```
01 package GUILayer;
02
03 import ControlLayer.*;
04 import ModelLayer.*;
05
06 import java.awt.BorderLayout;
07 import java.awt.Component;
08 import java.awt.EventQueue;
09 import java.awt.Color;
10
11 import javax.swing.JFrame;
12 import javax.swing.JPanel;
13 import javax.swing.JScrollPane;
14 import javax.swing.JTable;
15 import javax.swing.ListSelectionModel;
16 import javax.swing.border.EmptyBorder;
17 import javax.swing.JTextField;
18 import javax.swing.JLabel;
19 import javax.swing.border.LineBorder;
20 import javax.swing.border.TitledBorder;
21 import javax.swing.table.DefaultTableModel;
22 import javax.swing.table.TableCellRenderer;
24 import java.util.ArrayList;
25 import java.util.Collection;
26 import java.util.Iterator;
27 import javax.swing.JButton;
28 import java.awt.event.MouseAdapter;
29 import java.awt.event.MouseEvent;
30
31 public class GUITransfer extends JFrame {
32
33
      private static final long serialVersionUID = 1L;
34
35
      private JPanel
                         mainPane;
      private JPanel
36
                         backPane;
37
      private JPanel
                         transferPane;
38
      private JPanel
                         reportedPane;
39
40
      private JTextField cageno_transferfield;
41
      private JTextField cageno_reportfield;
42
      private JTextField disease_field;
43
      private JTextField employee_field;
44
      private JTextField date_field;
45
      private JTextField status_field;
46
47
      JButton SaveReportButton;
      JButton CancelReportButton;
48
      JButton SaveTransferButton;
49
50
      JButton CancelTransferButton;
51
      JButton SearchTransferButton;
      JButton DeleteTransferButton;
52
53
      JLabel lblTransferdato;
54
55
56
      int diseaseId = 0;
57
58
      /**
59
60
       * Launch the application.
61
62
      public static void main(String[] args) {
63
            EventQueue.invokeLater(new Runnable() {
64
                  public void run() {
```

```
65
                         try {
66
                               GUITransfer frame = new GUITransfer();
67
                               frame.setVisible(true);
68
                         } catch (Exception e) {
69
                               e.printStackTrace();
70
                         }
71
                  }
            });
72
73
74
      /**
75
76
       * Create the main frame.
77
78
      public GUITransfer() {
79
            setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
80
            setBounds(100, 100, 1024, 600);
81
            mainPane = new JPanel();
82
            mainPane.setBorder(new EmptyBorder(5, 15, 5, 5));
83
            mainPane.setLayout(new BorderLayout(0, 0));
            setContentPane(mainPane);
84
85
            JLabel lblDiceaseTransfereMenu = new JLabel("Rapport og
86
87
            Transfer Vindue");
88
            mainPane.add(lblDiceaseTransfereMenu, BorderLayout.NORTH);
89
90
            backPane = new JPanel();
91
            backPane.setBorder(new LineBorder(new Color(0, 0, 0)));
            mainPane.add(backPane, BorderLayout.CENTER);
92
93
            backPane.setLayout(null);
94
95
            createTransferPane();
96
            createReportedPane();
97
98
            // Status
99
            JLabel lblStatus = new JLabel("Status:");
            lblStatus.setBounds(10, 500, 46, 14);
100
101
            backPane.add(lblStatus);
102
103
            refreshScreen();
104
105
            status_field = new JTextField();
106
            status_field.setText("test");
107
            status_field.setEditable(false);
108
            status_field.setBounds(60, 497, 916, 20);
109
            backPane.add(status_field);
110
            status_field.setColumns(10);
111
112
      }
113
114
      /**
      * Create the Transfer frame.
115
116
117
      private void createTransferPane() {
118
            transferPane = new JPanel();
119
            transferPane.setBorder(new TitledBorder(null, "Transfer
120
            Vindue", TitledBorder.LEADING, TitledBorder.TOP, null,
121
            null));
            transferPane.setBounds(496, 10, 500, 490);
122
            transferPane.setBounds(500, 10, 480, 480);
123
124
            backPane.add(transferPane);
125
            transferPane.setLