791         return;
3792     }
3793
3794     if(this.checkthaydoinv==1)
3795     {
3796         try
3797         {
3798             Class.forName(dvsq);
3799             Connection cnt = DriverManager.getConnection(urldb);
3800             PreparedStatement psm = cnt.prepareStatement("update nhanvien set ten=?, loaitaikhoan=?, email=? where manv =? ");
3801             psm.setString(1, txtqlnvtennv.getText());
3802             psm.setInt(2, cbqlnvchucvu.getSelectedIndex());
3803             psm.setString(4, txtqlnvma.getText());
3804             psm.setString(3, txtqlnvemail.getText());
3805             psm.execute();
3806             cnt.close();
3807             txtqlnvtennv.setEditable(false);
3808             cbqlnvchucvu.setEnabled(false);
3809             txtqlnvemail.setEditable(false);
3810             btnqlnvthaydoi.setText("Thay Đổi");
3811             this.checkthaydoinv =0;
3812             JOptionPane.showMessageDialog(jFramethongtinnhanvien, "Sửa Thành Công!!!");
3813             loaddbbtnv();
3814         }
3815         catch(Exception e)
3816         {
3817             JOptionPane.showMessageDialog(jFramethongtinnhanvien, "Sửa thất bại! \n Lỗi: "+e);
3818         }
3819     }
3820 }
3821
3822
3823 private void btnqlnvdongActionPerformed(java.awt.event.ActionEvent evt) {
3824     txtqlnvtennv.setText("");
3825     txtqlnvtennv.setEditable(false);
3826     cbqlnvchucvu.setEnabled(false);
3827     btnqlnvthaydoi.setText("Thay Đổi");
3828     this.checkthaydoinv =0;
3829     jFramethongtinnhanvien.setVisible(false);
3830 }
3831
3832 private void btnqlnvxoaActionPerformed(java.awt.event.ActionEvent evt) {
3833     int []t = tbqlnv.getSelectedRows();
3834     if(t.length<=0){return;}
3835     int n = JOptionPane.showConfirmDialog(this, "Bạn có muốn xóa các nhân viên đã chọn?", "Xác thực",JOptionPane.YES_NO_OPTION);
3836     if(n!=JOptionPane.YES_OPTION){return;}
3837
3838     try
3839     {
3840         Class.forName(dvsq);
3841         Connection cnt = DriverManager.getConnection(urldb);
3842         for(int i=0;i<t.length;i++){
3843             PreparedStatement psm = cnt.prepareStatement("delete from nhanvien where manv =?");
3844             psm.setString(1, tbqlnv.getValueAt(t[i], 0).toString());
3845             psm.execute();
3846         }
3847         cnt.close();

```

```

3848         loadbangtree();
3849         JOptionPane.showMessageDialog(this, "Xóa thành công!");
3850     }
3851     catch(Exception e)
3852     {
3853         JOptionPane.showMessageDialog(this, "Xóa thất bại! \n Lỗi: "+e);
3854     }
3855 }
3856
3857 private void lbqlnvhinhMouseClicked(java.awt.event.MouseEvent evt) {
3858     puhinhnv.show(evt.getComponent(), evt.getX(), evt.getY());
3859 }
3860
3861 private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
3862     int n = JOptionPane.showConfirmDialog(this,"Bạn có muốn Thoát?", "Xác thực",JOptionPane.YES_NO_OPTION);
3863     if(n!=JOptionPane.YES_OPTION){return;}
3864     System.exit(0);
3865 }
3866
3867 private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {
3868     int n = JOptionPane.showConfirmDialog(this,"Bạn có muốn Thoát?", "Xác thực",JOptionPane.YES_NO_OPTION);
3869     if(n!=JOptionPane.YES_OPTION){return;}
3870     System.exit(0);
3871 }
3872
3873 private void btngydongActionPerformed(java.awt.event.ActionEvent evt) {
3874     btngvsuadiem.setText("Sửa điểm");
3875     btngvxoadiem.setEnabled(true);
3876     txtgvmasv.setEditable(false);
3877     txtgvtensv.setEditable(false);
3878     txtgvdiemanh.setEditable(false);
3879     txtgvdiemtin.setEditable(false);
3880     txtgvdiemtoan.setEditable(false);
3881     btngvdong.setEnabled(false);
3882     checkgvsuadiem=0;
3883     loadbang();
3884 }
3885
3886 private void btndtdongActionPerformed(java.awt.event.ActionEvent evt) {
3887     btndthemsv.setText("Thêm Sinh Viên");
3888     btndtsuasv.setText("Sửa Sinh Viên");
3889     btndthemsv.setEnabled(true);
3890     btndtsuasv.setEnabled(true);
3891     btndtxoasv.setEnabled(true);
3892     checkdthemsv=0;
3893     checkdtsuasv=0;
3894     txtdtmasv.setEditable(false);
3895     txtdttensv.setEditable(false);
3896     txtdtngaysinh.setEditable(false);
3897     txtdtthangsinh.setEditable(false);
3898     txtdtnamsinh.setEditable(false);
3899     txtdtcmndsv.setEditable(false);
3900     txtdtdiachisv.setEditable(false);
3901     txtdtemailsv.setEditable(false);
3902     txtdtemailsv.setEditable(false);
3903     txtdtngaynhaphoc.setEditable(false);
3904     txtdtthangnhaphoc.setEditable(false);
3905     txtdtnamnhaphoc.setEditable(false);
3906     rbdtnam.setEnabled(false);
3907     rbdtnu.setEnabled(false);
3908     btndtdong.setEnabled(false);
3909     btnhanvien.setEnabledAt(2, true);
3910     loadbang();
3911 }
3912
3913 private void btnddongActionPerformed(java.awt.event.ActionEvent evt) {
3914     btntlthem.setText("Thêm Lớp");
3915     btntlusualop.setText("Sửa Lớp");
3916     btntlxoalop.setEnabled(true);
3917     btntlthem.setEnabled(true);

```



```

3918 btnlsualop.setEnabled(true);
3919 checklsua=0;
3920 checklthem=0;
3921 txtlmalop.setEditable(false);
3922 txtllop.setEditable(false);
3923 txtlmagv.setEditable(false);
3924 txtlnienkhoa.setEditable(false);
3925 cbllkhoi.setEditable(false);
3926 loadbang();
3927 btlnldong.setEnabled(false);
3928 tbnhanvien.setEnabledAt(1, true);
3929 }
3930
3931 private void btngvtimkiemActionPerformed(java.awt.event.ActionEvent evt) {
3932     JFramegvtimkiem.setVisible(true);
3933     txtgvtkmasv.setText("");
3934     txtgvtktensv.setText("");
3935     txtgvtklpsv.setText("");
3936     txtgvtkdiemsv.setText("");
3937     try {
3938         Class.forName(dvsq);
3939         Connection cnt = DriverManager.getConnection(urldb);
3940         String sqlquery = "select nienkhoa from lop group by nienkhoa";
3941         Statement sm = cnt.createStatement();
3942         ResultSet rs = sm.executeQuery(sqlquery);
3943         cbgvtknam.removeAllItems();
3944         while(rs.next())
3945         {
3946             cbgvtknam.addItem(rs.getString(1));
3947         }
3948         cnt.close();
3949     }
3950     catch(Exception a){OptionPane.showMessageDialog(this, "Lỗi: "+a);}
3951 }
3952
3953 private void btngvtktimActionPerformed(java.awt.event.ActionEvent evt) {
3954     if(tbnhanvien.getSelectedIndex()!=0){OptionPane.showMessageDialog(this, "Hãy chọn tag Giáo Viên!!");return;}
3955     if(txtgvtkdiemsv.getText().trim().isEmpty() == false){
3956         try{if(Float.parseFloat(txtgvtkdiemsv.getText())>10 || Float.parseFloat(txtgvtkdiemsv.getText())<0){OptionPane.showMessageDialog(this, "Điểm không hợp lệ"; return;}
3957         catch (Exception e){ JOptionPane.showMessageDialog(this, "Điểm không hợp lệ: "+e); return;}
3958     }
3959     String masv = "%";
3960     String tensv = "%";
3961     String lopsv = "%";
3962     String namhoc= cbgvtknam.getSelectedItem().toString();
3963     String diem="";
3964     if(txtgvtkmasv.getText().trim().isEmpty()==false){masv = "%"+txtgvtkmasv.getText().trim()+"%";}
3965     if(txtgvtktensv.getText().trim().isEmpty()==false){tensv = "%"+txtgvtktensv.getText().trim()+"%";}
3966     if(txtgvtklpsv.getText().trim().isEmpty()==false){lopsv = "%"+txtgvtklpsv.getText().trim()+"%";}
3967     if(txtgvtkdiemsv.getText().trim().isEmpty() == false)
3968     {
3969         int t = cbgvtkpheptoan.getSelectedIndex();
3970         switch (t)
3971         {
3972             case 0: diem = "and ((d.diemtoan + d.diemtin + d.diemanh)/3) > "+Float.parseFloat(txtgvtkdiemsv.getText()); break;
3973             case 1: diem = "and ((d.diemtoan + d.diemtin + d.diemanh)/3) < "+Float.parseFloat(txtgvtkdiemsv.getText()); break;
3974             case 2: diem = " and ((d.diemtoan + d.diemtin + d.diemanh)/3) = "+Float.parseFloat(txtgvtkdiemsv.getText()); break;
3975         }
3976     }
3977 }
3978 String manv1 = " ";
3979 if(loaitaikhoan==1){manv1 = " and l.manv like '"+this.manv+" " ";}
3980 try {
3981     Class.forName(dvsq);
3982     Connection cnt = DriverManager.getConnection(urldb);
3983     String sqlquery = "select s.masv, s.ten, d.diemtoan, d.diemtin, d.diemanh, substring(convert(varchar,(d.diemtoan + d.diemtin + d.diemanh)/3),0,4) as dtb from "
3984         + "diem d join sinhvien s on d.masv = s.masv "
3985         + "join lop l on d.malop= l.malop "
3986         + "where d.masv like '"+masv+"' and s.ten like '"+tensv+"' and l.lop like '"+lopsv+"' and l.nienkhoa like '"+namhoc+"' "+diem+txtgvtkdiemsv.getText()+manv1;
3987     Statement sm = cnt.createStatement();

```

```

3988 ResultSet rs = sm.executeQuery(sqlquery);
3989 if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(this, "Không tìm thấy!!!");return;}
3990 String title1[]={"Mã Sinh Viên","Tên Sinh Viên","Điểm Toán","Điểm Tin","Điểm Anh","Điểm Trung Bình"};
3991 bang = new DefaultTableModel(title1,0);
3992 Vector sv = null;
3993 if(rs.isBeforeFirst() == false){return;}
3994 while(rs.next())
3995 {
3996     sv = new Vector();
3997     sv.add(rs.getString(1));
3998     sv.add(rs.getString(2));
3999     sv.add(rs.getFloat(3));
4000     sv.add(rs.getFloat(4));
4001     sv.add(rs.getFloat(5));
4002     sv.add(rs.getFloat(6));
4003     bang.addRow(sv);
4004 }
4005 tbthongtin.setModel(bang);
4006 tbthongtin.setRowSelectionInterval(0, 0);
4007 cnt.close();
4008 }
4009 }
4010 catch(Exception a){JOptionPane.showMessageDialog(this, "Lỗi: "+a);}
4011 }
4012 }
4013 }
4014 }
4015 private void btngvtdongActionPerformed(java.awt.event.ActionEvent evt) {
4016     jFramegvtimkiem.setVisible(false);
4017 }
4018 }
4019 private void btndttktimActionPerformed(java.awt.event.ActionEvent evt) {
4020     if(tbnhanvien.getSelectedIndex()!=1){JOptionPane.showMessageDialog(this, "Hãy chọn tag Đào tạo!!");return;}
4021     try
4022     {
4023         if(txtddtkngaysinh.getText().trim().isEmpty()==false){if(Integer.parseInt(txtddtkngaysinh.getText())>31 || Integer.parseInt(txtddtkngaysinh.getText())<0){JOptionPane.showMessageDialog(jFramedttimkiem, "Ngày sinh không hợp lệ: ");return;}}
4024         if(txtddtkthangsinh.getText().trim().isEmpty()==false){if(Integer.parseInt(txtddtkthangsinh.getText())>12 || Integer.parseInt(txtddtkthangsinh.getText())<0){JOptionPane.showMessageDialog(jFramedttimkiem, "Tháng sinh không hợp lệ: ");return;}}
4025         if(txtddtknamsinh.getText().trim().isEmpty()==false){if(Integer.parseInt(txtddtknamsinh.getText())<0){JOptionPane.showMessageDialog(jFramedttimkiem, "Năm sinh không hợp lệ: ");return;}}
4026         if(txtddtkngaynhaphoc.getText().trim().isEmpty()==false){if(Integer.parseInt(txtddtkngaynhaphoc.getText())>31 || Integer.parseInt(txtddtkngaynhaphoc.getText())<0){JOptionPane.showMessageDialog(jFramedttimkiem, "Ngày nhập học không hợp lệ: ");return;}}
4027         if(txtddtkthangnhaphoc.getText().trim().isEmpty()==false){if(Integer.parseInt(txtddtkthangnhaphoc.getText())>12 || Integer.parseInt(txtddtkthangnhaphoc.getText())<0){JOptionPane.showMessageDialog(jFramedttimkiem, "Tháng nhập học hợp lệ: ");return;}}
4028         if(txtddtknamnhaphoc.getText().trim().isEmpty()==false){if(Integer.parseInt(txtddtknamnhaphoc.getText())<0){JOptionPane.showMessageDialog(jFramedttimkiem, "Năm nhập học không hợp lệ: ");return;}}
4029     }catch(Exception e){JOptionPane.showMessageDialog(jFramedttimkiem, "Ngày tháng không hợp lệ: "+e);return;}
4030     String masv="";
4031     String tensv="";
4032     String cmnd="";
4033     String email="";
4034     String diachi="";
4035     String gioitinh=" and gioitinh =0 ";
4036     if(rbddtknu.isSelected()){gioitinh=" and gioitinh =1 ";}
4037     if(rbddtkcahai.isSelected()){gioitinh=" ";}
4038     String ngaysinh=" ";
4039     String thangsinh=" ";
4040     String namsinh=" ";
4041     String ngaynhaphoc=" ";
4042     String thangnhaphoc=" ";
4043     String namnhaphoc=" ";
4044 }
4045 if(txtddtkmasv.getText().trim().isEmpty()==false){masv ="%"+txtddtkmasv.getText()+"%";}
4046 if(txtddtktensv.getText().trim().isEmpty()==false){tensv ="%"+txtddtktensv.getText()+"%";}
4047 if(txtddtkcmnd.getText().trim().isEmpty()==false){cmnd ="%"+txtddtkcmnd.getText()+"%";}
4048 if(txtddtkemail.getText().trim().isEmpty()==false){email ="%"+txtddtkemail.getText()+"%";}
4049 if(txtddtkdiachi.getText().trim().isEmpty()==false){diachi ="%"+txtddtkdiachi.getText()+"%";}
4050 if(txtddtkngaysinh.getText().trim().isEmpty()==false){ngaysinh=" and DATEPART(dd,ngaysinh)="+txtddtkngaysinh.getText();}
4051 if(txtddtkthangsinh.getText().trim().isEmpty()==false){thangsinh=" and DATEPART(mm,ngaysinh)="+txtddtkthangsinh.getText();}
4052 if(txtddtknamsinh.getText().trim().isEmpty()==false){namsinh=" and DATEPART(yyyy,ngaysinh)="+txtddtknamsinh.getText();}
4053 if(txtddtkngaynhaphoc.getText().trim().isEmpty()==false){ngaynhaphoc=" and DATEPART(dd,ngaynhaphoc)="+txtddtkngaynhaphoc.getText();}
4054 if(txtddtkthangnhaphoc.getText().trim().isEmpty()==false){thangnhaphoc=" and DATEPART(mm,ngaynhaphoc)="+txtddtkthangnhaphoc.getText();}
4055 if(txtddtknamnhaphoc.getText().trim().isEmpty()==false){namnhaphoc=" and DATEPART(yyyy,ngaynhaphoc)="+txtddtknamnhaphoc.getText();}
4056 }
4057 try {

```

```

4058 Class.forName(dvsq);
4059 Connection cnt = DriverManager.getConnection(urldb);
4060 String sqlquery = "select masv,ten,(case when gioitinh=0 then 'Nam' else 'Nữ' end),convert(varchar,ngaysinh,103),cmnd,email,diachi,convert(varchar,ngaynhaphoc,103) from sinhvien ";
4061 sqlquery+="where masv like '"+masv+"' and ten like '"+tensv+"' and cmnd like '"+cmnd+"' and email like '"+email+"' and diachi like '"+diachi+"' "+ngaysinh+thangsinh+namsinh+ngaynhaphoc+thangnhaphoc+namnhaphoc+gioitinh;
4062 Statement sm = cnt.createStatement();
4063 ResultSet rs = sm.executeQuery(sqlquery);
4064 bang = new DefaultTableModel(title,0);
4065 Vector sv = null;
4066 if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(rootPane, "Không tìm thấy!!!");return;}
4067 while(rs.next())
4068 {
4069     sv = new Vector();
4070     sv.add(rs.getString(1));
4071     sv.add(rs.getString(2));
4072     sv.add(rs.getString(3));
4073     sv.add(rs.getString(4));
4074     sv.add(rs.getString(5));
4075     sv.add(rs.getString(6));
4076     sv.add(rs.getString(7));
4077     sv.add(rs.getString(8));
4078
4079     bang.addRow(sv);
4080
4081 }
4082 tbthongtin.setModel(bang);
4083 tbthongtin.setRowSelectionInterval(0, 0);
4084 cnt.close();
4085 }
4086 catch(Exception a){JOptionPane.showMessageDialog(this, "Lỗi: "+a);}
4087 }
4088
4089 private void btndttimkiemActionPerformed(java.awt.event.ActionEvent evt) {
4090     txtddtkmasv.setText("");
4091     txtddtkdensv.setText("");
4092     txtddtkngaysinh.setText("");
4093     txtddtkthangsinh.setText("");
4094     txtddtknamsinh.setText("");
4095     txtddtkcmnd.setText("");
4096     txtddtkemail.setText("");
4097     txtddtkdiachi.setText("");
4098     txtddtkngaynhaphoc.setText("");
4099     txtddtkthangnhaphoc.setText("");
4100     txtddtknamnhaphoc.setText("");
4101     rbdttknam.setSelected(true);
4102     jFramedtthongtin.setVisible(true);
4103 }
4104
4105 private void btndtxuatexcelActionPerformed(java.awt.event.ActionEvent evt) {
4106     xuatexceltdt();
4107 }
4108
4109 private void txtddnthoatActionPerformed(java.awt.event.ActionEvent evt) {
4110     System.exit(0);
4111 }
4112
4113 private void btndttkdongActionPerformed(java.awt.event.ActionEvent evt) {
4114     jFramedtthongtin.setVisible(false);
4115 }
4116
4117 private void btngvguidiem1svActionPerformed(java.awt.event.ActionEvent evt) {
4118     if(txtgvmasv.getText().isEmpty()){JOptionPane.showMessageDialog(this,"Chưa chọn học sinh!!!");return;}
4119     txtgmgv1svmatkhau.setText("");
4120     txtgmgv1svghichu.setText("");
4121     jFrameguimailgv1sv.setVisible(true);
4122 }
4123
4124 private void btngmgv1svguiActionPerformed(java.awt.event.ActionEvent evt) {
4125
4126     try{
4127         String tk= txtgmgv1svtaikhoan.getText();

```

```

4128 char[] mk1 = txtgmgv1svmatkhau.getPassword();
4129 String mk="";
4130 for(int i=0;i<mk1.length;i++)
4131 {
4132     mk+=mk1[i];
4133 }
4134 String diachi="";
4135 String tieude="Bảng điểm";
4136 String noidung="";
4137
4138 String tt = Tdanh sachlop.getSelectionPath().toString();
4139 Class.forName(dvsq);
4140 Connection cnt = DriverManager.getConnection(urldb);
4141 String sqlquery = "select s.masv,s.ten,s.email, (SUBSTRING(""+tt+"",31,charindex('','',tt+"")-31)), (SUBSTRING(""+tt+"",11,9)), d.diemtoan, d.diemtin, d.diemanh, ((d.diemtoan+d.diemtin+d.diemanh)/3) from "
4142     + "diem d join sinhvien s on d.masv = s.masv "
4143     + "join lop l on d.malop= l.malop "
4144     + "where d.masv like '"+txtgvmasv.getText()+"' and l.lop like SUBSTRING(""+tt+"",31,charindex('','',tt+"")-31) and l.nienkhoa like SUBSTRING(""+tt+"",11,9)";
4145 Statement sm = cnt.createStatement();
4146 ResultSet rs = sm.executeQuery(sqlquery);
4147 if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(this, "Không tìm thấy sinh viên này");return;}
4148 bang = new DefaultTableModel(title,0);
4149
4150 if(rs.isBeforeFirst() == false){return;}
4151 while(rs.next())
4152 {
4153     diachi = rs.getString(3);
4154     noidung += "BẢNG ĐIỂM\n";
4155     noidung += "Mã sinh viên: "+rs.getString(1)+"\n";
4156     noidung += "Tên sinh viên: "+rs.getString(2)+"\n";
4157     noidung += "Lớp: "+rs.getString(4)+"\n";
4158     noidung += "Niên khóa: "+rs.getString(5)+"\n";
4159     noidung += "-----\n";
4160     noidung += "Điểm Toán: "+rs.getFloat(6)+"\n";
4161     noidung += "Điểm Tin: "+rs.getFloat(7)+"\n";
4162     noidung += "Điểm Anh: "+rs.getFloat(8)+"\n";
4163     noidung += "-----\n";
4164     noidung += "Điểm Trung Bình: "+rs.getFloat(9)+"\n\n";
4165     noidung += "Ghi chú: "+txtgmgv1svghichu.getText();
4166     break;
4167 }
4168
4169 guimailgv1sv b = new guimailgv1sv();
4170 b.tk=tk;
4171 b.mk=mk;
4172 b.guitoi=diachi;
4173 b.tieude=tieude;
4174 b.noidung=noidung;
4175 Thread a = new Thread(b);
4176 a.start();
4177 }
4178 catch(Exception a){return;}
4179
4180 }
4181
4182 private void btngvguidiemnhieusvActionPerformed(java.awt.event.ActionEvent evt) {
4183     if(tbthongtin.getSelectedRowCount()==0){JOptionPane.showMessageDialog(this, "Chưa chọn sinh viên!!!");return;}
4184     txtgmgvnhieusvmatkhau.setText("");
4185     txtgmgvnhieusvghichu.setText("");
4186     jFrameguimailgvnhieusv.setVisible(true);
4187 }
4188
4189 private void btngmgvnhieusvguiActionPerformed(java.awt.event.ActionEvent evt) {
4190     try{
4191         String tk= txtgmgvnhieusvtaikhoan.getText();
4192         char[] mk1 = txtgmgvnhieusvmatkhau.getPassword();
4193         String mk="";
4194         for(int i=0;i<mk1.length;i++)
4195         {
4196             mk+=mk1[i];
4197         }

```

```

4198 String[] diachi = new String[1000];
4199 String tieude="Bảng điểm";
4200 String[] noidung=new String[1000];
4201 int sl= tbthongtin.getSelectedRowCount();
4202 int thutu []= tbthongtin.getSelectedRows();
4203 String tt = Tdanh sachlop.getSelectedPath().toString();
4204 Class.forName(dvsq);
4205 Connection cnt = DriverManager.getConnection(urldb);
4206 for(int g =0;g<sl;g++)
4207 {
4208     String sqlquery = "select s.masv,s.ten, s.email, (SUBSTRING('"+tt+"",31,charindex('J','"+tt+"")-31)), (SUBSTRING('"+tt+"",11,9)), d.diemtoan, d.diemtin, d.diemanh, ((d.diemtoan+d.diemtin+d.diemanh)/3) from "
4209         + "diem d join sinhvien s on d.masv = s.masv "
4210         + "join lop l on d.malop= l.malop "
4211         + "where d.masv like '"+tbthongtin.getValueAt(thutu[g], 0).toString()+"' and l.lop like SUBSTRING('"+tt+"",31,charindex('J','"+tt+"")-31) and l.nienkhoa like SUBSTRING('"+tt+"",11,9)";
4212 Statement sm = cnt.createStatement();
4213 ResultSet rs = sm.executeQuery(sqlquery);
4214     while(rs.next())
4215     {
4216         diachi[g] = rs.getString(3);
4217         noidung[g] += "BẢNG ĐIỂM\n";
4218         noidung[g] += "Mã sinh viên: " + rs.getString(1) + "\n";
4219         noidung[g] += "Tên sinh viên: " + rs.getString(2) + "\n";
4220         noidung[g] += "Lớp: " + rs.getString(4) + "\n";
4221         noidung[g] += "Niên khóa: " + rs.getString(5) + "\n";
4222         noidung[g] += "-----\n";
4223         noidung[g] += "Điểm Toán: " + rs.getFloat(6) + "\n";
4224         noidung[g] += "Điểm Tin: " + rs.getFloat(7) + "\n";
4225         noidung[g] += "Điểm Anh: " + rs.getFloat(8) + "\n";
4226         noidung[g] += "-----\n";
4227         noidung[g] += "Điểm Trung Bình: " + rs.getFloat(9) + "\n\n";
4228         noidung[g] += "Ghi chú: " + txtgmgvnhieusvghichu.getText();
4229         break;
4230     }
4231 }
4232 guidiemgvnhieusv c = new guidiemgvnhieusv(tk,mk,diachi,tieude,noidung,sl);
4233
4234 Thread a = new Thread(c);
4235 a.start();
4236 }
4237 catch(Exception a){JOptionPane.showMessageDialog(jFrameguimailgvnhieusv, "Lỗi: "+a);return;}
4238 }
4239
4240 private void btndtguimailActionPerformed(java.awt.event.ActionEvent evt) {
4241     if(tbthongtin.getSelectedRowCount()==0){JOptionPane.showMessageDialog(this, "Chưa chọn sinh viên!!!");return;}
4242     txtgmdtmk.setText("");
4243     txtgmdtnoidung.setText("");
4244     txtgmdttieude.setText("");
4245     lbgmdtfiledinhkem.setText("");
4246     linkdinhkem = new String[1000];
4247     slfile=0;
4248     jFrameguimaildt.setVisible(true);
4249 }
4250
4251 private void btngmdtguiActionPerformed(java.awt.event.ActionEvent evt) {
4252     String tk= txtgmdttk.getText();
4253     char[] mk1 = txtgmdtmk.getPassword();
4254     String mk="";
4255     for(int i=0;i<mk1.length;i++)
4256     {
4257         mk+=mk1[i];
4258     }
4259     String tieude=txtgmdttieude.getText();
4260     String noidung= txtgmdtnoidung.getText();
4261     int sl= tbthongtin.getSelectedRowCount();
4262     int thutu []= tbthongtin.getSelectedRows();
4263     String[] diachi = new String[1000];
4264     for(int i=0;i<sl;i++)
4265     {
4266         diachi[i]=tbthongtin.getValueAt(thutu[i], 5).toString();
4267     }

```

```

4268     int cc=0;
4269     if(rbgmdtcc.isSelected()){cc=0;}else{cc=1;}
4270     guimaildt c = new guimaildt(tk,mk,diachi,tieude,noidung,sl,cc,linkdinhkem,sfile);
4271
4272     Thread a = new Thread(c);
4273     a.start();
4274
4275
4276 }
4277
4278 private void btngmdtfiledinhkemActionPerformed(java.awt.event.ActionEvent evt) {
4279     chonfiledinhkem();
4280 }
4281
4282 private void btnguifileActionPerformed(java.awt.event.ActionEvent evt) {
4283     chonfiledinhkemall();
4284 }
4285
4286 private void btnguiActionPerformed(java.awt.event.ActionEvent evt) {
4287
4288     char[] mk1 = txtmk.getPassword();
4289     String mk="";
4290     for(int i=0;i<mk1.length;i++)
4291     {
4292         mk+=mk1[i];
4293     }
4294     String []guitoi = laymangemail(txtguiden.getText());
4295     String tieude=txttieude.getText();
4296     String noidung=txtnoidung.getText();
4297     String tk=txttk.getText();
4298     int sl = guitoi.length;
4299     int cc=0;
4300     if(rbcc.isSelected()){cc=1;}
4301     guimailall a = new guimailall(tk,mk, guitoi,tieude,noidung,sl, cc, linkdinhkem, sllink);
4302
4303     Thread b = new Thread(a);
4304     b.start();
4305
4306 }
4307
4308 private void btnguimailActionPerformed(java.awt.event.ActionEvent evt) {
4309     txtmk.setText("");
4310     txtguiden.setText("");
4311     txttieude.setText("");
4312     txtnoidung.setText("");
4313     rbcc.setSelected(true);
4314     linkdinhkemall = new String[1000];
4315     sllink=0;
4316     lbttenfile.setText("");
4317     jFrameguimailall.setVisible(true);
4318 }
4319
4320 private void btnresetguimailActionPerformed(java.awt.event.ActionEvent evt) {
4321     txtguiden.setText("");
4322     txttieude.setText("");
4323     txtnoidung.setText("");
4324     rbcc.setSelected(true);
4325     linkdinhkemall = new String[1000];
4326     sllink=0;
4327     lbttenfile.setText("");
4328 }
4329
4330 private void btngmdongActionPerformed(java.awt.event.ActionEvent evt) {
4331     jFrameguimailall.setVisible(false);
4332 }
4333
4334 private void jMenuSaoLuuActionPerformed(java.awt.event.ActionEvent evt) {
4335
4336     try{
4337         JFileChooser savefile = new JFileChooser();

```

```

4338         int result = savefile.showSaveDialog(jMenuSaoLuu);
4339         if(result != JFileChooser.APPROVE_OPTION){return;}
4340         String link = savefile.getSelectedFile().toString()+"bak";
4341         Class.forName(dvsq);
4342         Connection cnt = DriverManager.getConnection(urldb);
4343         Statement sm = cnt.createStatement();
4344         sm.execute("backup database quanlysinhvien to disk = '"+link+"'");
4345         JOptionPane.showMessageDialog(this, "Sao lưu thành công");
4346         loaddbdt();loadbang();
4347         cnt.close();
4348     }
4349     catch(Exception h){JOptionPane.showMessageDialog(this, "Sao Lưu thất bại!!!"+h);}
4350 }
4351
4352 private void jMenuphuchoiActionPerformed(java.awt.event.ActionEvent evt) {
4353     try{
4354         JFileChooser openfile = new JFileChooser();
4355         int result = openfile.showSaveDialog(jMenuphuchoi);
4356         if(result != JFileChooser.APPROVE_OPTION){return;}
4357         String link = openfile.getSelectedFile().toString();
4358         String sqlquery="restore database quanlysinhvien from disk = '"+link+"' with MOVE 'quanlysinhvien' TO 'C:\\Program Files\\Microsoft SQL Server\\MSSQL12.SQLEXPRESS\\MSSQL\\DATA\\quanlysinhvien.mdf', MOVE 'quanlysinhvien_log' TO 'C:\\Program Files\\Microsoft SQL S
4359         Class.forName(dvsq);
4360         Connection cnt = DriverManager.getConnection("jdbc:sqlserver://localhost\\SQLEXPRESS;databaseName=master;user=sa;password=123456");
4361         Statement sm = cnt.createStatement();
4362         sm.execute(sqlquery);
4363         cnt.close();
4364         JOptionPane.showMessageDialog(this, "Phục hồi thành công!!!");
4365         loaddbdt();loadbang();
4366     }
4367     catch(Exception h){JOptionPane.showMessageDialog(this, "Phục hồi thất bại!!!\nLỗi: "+h);}
4368 }
4369
4370
4371 private void btngmgvnhieusvdongActionPerformed(java.awt.event.ActionEvent evt) {
4372     jFrameguimailgvnhieusv.setVisible(false);
4373 }
4374
4375 private void btngmgv1svdongActionPerformed(java.awt.event.ActionEvent evt) {
4376     jFrameguimailgv1sv.setVisible(false);
4377 }
4378
4379 private void lbdnquenmkMouseClicked(java.awt.event.MouseEvent evt) {
4380     jFramequenmatkhau.setVisible(true);
4381 }
4382
4383 private void btnqmkguiActionPerformed(java.awt.event.ActionEvent evt) {
4384     String ten = txtqmktaikhoan.getText();
4385     String email="";
4386     double r = Math.random();
4387     String t = String.valueOf(r);
4388     String mkmoi = t.substring(2, 8);
4389     String mkmahoa = mahoaMD5(mkmoi);
4390     try
4391     {
4392         Class.forName(dvsq);
4393         Connection cnt = DriverManager.getConnection(urldb);
4394         ResultSet rs = cnt.createStatement().executeQuery("select email from nhanvien where manv like '"+ten+"'");
4395         if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(jFramequenmatkhau, "Tài khoản không tồn tại");return;}
4396         while(rs.next())
4397         {
4398             email = rs.getString(1);
4399             break;
4400         }
4401         cnt.createStatement().execute("update nhanvien set matkhau = '"+mkmahoa+"' where manv like '"+ten+"'");
4402         cnt.close();
4403         Properties ppt = new Properties();
4404         ppt.put("mail.smtp.auth", "true");
4405         ppt.put("mail.smtp.starttls.enable", "true");
4406         ppt.put("mail.smtp.host", "smtp.gmail.com");
4407         ppt.put("mail.smtp.port", "587");

```

```

4408
4409     Session ss = Session.getInstance(ppt,
4410         new javax.mail.Authenticator()
4411         {
4412             protected PasswordAuthentication getPasswordAuthentication(){
4413                 return new PasswordAuthentication("assignmentfinalps04271@gmail.com", "0938793761");
4414             }
4415         }
4416     );
4417
4418
4419     Message msg = new MimeMessage(ss);
4420     msg.setFrom(new InternetAddress("assignmentfinalps04271@gmail.com"));
4421     msg.setRecipients(Message.RecipientType.TO, InternetAddress.parse(email) );
4422     msg.setSubject("Mật khẩu mới của bạn");
4423     msg.setText("Mật khẩu mới của bạn là: \"+mkmoi+\" \nHãy đổi thành mật khẩu mới ở lần đăng nhập tiếp theo!!!");
4424     Transport.send(msg);
4425     JOptionPane.showMessageDialog(jFramequenmatkhau, "Mật khẩu mới đã được gửi vào mail của bạn!!!");
4426 }
4427 catch(Exception e){JOptionPane.showMessageDialog(jFramequenmatkhau, "Lỗi: "+e);}
4428 }
4429
4430 private void btnqmkdongActionPerformed(java.awt.event.ActionEvent evt) {
4431     jFramequenmatkhau.setVisible(false);
4432 }
4433
4434 public void loaddbdt()
4435 {
4436
4437     try {
4438         Class.forName(dvsq);
4439         Connection cnt = DriverManager.getConnection(urldb);
4440         String sqlquery = "select masv,ten,(case when gioitinh=0 then 'Nam' else 'Nữ' end),convert(varchar,ngaysinh,103),cmnd,email,diachi,convert(varchar,ngaynhaphoc,103) from sinhvien";
4441         Statement sm = cnt.createStatement();
4442         ResultSet rs = sm.executeQuery(sqlquery);
4443         bang = new DefaultTableModel(title,0);
4444         Vector sv = null;
4445         if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(rootPane, "Chưa có học sinh");return;}
4446         while(rs.next())
4447         {
4448             sv = new Vector();
4449             sv.add(rs.getString(1));
4450             sv.add(rs.getString(2));
4451             sv.add(rs.getString(3));
4452             sv.add(rs.getString(4));
4453             sv.add(rs.getString(5));
4454             sv.add(rs.getString(6));
4455             sv.add(rs.getString(7));
4456             sv.add(rs.getString(8));
4457
4458             bang.addRow(sv);
4459
4460         }
4461         tbthongtin.setModel(bang);
4462         tbthongtin.setRowSelectionInterval(0, 0);
4463         cnt.close();
4464         sm.close();
4465         rs.close();
4466     }
4467     catch(Exception a){JOptionPane.showMessageDialog(this, "Lỗi: "+a);}
4468 }
4469
4470 public void loaddblop()
4471 {
4472
4473     try {
4474         Class.forName(dvsq);
4475         Connection cnt = DriverManager.getConnection(urldb);
4476         String sqlquery = "select malop,lop,manv,khoi,nienkhoa from lop";
4477         String sqlquery2 = "select nienkhoa from lop group by nienkhoa";

```



```

4478 Statement sm = cnt.createStatement();
4479 Statement sm1 = cnt.createStatement();
4480 ResultSet rs = sm.executeQuery(sqlquery);
4481 ResultSet rs1 = sm1.executeQuery(sqlquery2);
4482 String [] title1 = {"Mã Lớp","Lớp","Mã Giáo Viên","Khối","Niên khóa"};
4483 bang = new DefaultTableModel(title1,0);
4484 cb1themmalop.removeAllItems();
4485 cbdtnienkhoa.removeAllItems();
4486 Vector sv = null;
4487 if(rs.isBeforeFirst() == false){OptionPane.showMessageDialog(rootPane, "Chưa có lớp!!!");return;}
4488 while(rs1.next())
4489 {
4490     cbdtnienkhoa.addItem(rs1.getString(1));
4491 }
4492 while(rs.next())
4493 {
4494     sv = new Vector();
4495     sv.add(rs.getString(1));
4496     sv.add(rs.getString(2));
4497     sv.add(rs.getString(3));
4498     sv.add(rs.getString(4));
4499     sv.add(rs.getString(5));
4500     bang.addRow(sv);
4501     cb1themmalop.addItem(rs.getString(1));
4502     cb1xoamalop.addItem(rs.getString(1));
4503 }
4504 tbthongtin.setModel(bang);
4505 tbthongtin.setRowSelectionInterval(0, 0);
4506 cnt.close();
4507 sm.close();
4508 rs.close();
4509 }
4510 catch(Exception a){OptionPane.showMessageDialog(rootPane, "Lỗi: "+a);}
4511 }
4512
4513
4514 public static String mahoaMD5(String input) {
4515     try {
4516         MessageDigest md = MessageDigest.getInstance("MD5");
4517         byte[] messageDigest = md.digest(input.getBytes());
4518         BigInteger number = new BigInteger(1, messageDigest);
4519         String hashtext = number.toString(16);
4520         while (hashtext.length() < 32) {
4521             hashtext = "0" + hashtext;
4522         }
4523         return hashtext;
4524     } catch (NoSuchAlgorithmException e) {
4525         throw new RuntimeException(e);
4526     }
4527 }
4528
4529 public boolean checkdaotao()
4530 {
4531     if(txtidmasv.getText().length() >=10){OptionPane.showMessageDialog(this, "Mã sinh viên quá dài!!!");return false;}
4532     if(txtdtensv.getText().length() >=40){OptionPane.showMessageDialog(this, "Tên sinh viên quá dài!!!");return false;}
4533
4534     try {Integer.parseInt(txtdcmndsv.getText());} catch (Exception e){OptionPane.showMessageDialog(this, "CMND sinh viên không hợp lệ!!!");return false;}
4535     if(txtdcmndsv.getText().length() <9 || txtdcmndsv.getText().length() >12){OptionPane.showMessageDialog(this, "CMND sinh viên không hợp lệ!!!");return false;}
4536
4537     if(txtdemailsv.getText().indexOf("@")==-1 || txtdemailsv.getText().indexOf(".")>txtdemailsv.getText().indexOf("@")){OptionPane.showMessageDialog(this, "Email không hợp lệ!!!");return false;}
4538     if(txtdemailsv.getText().length() >=50){OptionPane.showMessageDialog(this, "Email sinh viên quá dài!!!");return false;}
4539
4540
4541     return true;
4542 }
4543
4544 public boolean checklop()
4545 {
4546     if(tx1lmalop.getText().length(>10){OptionPane.showMessageDialog(this, "Mã lớp quá dài!!!");return false;}
4547

```

```

4548     if(txtlmgv.getText().length()>10){OptionPane.showMessageDialog(this, "Mã giáo viên quá dài!!!");return false;}
4549     if(txtllop.getText().length()>5){OptionPane.showMessageDialog(this, "Lớp quá dài!!!");return false;}
4550     if(txtlnienkhoa.getText().length()>9){OptionPane.showMessageDialog(this, "Niên khóa quá dài hoặc quá ngắn!!!");return false;}
4551     if(txtlmalop.getText().equals("")){OptionPane.showMessageDialog(this, "Mã lớp trống!!!");return false;}
4552     if(txtlmgv.getText().equals("")){OptionPane.showMessageDialog(this, "Mã lớp trống!!!");return false;}
4553     if(txtllop.getText().equals("")){OptionPane.showMessageDialog(this, "Mã lớp trống!!!");return false;}
4554     if(txtlnienkhoa.getText().equals("")){OptionPane.showMessageDialog(this, "Mã lớp trống!!!");return false;}
4555
4556     try {
4557     if(Integer.parseInt(txtllop.getText().substring(0,2))>12 || Integer.parseInt(txtllop.getText().substring(0,2))<10 || Integer.parseInt(txtllop.getText().substring(0,2))!=Integer.parseInt(cblkhoi.getSelectedItem().toString())){OptionPane.showMessageDialog(this, "Lớp không hợp lệ!!!");return false;}
4558     } catch (Exception e){OptionPane.showMessageDialog(this, "Lớp không hợp lệ!!!");return false;}
4559
4560     try {
4561         int t = Integer.parseInt(txtlnienkhoa.getText().substring(5,9)) - Integer.parseInt(txtlnienkhoa.getText().substring(0,4));
4562         if (t!=1 || !"-" .equals(txtlnienkhoa.getText().substring(4,5)))
4563             {OptionPane.showMessageDialog(this, "Niên khóa không hợp lệ!!!");return false;}
4564     } catch (Exception e){OptionPane.showMessageDialog(this, "Niên khóa không hợp lệ!!!");return false;}
4565
4566     return true;
4567 }
4568
4569 public void loaddbgiaovien(String tentk)
4570 {
4571     try
4572     {
4573         Class.forName(dvsq);
4574         Connection cnt = DriverManager.getConnection(urldb);
4575         String sqlquery = "select nienkhoa from lop where manv like '"+tentk+"' group by nienkhoa";
4576         Statement sm = cnt.createStatement();
4577         ResultSet rs = sm.executeQuery(sqlquery);
4578         Tdanhhsachlop.removeAll();
4579         if(rs.isBeforeFirst() == false){OptionPane.showMessageDialog(this, "Chưa có lớp");return;}
4580
4581         DefaultMutableTreeNode lop = new DefaultMutableTreeNode("Các lớp");
4582
4583         while(rs.next()){
4584             DefaultMutableTreeNode nienkhoa = new DefaultMutableTreeNode(rs.getString(1));
4585             Statement sm2 = cnt.createStatement();
4586             ResultSet rs2 = sm2.executeQuery("select khoi from lop where manv like '"+tentk+"' and nienkhoa like '"+rs.getString(1)+"' group by khoi");
4587
4588             while(rs2.next())
4589             {
4590
4591                 DefaultMutableTreeNode lop1 = new DefaultMutableTreeNode("Khối "+rs2.getInt(1));
4592                 Statement sm1 = cnt.createStatement();
4593                 ResultSet rs1 = sm1.executeQuery("select lop from lop where manv like '"+tentk+"' and khoi ="+rs2.getInt(1)+" and nienkhoa like '"+rs.getString(1)+"' group by lop");
4594
4595                 while(rs1.next())
4596                 {
4597                     DefaultMutableTreeNode lop2 = new DefaultMutableTreeNode(rs1.getString(1));
4598                     lop1.add(lop2);
4599                 }
4600                 nienkhoa.add(lop1);
4601             }
4602             lop.add(nienkhoa);
4603         }
4604
4605         DefaultTreeModel listtree = new DefaultTreeModel(lop);
4606
4607         Tdanhhsachlop.setModel(listtree);
4608         cnt.close();
4609
4610     }
4611     catch (Exception a){OptionPane.showMessageDialog(jFrameDangNhap, "Lỗi: "+a);}
4612 }
4613
4614 public void loadtop3()
4615 {
4616     lbtop3masv1.setText(""); lbtop3tensv1.setText(""); lbtop3diemtb1.setText("");
4617

```

```

4618 lbt0p3masv2.setText(""); lbt0p3tensv2.setText(""); lbt0p3diembt2.setText("");
4619 lbt0p3masv3.setText(""); lbt0p3tensv3.setText(""); lbt0p3diembt3.setText("");
4620 String tt = Tdanh sachlop.getSelectionPath().toString();
4621 String nv = "%";
4622 if(loaitaikkhoan==1){nv=this.manv;}
4623 try
4624 {
4625     Class.forName(dvsq);
4626     Connection cnt = DriverManager.getConnection(urldb);
4627     Statement sm = cnt.createStatement();
4628     ResultSet rs = sm.executeQuery("select top 3 d.masv, s.ten, convert(float,substring(convert(varchar,(d.diemtoan + d.diemtin + d.diemanh)/3),0,4)) as dtb" +
4629         " from diem d join lop l on d.malop = l.malop" +
4630         " join sinhvien s on d.masv = s.masv where l.manv like '"+nv+"' and l.lop like SUBSTRING('"+tt+"',31,charindex('l','"+tt+"')-31) and l.nienkhoe like SUBSTRING('"+tt+"',11,9) order by dtb desc");
4631     int i = 1;
4632     while(rs.next())
4633     {
4634         if(i==1){lbt0p3masv1.setText(rs.getString(1)); lbt0p3tensv1.setText(rs.getString(2)); lbt0p3diembt1.setText(rs.getString(3));}
4635         if(i==2){lbt0p3masv2.setText(rs.getString(1)); lbt0p3tensv2.setText(rs.getString(2)); lbt0p3diembt2.setText(rs.getString(3));}
4636         if(i==3){lbt0p3masv3.setText(rs.getString(1)); lbt0p3tensv3.setText(rs.getString(2)); lbt0p3diembt3.setText(rs.getString(3));}
4637         i++;
4638     }
4639     cnt.close();
4640 }
4641 catch(Exception e)
4642 {
4643     JOptionPane.showMessageDialog(this, "Tài top 3 thất bại! \n Lỗi: "+e);
4644 }
4645 }
4646
4647 public void loadbang()
4648 {
4649
4650     if(tbnhanvien.getSelectedIndex()==0)
4651     {
4652         int tt= tbthongtin.getSelectedRow();
4653         if(tt<0)return;
4654         txtgvmasv.setText(tbthongtin.getValueAt(tt,0).toString());
4655         txtgvstensv.setText(tbthongtin.getValueAt(tt,1).toString());
4656         txtgvdiemtoan.setText(tbthongtin.getValueAt(tt,2).toString());
4657         txtgvdiemtin.setText(tbthongtin.getValueAt(tt,3).toString());
4658         txtgvdiemanh.setText(tbthongtin.getValueAt(tt,4).toString());
4659         try {
4660             Class.forName(dvsq);
4661             Connection cnt = DriverManager.getConnection(urldb);
4662             String sqlquery = "select hinhnh from sinhvien where masv like '"+tbthongtin.getValueAt(tt, 0).toString()+"'";
4663             Statement sm = cnt.createStatement();
4664             ResultSet rs = sm.executeQuery(sqlquery);
4665             while(rs.next())
4666             {
4667                 if(rs.getString(1).equals("/sof203_assignment1_ps04271/hinhnh/noimage.png"))
4668                     {lbgvnhinh.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/hinhnh/noimage.png")));}
4669                 else {lbgvnhinh.setIcon(load(rs.getString(1), 100, 134));}
4670                 break;
4671             }
4672             cnt.close();
4673         }
4674         catch(Exception a){JOptionPane.showMessageDialog(this, "Lỗi: "+a);}
4675         return;
4676     }
4677
4678     if(tbnhanvien.getSelectedIndex()==1)
4679     {
4680         int tt= tbthongtin.getSelectedRow();
4681         if(tt<0)return;
4682         txtdtmasv.setText(tbthongtin.getValueAt(tt, 0).toString());
4683         txtdtstensv.setText(tbthongtin.getValueAt(tt, 1).toString());
4684         if(tbthongtin.getValueAt(tt, 2).toString().equals("Nam")){rbdtnam.setSelected(true);} else {rbdtnu.setSelected(true);}
4685
4686         String sinhnhat = tbthongtin.getValueAt(tt, 3).toString();
4687         txtdtngaysinh.setText(sinhnhath.substring(0, 2));

```

```

4688 txtDttHangsinh.setText(sinhnhathat.substring(3, 5));
4689 txtDtnamsinh.setText(sinhnhathat.substring(6, 10));
4690
4691 txtDtcMndsv.setText(tbthongtin.getValueAt(tt, 4).toString());
4692 txtDtemailsv.setText(tbthongtin.getValueAt(tt, 5).toString());
4693 txtDtdiachisv.setText(tbthongtin.getValueAt(tt, 6).toString());
4694 String nhaphoc = tbthongtin.getValueAt(tt, 3).toString();
4695 txtDtingaynhaphoc.setText(sinhnhathat.substring(0, 2));
4696 txtDttHangnhaphoc.setText(sinhnhathat.substring(3, 5));
4697 txtDtnamnhaphoc.setText(sinhnhathat.substring(6, 10));
4698 try {
4699     Class.forName(dvsq);
4700     Connection cnt = DriverManager.getConnection(urldb);
4701     String sqlquery = "select hinhanh from sinhvien where masv like '"+tbthongtin.getValueAt(tt, 0).toString()+"'";
4702     Statement sm = cnt.createStatement();
4703     ResultSet rs = sm.executeQuery(sqlquery);
4704     while(rs.next())
4705     {
4706         if(rs.getString(1).equals("/sof203_assignment1_ps04271/hinhanh/noimage.png"))
4707             {lbhinhdt.setIcon(new javax.swing.ImageIcon(getClass().getResource("/sof203_assignment1_ps04271/hinhanh/noimage.png")));}
4708         else {lbhinhdt.setIcon(load(rs.getString(1), 100, 134));}
4709         break;
4710     }
4711     cnt.close();
4712 }
4713 catch(Exception a){JOptionPane.showMessageDialog(this, "Lỗi: "+a);}
4714 return;
4715 }
4716
4717 if(tbnhanvien.getSelectedIndex()==2)
4718 {
4719     int tt= tbthongtin.getSelectedRow();
4720     if(tt<0)return;
4721     txtlmalop.setText(tbthongtin.getValueAt(tt, 0).toString());
4722     txtllop.setText(tbthongtin.getValueAt(tt, 1).toString());
4723     txtlmagv.setText(tbthongtin.getValueAt(tt, 2).toString());
4724     cbllkhoi.setSelectedItem(tbthongtin.getValueAt(tt, 3).toString());
4725     txtlnienkhoa.setText(tbthongtin.getValueAt(tt, 4).toString());
4726 }
4727 }
4728 public void loadbangtutree()
4729 {
4730
4731     if(loaitaikkhoan==2 || tbnhanvien.getSelectedIndex()==1 || tbnhanvien.getSelectedIndex()==2 )
4732     {
4733
4734
4735     try {
4736         String tt = TdanhSachlop.getSelectionPath().toString();
4737         Class.forName(dvsq);
4738         Connection cnt = DriverManager.getConnection(urldb);
4739         String sqlquery = "select s.masv,s.ten,(case when s.gioitinh=0 then 'Nam' else N'Nữ' end),convert(varchar,s.ngaysinh,103),s.cmdnd,s.email,s.diachi,convert(varchar,s.ngaynhaphoc,103) from "
4740             + "diem d join sinhvien s on d.masv = s.masv "
4741             + "join lop l on d.malop= l.malop "
4742             + "where l.lop like SUBSTRING('"+tt+"',31,charindex('J','"+tt+"')-31) and l.nienkhoa like SUBSTRING('"+tt+"',11,9)";
4743         Statement sm = cnt.createStatement();
4744         ResultSet rs = sm.executeQuery(sqlquery);
4745         if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(this, "Chưa có sinh viên trong lớp này");return;}
4746         bang = new DefaultTableModel(title,0);
4747         Vector sv = null;
4748         if(rs.isBeforeFirst() == false){return;}
4749         while(rs.next())
4750         {
4751             sv = new Vector();
4752             sv.add(rs.getString(1));
4753             sv.add(rs.getString(2));
4754             sv.add(rs.getString(3));
4755             sv.add(rs.getString(4));
4756             sv.add(rs.getString(5));
4757             sv.add(rs.getString(6));

```

```

4758         sv.add(rs.getString(7));
4759         sv.add(rs.getString(8));
4760
4761         bang.addRow(sv);
4762
4763     }
4764     tbthongtin.setModel(bang);
4765     tbthongtin.setRowSelectionInterval(0, 0);
4766     cnt.close();
4767     loadtop3();
4768     loadbang();
4769     btnlopthemsv.setEnabled(false);
4770     btnlopxoasv.setEnabled(true);
4771     checkchonlop=0;
4772
4773 }
4774 catch(Exception a){return;}
4775 }
4776
4777     if((loaitaikkhoan==1 || loaitaikkhoan==0) && btnhanvien.getSelectedIndex()==0 )
4778     {
4779
4780     try {
4781         String tt = Tdanh sachlop.getSelectionPath().toString();
4782         String q = " ";
4783         if(this.loaitaikkhoan==1){q=" and l.manv like '"+this.manv+"' ";}
4784         Class.forName(dvsq);
4785         Connection cnt = DriverManager.getConnection(urldb);
4786         String sqlquery = "select s.masv, s.ten, d.diemtoan, d.diemtin, d.diemanh, substring(convert(varchar,(d.diemtoan + d.diemtin + d.diemanh)/3),0,4) as dtb from "
4787             + "diem d join sinhvien s on d.masv = s.masv "
4788             + "join lop l on d.malop= l.malop "
4789             + "where d.malop like (select malop from lop where lop like SUBSTRING('"+tt+"',31,charindex('l','"+tt+"')-31) and nienkhoa like SUBSTRING('"+tt+"',11,9)) "+q;
4790         Statement sm = cnt.createStatement();
4791         ResultSet rs = sm.executeQuery(sqlquery);
4792         if(rs.isBeforeFirst() == false){JOptionPane.showMessageDialog(this, "Chưa có học sinh!!!");return;}
4793         String title1[]={"Mã Sinh Viên","Tên Sinh Viên","Điểm Toán","Điểm Tin","Điểm Anh","Điểm Trung Bình"};
4794         bang = new DefaultTableModel(title1,0);
4795         Vector sv = null;
4796         if(rs.isBeforeFirst() == false){return;}
4797         while(rs.next())
4798         {
4799             sv = new Vector();
4800             sv.add(rs.getString(1));
4801             sv.add(rs.getString(2));
4802             sv.add(rs.getFloat(3));
4803             sv.add(rs.getFloat(4));
4804             sv.add(rs.getFloat(5));
4805             sv.add(rs.getFloat(6));
4806             bang.addRow(sv);
4807         }
4808     }
4809     tbthongtin.setModel(bang);
4810     tbthongtin.setRowSelectionInterval(0, 0);
4811     cnt.close();
4812     loadtop3();
4813     loadbang();
4814
4815 }
4816 catch(Exception a){JOptionPane.showMessageDialog(this, "Lỗi: "+a);}
4817 }
4818 }
4819
4820 public void quyenchinhlop(boolean a)
4821 {
4822     txtlmalop.setEditable(a);
4823     txtlmagv.setEditable(a);
4824     txtllop.setEditable(a);
4825     txtlnienkhoa.setEditable(a);
4826     cbkloi.setEnabled(a);
4827

```

```

4828
4829
4830 }
4831
4832 public void quyen(boolean a)
4833 {
4834     jMenuItem.setEnabled(a);
4835     btnhanvien.setEnabledAt(0, a);
4836     btnhanvien.setEnabledAt(1, a);
4837     btnhanvien.setEnabledAt(2, a);
4838     btndoimatkhu.setEnabled(a);
4839     btngvsuadiem.setEnabled(a);
4840     btngvxoadiem.setEnabled(a);
4841     btlnsualop.setEnabled(a);
4842     btlnlthem.setEnabled(a);
4843     btlnlxaolop.setEnabled(a);
4844     btndtsuasv.setEnabled(a);
4845     btndtthemsv.setEnabled(a);
4846     btndtxoasv.setEnabled(a);
4847     btngvxuatexcel.setEnabled(a);
4848     btlnsvchuaclop.setEnabled(a);
4849     btndthienaclop.setEnabled(a);
4850     btngvtimkiem.setEnabled(a);
4851     btndtimkiem.setEnabled(a);
4852     btndtxuatexcel.setEnabled(a);
4853     btngvguidiemlsv.setEnabled(a);
4854     btngvguidiemnhieusv.setEnabled(a);
4855     btndtguimail.setEnabled(a);
4856     btngguimail.setEnabled(a);
4857 }
4858 Timer hh;
4859 public void loadten()
4860 {
4861     lbtennv.setText(this.tennv);
4862     Date today=new Date(System.currentTimeMillis());
4863     SimpleDateFormat timeFormat= new SimpleDateFormat("dd/MM/yyyy");
4864     String s=timeFormat.format(today.getTime());
4865     lbngay.setText(s);
4866     hh = new Timer(1000, gio);
4867     hh.start();
4868 }
4869
4870 public void dungpopup()
4871 {
4872     JMenuItem doihinh = new JMenuItem("Đổi hình");
4873     JMenuItem xoahinh = new JMenuItem("Xóa hình");
4874     puhinh.add(doihinh);
4875     puhinh.add(xoahinh);
4876
4877     doihinh.addActionListener(new java.awt.event.ActionListener() {
4878         public void actionPerformed(java.awt.event.ActionEvent evt) {
4879             actiondoihinh(doihinh);
4880         }
4881     });
4882
4883     xoahinh.addActionListener(new java.awt.event.ActionListener() {
4884         public void actionPerformed(java.awt.event.ActionEvent evt) {
4885             actionxoahinh();
4886         }
4887     });
4888
4889     JMenuItem doihinhnv = new JMenuItem("Đổi hình");
4890     JMenuItem xoahinhnv = new JMenuItem("Xóa hình");
4891     puhinhnv.add(doihinhnv);
4892     puhinhnv.add(xoahinhnv);
4893
4894     doihinhnv.addActionListener(new java.awt.event.ActionListener() {
4895         public void actionPerformed(java.awt.event.ActionEvent evt) {
4896             actiondoihinhnv(doihinh);
4897         }
4898     });

```

```

4898     });
4899
4900     xoahinhnv.addActionListener(new java.awt.event.ActionListener() {
4901     public void actionPerformed(java.awt.event.ActionEvent evt) {
4902         actionxoahinhnv();
4903     }
4904     });
4905
4906
4907 }
4908
4909
4910
4911
4912
4913 public Icon load(String linkImage, int k, int m) {
4914 try {
4915     BufferedImage image = ImageIO.read(new File(linkImage));
4916
4917     int x = k;
4918     int y = m;
4919     int ix = image.getWidth();
4920     int iy = image.getHeight();
4921     int dx = 0, dy = 0;
4922
4923     if (x / y > ix / iy) {
4924         dy = y;
4925         dx = dy * ix / iy;
4926     } else {
4927         dx = x;
4928         dy = dx * iy / ix;
4929     }
4930
4931     return new ImageIcon(image.getScaledInstance(dx, dy,
4932         image.SCALE_SMOOTH));
4933 } catch (Exception e) {return null;}
4934
4935
4936
4937 }
4938
4939 ActionListener gio = new ActionListener() {
4940     @Override
4941     public void actionPerformed(ActionEvent e)
4942     {
4943         Date today=new Date(System.currentTimeMillis());
4944         SimpleDateFormat timeFormat= new SimpleDateFormat("hh:mm:ss");
4945         String s=timeFormat.format(today.getTime());
4946         lbgio.setText(s);
4947     }
4948 };
4949
4950 public void actiondoihinh(JMenuItem doihinh)
4951 {
4952     try {
4953         JFileChooser savefile = new JFileChooser();
4954         int result = savefile.showSaveDialog(doiinh);
4955         if(result != JFileChooser.APPROVE_OPTION){return;}
4956         String link = savefile.getSelectedFile().toString();
4957         if((load(link, 100, 134))==null){OptionPane.showMessageDialog(this, "Hình ảnh không hợp lệ. Lưu thất bại!!!");return;}
4958         Class.forName(dvsq);
4959         Connection cnt = DriverManager.getConnection(urldb);
4960         Statement sm = cnt.createStatement();
4961         sm.executeUpdate("update sinhvien set hinhanh = N'"+link+" where masv like '"+txttdmasv.getText()+"'");
4962         JOptionPane.showMessageDialog(this, "Lưu thành công");
4963         loaddbdt();loadbang();cnt.close();
4964     }
4965     catch(Exception h){OptionPane.showMessageDialog(this, "Hình ảnh không hợp lệ. Lưu thất bại!!!");}
4966
4967

```

```

4968     }
4969
4970     public void actionxoahinh()
4971     {
4972         try {
4973             Class.forName(dvsq);
4974             Connection cnt = DriverManager.getConnection(urldb);
4975             Statement sm = cnt.createStatement();
4976             sm.executeUpdate("update sinhvien set hinhanh = N'/sof203_assignment1_ps04271/hinhanh/noimage.png' where masv like '"+txtidmasv.getText()+"'");
4977             JOptionPane.showMessageDialog(this, "Xóa thành công"); cnt.close();
4978             loaddbdt();loadbang();cnt.close();
4979         }
4980         catch(Exception h){JOptionPane.showMessageDialog(this, "Xóa thất bại!!!");}
4981     }
4982
4983
4984     public void actiondoihinhnv(JMenuItem doihinhnv)
4985     {
4986         try {
4987             JFileChooser savefile = new JFileChooser();
4988             int result = savefile.showSaveDialog(doihinhnv);
4989             if(result != JFileChooser.APPROVE_OPTION){return;}
4990             String link = savefile.getSelectedFile().toString();
4991             if((load(link, 100, 134))==null){JOptionPane.showMessageDialog(this, "Hình ảnh không hợp lệ. Lưu thất bại!!!");return;}
4992             Class.forName(dvsq);
4993             Connection cnt = DriverManager.getConnection(urldb);
4994             Statement sm = cnt.createStatement();
4995             sm.executeUpdate("update nhanvien set hinhanh = N'"+link+" where manv like '"+txtqlnvma.getText()+"'");
4996             JOptionPane.showMessageDialog(this, "Lưu thành công");cnt.close();
4997             loaddbdt();loadbang();
4998         }
4999         catch(Exception h){JOptionPane.showMessageDialog(this, "Hình ảnh không hợp lệ. Lưu thất bại!!!");}
5000     }
5001
5002     }
5003
5004     public void actionxoahinhnv()
5005     {
5006         try {
5007             Class.forName(dvsq);
5008             Connection cnt = DriverManager.getConnection(urldb);
5009             Statement sm = cnt.createStatement();
5010             sm.executeUpdate("update nhanvien set hinhanh = N'/sof203_assignment1_ps04271/hinhanh/noimage.png' where manv like '"+txtqlnvma.getText()+"'");
5011             JOptionPane.showMessageDialog(this, "Xóa thành công");cnt.close();
5012             loaddbdt();loadbang();
5013         }
5014         catch(Exception h){JOptionPane.showMessageDialog(this, "Xóa thất bại!!!");}
5015     }
5016
5017
5018     public void xuatexcel()
5019     {
5020         int dong = tbthongtin.getRowCount();
5021         if(dong<=0){return;}
5022         try
5023         {
5024             JFileChooser savefile = new JFileChooser();
5025             int result = savefile.showSaveDialog(btngvxuatexcel);
5026             if(result != JFileChooser.APPROVE_OPTION){return;}
5027             File fileToSave = savefile.getCurrentDirectory();
5028             String link = fileToSave.getPath();
5029             String ten = savefile.getSelectedFile().getName();
5030             String linksave = link+"\"+ten+".xls";
5031
5032             WritableWorkbook workbook = Workbook.createWorkbook(new File(linksave));
5033             WritableSheet sheet = workbook.createSheet("Điểm", 0);
5034             sheet.addCell(new Label(0, 0, "Mã Sinh Viên"));
5035             sheet.addCell(new Label(1, 0, "Tên Sinh Viên"));
5036             sheet.addCell(new Label(2, 0, "Điểm Toán"));
5037             sheet.addCell(new Label(3, 0, "Điểm Tin"));

```



```

5038 sheet.addCell(new Label(4, 0, "Điểm Anh"));
5039 sheet.addCell(new Label(5, 0, "Điểm Trung Bình"));
5040
5041
5042 for(int i =1; i<=dong;i++)
5043 {
5044     sheet.addCell(new Label(0, i, tbthongtin.getValueAt(i-1, 0).toString()));
5045     sheet.addCell(new Label(1, i, tbthongtin.getValueAt(i-1, 1).toString()));
5046     sheet.addCell(new Number(2, i, (Float) tbthongtin.getValueAt(i-1, 2)));
5047     sheet.addCell(new Number(3, i, (Float) tbthongtin.getValueAt(i-1, 3)));
5048     sheet.addCell(new Number(4, i, (Float) tbthongtin.getValueAt(i-1, 4)));
5049     sheet.addCell(new Number(5, i, (Float)tbthongtin.getValueAt(i-1, 5)));
5050 }
5051 workbook.write();
5052 workbook.close();
5053 JOptionPane.showMessageDialog(this, "Xuất file thành công!!!");
5054 }
5055 catch(Exception e){JOptionPane.showMessageDialog(this, "Lỗi: "+e);}
5056
5057 }
5058
5059 public void xuatexceldt()
5060 {
5061     int dong = tbthongtin.getRowCount();
5062     if(dong<=0){return;}
5063     try
5064     {
5065         JFileChooser savefile = new JFileChooser();
5066         int result = savefile.showSaveDialog(btingvxuatexcel);
5067         if(result != JFileChooser.APPROVE_OPTION){return;}
5068         File fileToSave = savefile.getCurrentDirectory();
5069         String link = fileToSave.getPath();
5070         String ten = savefile.getSelectedFile().getName();
5071         String linksave = link+"\\ "+ten+".xls";
5072
5073         WritableWorkbook workbook = Workbook.createWorkbook(new File(linksave));
5074         WritableSheet sheet = workbook.createSheet("Sinh Viên", 0);
5075         sheet.addCell(new Label(0, 0, "Mã Sinh Viên"));
5076         sheet.addCell(new Label(1, 0, "Tên Sinh Viên"));
5077         sheet.addCell(new Label(2, 0, "Giới tính"));
5078         sheet.addCell(new Label(3, 0, "Ngày sinh"));
5079         sheet.addCell(new Label(4, 0, "CMND"));
5080         sheet.addCell(new Label(5, 0, "Email"));
5081         sheet.addCell(new Label(6, 0, "Địa chỉ"));
5082         sheet.addCell(new Label(7, 0, "Ngày Nhập học"));
5083
5084         for(int i =1; i<=dong;i++)
5085         {
5086             sheet.addCell(new Label(0, i, tbthongtin.getValueAt(i-1, 0).toString()));
5087             sheet.addCell(new Label(1, i, tbthongtin.getValueAt(i-1, 1).toString()));
5088             sheet.addCell(new Label(2, i, tbthongtin.getValueAt(i-1, 2).toString()));
5089             sheet.addCell(new Label(3, i, tbthongtin.getValueAt(i-1, 3).toString()));
5090             sheet.addCell(new Label(4, i, tbthongtin.getValueAt(i-1, 4).toString()));
5091             sheet.addCell(new Label(5, i, tbthongtin.getValueAt(i-1, 5).toString()));
5092             sheet.addCell(new Label(6, i, tbthongtin.getValueAt(i-1, 6).toString()));
5093             sheet.addCell(new Label(7, i, tbthongtin.getValueAt(i-1, 7).toString()));
5094         }
5095         workbook.write();
5096         workbook.close();
5097         JOptionPane.showMessageDialog(this, "Xuất file thành công!!!");
5098     }
5099     catch(Exception e){JOptionPane.showMessageDialog(this, "Lỗi: "+e);}
5100
5101 }
5102
5103 public void loadbdbaotao(String tentk)
5104 {
5105     try
5106     {
5107         Class.forName(dvsq);

```

```

5108 Connection cnt = DriverManager.getConnection(urldb);
5109 String sqlquery = "select nienkhoa from lop group by nienkhoa";
5110 Statement sm = cnt.createStatement();
5111 ResultSet rs = sm.executeQuery(sqlquery);
5112 if(rs.isBeforeFirst() == false){OptionPane.showMessageDialog(this, "Chưa có lớp");return;}
5113
5114 DefaultMutableTreeNode lop = new DefaultMutableTreeNode("Các lớp");
5115
5116 while(rs.next()){
5117     DefaultMutableTreeNode nienkhoa = new DefaultMutableTreeNode(rs.getString(1).toString());
5118     Statement sm2 = cnt.createStatement();
5119     ResultSet rs2 = sm2.executeQuery("select khoi from lop where nienkhoa like '"+rs.getString(1)+"' group by khoi");
5120     while(rs2.next())
5121     {
5122         DefaultMutableTreeNode lop1 = new DefaultMutableTreeNode("Khối "+rs2.getString(1));
5123         Statement sm1 = cnt.createStatement();
5124         ResultSet rs1 = sm1.executeQuery("select lop from lop where khoi='"+rs2.getInt(1)+"' and nienkhoa like '"+rs.getString(1)+"' group by lop");
5125         while(rs1.next())
5126         {
5127             DefaultMutableTreeNode lop2 = new DefaultMutableTreeNode(rs1.getString(1));
5128             lop1.add(lop2);
5129         }
5130         nienkhoa.add(lop1);
5131     }
5132     lop.add(nienkhoa);
5133 }
5134
5135 DefaultTreeModel listtree = new DefaultTreeModel(lop);
5136 Tdanhhsachlop.setModel(listtree);
5137 cnt.close();
5138
5139 }
5140
5141 catch(Exception a){OptionPane.showMessageDialog(jFrameDangNhap, "Lỗi: "+a);}
5142 }
5143
5144 public void loadbtttnv()
5145 {
5146
5147 try{
5148     Class.forName(dvsql);
5149     Connection cnt = DriverManager.getConnection(urldb);
5150     String sqlquery = "select manv ,ten, loaitaikhoan, (case when loaitaikhoan=0 then N'Admin' when loaitaikhoan=1 then N'Giáo Viên' when loaitaikhoan=2 then N'Đào Tạo' end) as cv , email from nhanvien";
5151     Statement sm = cnt.createStatement();
5152     ResultSet rs = sm.executeQuery(sqlquery);
5153     String [] title2 = {"Mã nhân viên","Tên nhân viên","Loại tài khoản","Tên Loại","Email"};
5154     DefaultTableModel bang1 = new DefaultTableModel(title2,0);
5155     Vector sv = null;
5156     if(rs.isBeforeFirst() == false){OptionPane.showMessageDialog(jFramethongtinnhanvien, "Chưa có nhân viên");return;}
5157     while(rs.next())
5158     {
5159         sv = new Vector();
5160         sv.add(rs.getString(1));
5161         sv.add(rs.getString(2));
5162         sv.add(rs.getInt(3));
5163         sv.add(rs.getString(4));
5164         sv.add(rs.getString(5));
5165         bang1.addRow(sv);
5166     }
5167     tbqInv.setModel(bang1);
5168     tbqInv.setRowSelectionInterval(0, 0);
5169     cnt.close();
5170 }
5171 catch(Exception a){OptionPane.showMessageDialog(this, "Lỗi: "+a);}
5172 }
5173
5174 public void chonfiledinhkem()
5175 {
5176     JFileChooser openfile = new JFileChooser();
5177     int result = openfile.showOpenDialog(btngmdtfiledinhkem);

```

```

5178         if(result != JFileChooser.APPROVE_OPTION){return;}
5179         linkdinhkem[sfile] = openfile.getSelectedFile().toString();
5180         if(lbgmdtfiledinhkem.getText().isEmpty()){lbgmdtfiledinhkem.setText(openfile.getSelectedFile().getName());}
5181         else {lbgmdtfiledinhkem.setText(lbgmdtfiledinhkem.getText()+" "+openfile.getSelectedFile().getName());}
5182         sfile++;
5183     }
5184
5185     public void chonfiledinhkemall()
5186     {
5187         JFileChooser openfile = new JFileChooser();
5188         int result = openfile.showOpenDialog(btnguifile);
5189         if(result != JFileChooser.APPROVE_OPTION){return;}
5190         linkdinhkemall[slink] = openfile.getSelectedFile().toString();
5191         if(lbtenfile.getText().isEmpty()){lbtenfile.setText(openfile.getSelectedFile().getName());}
5192         else {lbtenfile.setText(lbtenfile.getText()+" "+openfile.getSelectedFile().getName());}
5193         slink++;
5194     }
5195
5196     public void quyentext(boolean a)
5197     {
5198         /*Dao tao*/
5199         txtgvmassv.setEditable(a);
5200         txtgvtensv.setEditable(a);
5201         txtgvdiemanh.setEditable(a);
5202         txtgvdiemtin.setEditable(a);
5203         txtgvdiemtoan.setEditable(a);
5204
5205
5206         txtdtmasv.setEditable(a);
5207         txtdttensv.setEditable(a);
5208         txtdtcmndsv.setEditable(a);
5209         txtdtngaysinh.setEditable(a);
5210         txtdthangsinh.setEditable(a);
5211         txtdtnamsinh.setEditable(a);
5212         txtdtemailsv.setEditable(a);
5213         txtdtdiachisv.setEditable(a);
5214         txtdtngaynhaphoc.setEditable(a);
5215         txtdthangnhaphoc.setEditable(a);
5216         txtdtnamnhaphoc.setEditable(a);
5217         rbdtnam.setEnabled(a);
5218         rbdtnu.setEnabled(a);
5219
5220         txtlmalop.setEditable(a);
5221         txtllop.setEditable(a);
5222         txtlmagv.setEditable(a);
5223         txtlnienkhoa.setEditable(a);
5224
5225     }
5226
5227     public void quyentextdt(boolean a)
5228     {
5229         txtdtmasv.setEditable(a);
5230         txtdttensv.setEditable(a);
5231         txtdtcmndsv.setEditable(a);
5232         txtdtngaysinh.setEditable(a);
5233         txtdthangsinh.setEditable(a);
5234         txtdtnamsinh.setEditable(a);
5235         txtdtemailsv.setEditable(a);
5236         txtdtdiachisv.setEditable(a);
5237         txtdtngaynhaphoc.setEditable(a);
5238         txtdthangnhaphoc.setEditable(a);
5239         txtdtnamnhaphoc.setEditable(a);
5240         rbdtnam.setEnabled(a);
5241         rbdtnu.setEnabled(a);
5242     }
5243
5244     public String[] laymangemail(String chu)
5245     {
5246         /*Đây là function trả về mảng email*/
5247         String[] chuoi=new String[1000];

```

```

5248 String e = chu;
5249 int t=0;
5250 int t2=0;
5251 int r=0;
5252 for(int i=0;r!=-1 ;i++)
5253 {
5254     r = e.indexOf(";", r);
5255     if(r==1){chuoit[t]=e.substring(t2);break;}
5256     if(e.substring(t2, r).equals("")==false)
5257     {
5258         chuoit[t]=e.substring(t2, r);
5259         t+=1;
5260     }
5261     r+=1;
5262     t2=r;
5263 }
5264 String[] chuoicuoi = new String[t+1];
5265 for(int i=0; i<=t;i++)
5266 {
5267     chuoicuoi[i]=chuoit[i];
5268 }
5269 return chuoicuoi;
5270 }
5271
5272
5273
5274 /**
5275  * @param args the command line arguments
5276  */
5277 public static void main(String args[]) {
5278     /* Set the Nimbus look and feel */
5279     //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
5280     /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
5281      * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
5282      */
5283     try {
5284         for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
5285             if ("Nimbus".equals(info.getName())) {
5286                 javax.swing.UIManager.setLookAndFeel(info.getClassName());
5287                 break;
5288             }
5289         }
5290     } catch (ClassNotFoundException ex) {
5291         java.util.logging.Logger.getLogger(QuanLySinhVien.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
5292     } catch (InstantiationException ex) {
5293         java.util.logging.Logger.getLogger(QuanLySinhVien.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
5294     } catch (IllegalAccessException ex) {
5295         java.util.logging.Logger.getLogger(QuanLySinhVien.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
5296     } catch (javax.swing.UnsupportedLookAndFeelException ex) {
5297         java.util.logging.Logger.getLogger(QuanLySinhVien.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
5298     }
5299     //</editor-fold>
5300
5301     /* Create and display the form */
5302     java.awt.EventQueue.invokeLater(new Runnable() {
5303         public void run() {
5304             new QuanLySinhVien().setVisible(true);
5305         }
5306     });
5307 }
5308
5309 // Variables declaration - do not modify
5310 private javax.swing.JLabel BackgroundDangNhap;
5311 private javax.swing.JLabel PanelDangNhap;
5312 private javax.swing.JTree Tdanh sachlop;
5313 private javax.swing.JButton btndangnhap;
5314 private javax.swing.JButton btndmkdoimk;
5315 private javax.swing.JButton btndoimatkhu;
5316 private javax.swing.JButton btndtdong;
5317 private javax.swing.JButton btndtguimail;

```

```
5318 private javax.swing.JButton btndthiencaolop;
5319 private javax.swing.JButton btndtsuasv;
5320 private javax.swing.JButton btndthemsu;
5321 private javax.swing.JButton btndttimkiem;
5322 private javax.swing.JButton btndttkdong;
5323 private javax.swing.JButton btndttkim;
5324 private javax.swing.JButton btndtxoasv;
5325 private javax.swing.JButton btndtxuatexcel;
5326 private javax.swing.JButton btngmdong;
5327 private javax.swing.JButton btngmdtdong;
5328 private javax.swing.JButton btngmdtfileinhkem;
5329 private javax.swing.JButton btngmdtgui;
5330 private javax.swing.JButton btngmgvlsvdong;
5331 private javax.swing.JButton btngmgvlsvgui;
5332 private javax.swing.JButton btngmgvnhieusvdong;
5333 private javax.swing.JButton btngmgvnhieusvgui;
5334 private javax.swing.JButton btngui;
5335 private javax.swing.JButton btnguifile;
5336 private javax.swing.JButton btnguimail;
5337 private javax.swing.JButton btngvdong;
5338 private javax.swing.JButton btngvguidiem1sv;
5339 private javax.swing.JButton btngvguidiemnhieusv;
5340 private javax.swing.JButton btngvsuadiem;
5341 private javax.swing.JButton btngvtimkiem;
5342 private javax.swing.JButton btngvtkdong;
5343 private javax.swing.JButton btngvtkim;
5344 private javax.swing.JButton btngvxoadiem;
5345 private javax.swing.JButton btngvxuatexcel;
5346 private javax.swing.JButton btndong;
5347 private javax.swing.JButton btnlopthemsu;
5348 private javax.swing.JButton btnlopxoasv;
5349 private javax.swing.JButton btnlsualop;
5350 private javax.swing.JButton btnlsvchuacolop;
5351 private javax.swing.JButton btnlthem;
5352 private javax.swing.JButton btnlxoalop;
5353 private javax.swing.JButton btnqlmkdoi;
5354 private javax.swing.JButton btnqlmkdong;
5355 private javax.swing.JButton btnqlnvdong;
5356 private javax.swing.JButton btnqlnvthaydoi;
5357 private javax.swing.JButton btnqlnvxo;
5358 private javax.swing.JButton btnqmkdong;
5359 private javax.swing.JButton btnqmkgui;
5360 private javax.swing.JButton btnresetguimail;
5361 private javax.swing.JButton btntaotktao;
5362 private javax.swing.JButton btntaotkthoat;
5363 private javax.swing.JComboBox<String> cbdtmienkhoa;
5364 private javax.swing.JComboBox<String> cbgvtknam;
5365 private javax.swing.JComboBox<String> cbgvtkpheptloan;
5366 private javax.swing.JComboBox<String> cbllkhai;
5367 private javax.swing.JComboBox<String> cbllthemmalop;
5368 private javax.swing.JComboBox<String> cbllxoamalop;
5369 private javax.swing.JComboBox<String> cbqlmktaikhoan;
5370 private javax.swing.JComboBox<String> cbqlnvchucvu;
5371 private javax.swing.JComboBox<String> cbtaoloai;
5372 private javax.swing.JButton jButton4;
5373 private javax.swing.JFrame jFrameDangNhap;
5374 private javax.swing.JFrame jFramedoimatkhai;
5375 private javax.swing.JFrame jFramedttimkiem;
5376 private javax.swing.JFrame jFrameguimailall;
5377 private javax.swing.JFrame jFrameguimaildt;
5378 private javax.swing.JFrame jFrameguimailgv1sv;
5379 private javax.swing.JFrame jFrameguimailgvnhieusv;
5380 private javax.swing.JFrame jFramegvtimkiem;
5381 private javax.swing.JFrame jFramequanlymk;
5382 private javax.swing.JFrame jFramequennmatkhau;
5383 private javax.swing.JFrame jFrameataotaikhoan;
5384 private javax.swing.JFrame jFramethongtinnhanvien;
5385 private javax.swing.JLabel jLabel1;
5386 private javax.swing.JLabel jLabel10;
5387 private javax.swing.JLabel jLabel11;
```

```
5388 private javax.swing.JLabel jLabel12;
5389 private javax.swing.JLabel jLabel13;
5390 private javax.swing.JLabel jLabel14;
5391 private javax.swing.JLabel jLabel15;
5392 private javax.swing.JLabel jLabel16;
5393 private javax.swing.JLabel jLabel17;
5394 private javax.swing.JLabel jLabel18;
5395 private javax.swing.JLabel jLabel19;
5396 private javax.swing.JLabel jLabel2;
5397 private javax.swing.JLabel jLabel20;
5398 private javax.swing.JLabel jLabel21;
5399 private javax.swing.JLabel jLabel22;
5400 private javax.swing.JLabel jLabel23;
5401 private javax.swing.JLabel jLabel24;
5402 private javax.swing.JLabel jLabel25;
5403 private javax.swing.JLabel jLabel26;
5404 private javax.swing.JLabel jLabel27;
5405 private javax.swing.JLabel jLabel28;
5406 private javax.swing.JLabel jLabel29;
5407 private javax.swing.JLabel jLabel3;
5408 private javax.swing.JLabel jLabel30;
5409 private javax.swing.JLabel jLabel31;
5410 private javax.swing.JLabel jLabel32;
5411 private javax.swing.JLabel jLabel33;
5412 private javax.swing.JLabel jLabel34;
5413 private javax.swing.JLabel jLabel35;
5414 private javax.swing.JLabel jLabel36;
5415 private javax.swing.JLabel jLabel37;
5416 private javax.swing.JLabel jLabel38;
5417 private javax.swing.JLabel jLabel39;
5418 private javax.swing.JLabel jLabel4;
5419 private javax.swing.JLabel jLabel40;
5420 private javax.swing.JLabel jLabel41;
5421 private javax.swing.JLabel jLabel42;
5422 private javax.swing.JLabel jLabel43;
5423 private javax.swing.JLabel jLabel44;
5424 private javax.swing.JLabel jLabel45;
5425 private javax.swing.JLabel jLabel46;
5426 private javax.swing.JLabel jLabel47;
5427 private javax.swing.JLabel jLabel48;
5428 private javax.swing.JLabel jLabel49;
5429 private javax.swing.JLabel jLabel5;
5430 private javax.swing.JLabel jLabel50;
5431 private javax.swing.JLabel jLabel51;
5432 private javax.swing.JLabel jLabel52;
5433 private javax.swing.JLabel jLabel53;
5434 private javax.swing.JLabel jLabel54;
5435 private javax.swing.JLabel jLabel55;
5436 private javax.swing.JLabel jLabel56;
5437 private javax.swing.JLabel jLabel57;
5438 private javax.swing.JLabel jLabel58;
5439 private javax.swing.JLabel jLabel59;
5440 private javax.swing.JLabel jLabel6;
5441 private javax.swing.JLabel jLabel60;
5442 private javax.swing.JLabel jLabel61;
5443 private javax.swing.JLabel jLabel62;
5444 private javax.swing.JLabel jLabel63;
5445 private javax.swing.JLabel jLabel64;
5446 private javax.swing.JLabel jLabel65;
5447 private javax.swing.JLabel jLabel66;
5448 private javax.swing.JLabel jLabel67;
5449 private javax.swing.JLabel jLabel68;
5450 private javax.swing.JLabel jLabel69;
5451 private javax.swing.JLabel jLabel7;
5452 private javax.swing.JLabel jLabel70;
5453 private javax.swing.JLabel jLabel71;
5454 private javax.swing.JLabel jLabel72;
5455 private javax.swing.JLabel jLabel73;
5456 private javax.swing.JLabel jLabel74;
5457 private javax.swing.JLabel jLabel75;
```

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5458 private javax.swing.JLabel jLabel76;
5459 private javax.swing.JLabel jLabel77;
5460 private javax.swing.JLabel jLabel78;
5461 private javax.swing.JLabel jLabel79;
5462 private javax.swing.JLabel jLabel8;
5463 private javax.swing.JLabel jLabel80;
5464 private javax.swing.JLabel jLabel81;
5465 private javax.swing.JLabel jLabel82;
5466 private javax.swing.JLabel jLabel83;
5467 private javax.swing.JLabel jLabel84;
5468 private javax.swing.JLabel jLabel85;
5469 private javax.swing.JLabel jLabel86;
5470 private javax.swing.JLabel jLabel87;
5471 private javax.swing.JLabel jLabel88;
5472 private javax.swing.JLabel jLabel9;
5473 private javax.swing.JMenu jMenu1;
5474 private javax.swing.JMenu jMenu2;
5475 private javax.swing.JMenuItem jMenuItemAboutus;
5476 private javax.swing.JMenuBar jMenuBar1;
5477 private javax.swing.JMenuItem jMenuItem2;
5478 private javax.swing.JMenu jMenuDulieu;
5479 private javax.swing.JMenuItem jMenuItemPhuchoi;
5480 private javax.swing.JMenuItem jMenuItemQuanlyMatKhau;
5481 private javax.swing.JMenuItem jMenuItemSaoLuu;
5482 private javax.swing.JMenuItem jMenuItemTaotaiKhoan;
5483 private javax.swing.JMenuItem jMenuItemThongTinNhanVien;
5484 private javax.swing.JPanel jPanel1;
5485 private javax.swing.JPanel jPanel2;
5486 private javax.swing.JPanel jPanel3;
5487 private javax.swing.JPanel jPanel4;
5488 private javax.swing.JPanel jPanel5;
5489 private javax.swing.JPanel jPanel6;
5490 private javax.swing.JPanel jPanel7;
5491 private javax.swing.JPanel jPanel8;
5492 private javax.swing.JPanel jPanel9;
5493 private javax.swing.JScrollPane jScrollPane1;
5494 private javax.swing.JScrollPane jScrollPane2;
5495 private javax.swing.JScrollPane jScrollPane3;
5496 private javax.swing.JScrollPane jScrollPane4;
5497 private javax.swing.JScrollPane jScrollPane5;
5498 private javax.swing.JScrollPane jScrollPane6;
5499 private javax.swing.JScrollPane jScrollPane7;
5500 private javax.swing.JLabel lblDienQuenMK;
5501 private javax.swing.JLabel lblGio;
5502 private javax.swing.JLabel lblGMDTFileDinhKem;
5503 private javax.swing.JLabel lblGVHinh;
5504 private javax.swing.JLabel lblHinhDai;
5505 private javax.swing.JLabel lblNgay;
5506 private javax.swing.JLabel lblQLNinh;
5507 private javax.swing.JLabel lblTenFile;
5508 private javax.swing.JLabel lblTennv;
5509 private javax.swing.JLabel lblTop3DienTB1;
5510 private javax.swing.JLabel lblTop3DienTB2;
5511 private javax.swing.JLabel lblTop3DienTB3;
5512 private javax.swing.JLabel lblTop3MasV1;
5513 private javax.swing.JLabel lblTop3MasV2;
5514 private javax.swing.JLabel lblTop3MasV3;
5515 private javax.swing.JLabel lblTop3TensV1;
5516 private javax.swing.JLabel lblTop3TensV2;
5517 private javax.swing.JLabel lblTop3TensV3;
5518 private javax.swing.JPasswordField passDMKMKCu;
5519 private javax.swing.JPasswordField passDMKMKMoi;
5520 private javax.swing.JPasswordField passDMKNhapLai;
5521 private javax.swing.JPasswordField passTaotaiMatKhau;
5522 private javax.swing.JPasswordField passTaotaiNhapLaiMK;
5523 private javax.swing.JPanel pgiaoVien;
5524 private javax.swing.JPanel pndt;
5525 private javax.swing.JPanel pnlThem;
5526 private javax.swing.JPanel pnlXoa;
5527 private javax.swing.JPopupMenu puhinh;
```

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5528 private javax.swing.JPopupMenu puhinhv;
5529 private javax.swing.JRadioButton rbbee;
5530 private javax.swing.JRadioButton rbcc;
5531 private javax.swing.JRadioButton rbdtnam;
5532 private javax.swing.JRadioButton rbdtnu;
5533 private javax.swing.JRadioButton rbdttkcahai;
5534 private javax.swing.JRadioButton rbdttknam;
5535 private javax.swing.JRadioButton rbdttknu;
5536 private javax.swing.JRadioButton rbgmdtbee;
5537 private javax.swing.JRadioButton rbgmdtdec;
5538 private javax.swing.JTabbedPane tbnhanvien;
5539 private javax.swing.JTable tbqlnv;
5540 private javax.swing.JTable tbthongtin;
5541 private javax.swing.JButton txtnddangnhap;
5542 private javax.swing.JPasswordField txtndmatkhai;
5543 private javax.swing.JTextField txtndtaikhoan;
5544 private javax.swing.JButton txtndthoa;
5545 private javax.swing.JTextField txtndcmndsv;
5546 private javax.swing.JTextField txtnddiachisv;
5547 private javax.swing.JTextField txtndemailsv;
5548 private javax.swing.JTextField txtndmasv;
5549 private javax.swing.JTextField txtndnamnhaphoc;
5550 private javax.swing.JTextField txtndnamsinh;
5551 private javax.swing.JTextField txtndngaynhaphoc;
5552 private javax.swing.JTextField txtndngaysinh;
5553 private javax.swing.JTextField txtndtensv;
5554 private javax.swing.JTextField txtndthangnhaphoc;
5555 private javax.swing.JTextField txtndthangsinh;
5556 private javax.swing.JTextField txtndtkcmd;
5557 private javax.swing.JTextField txtndtkdiachi;
5558 private javax.swing.JTextField txtndtkemail;
5559 private javax.swing.JTextField txtndtkmasv;
5560 private javax.swing.JTextField txtndtknamnhaphoc;
5561 private javax.swing.JTextField txtndtknamsinh;
5562 private javax.swing.JTextField txtndtkngaynhaphoc;
5563 private javax.swing.JTextField txtndtkngaysinh;
5564 private javax.swing.JTextField txtndtktensv;
5565 private javax.swing.JTextField txtndtkthangnhaphoc;
5566 private javax.swing.JTextField txtndtkthangsinh;
5567 private javax.swing.JPasswordField txtgmdtnk;
5568 private javax.swing.JTextArea txtgmdtnoidung;
5569 private javax.swing.JTextField txtgmdtieu;
5570 private javax.swing.JTextField txtgmdttk;
5571 private javax.swing.JTextArea txtgmgvlsvghichu;
5572 private javax.swing.JPasswordField txtgmgvlsvmatkhai;
5573 private javax.swing.JTextField txtgmgvlsvtaikhoan;
5574 private javax.swing.JTextArea txtgmgvnhieusvghichu;
5575 private javax.swing.JPasswordField txtgmgvnhieusvmatkhai;
5576 private javax.swing.JTextField txtgmgvnhieusvtaikhoan;
5577 private javax.swing.JTextField txtguiden;
5578 private javax.swing.JTextField txtgvdienam;
5579 private javax.swing.JTextField txtgvdientin;
5580 private javax.swing.JTextField txtgvdientoan;
5581 private javax.swing.JTextField txtgvmassv;
5582 private javax.swing.JTextField txtgvtensv;
5583 private javax.swing.JTextField txtgvtkdiemsv;
5584 private javax.swing.JTextField txtgvtklopsz;
5585 private javax.swing.JTextField txtgvtkmasv;
5586 private javax.swing.JTextField txtgvtktensv;
5587 private javax.swing.JTextField txtllop;
5588 private javax.swing.JTextField txtlomagv;
5589 private javax.swing.JTextField txtlmalop;
5590 private javax.swing.JTextField txtlnienkhoa;
5591 private javax.swing.JTextField txtlthemmasv;
5592 private javax.swing.JTextField txtlxoamassv;
5593 private javax.swing.JPasswordField txtmk;
5594 private javax.swing.JTextArea txtnoidung;
5595 private javax.swing.JPasswordField txtqlmkmkmoi;
5596 private javax.swing.JTextField txtqlnvemail;
5597 private javax.swing.JTextField txtqlnvma;
```



```
5598 private javax.swing.JTextField txtqlnvtennv;
5599 private javax.swing.JTextField txtqmktaikhoan;
5600 private javax.swing.JTextField txttaotkmanv;
5601 private javax.swing.JTextField txttaotkennv;
5602 private javax.swing.JTextField txttieude;
5603 private javax.swing.JTextField txttk;
5604 // End of variables declaration
5605 }
5606
```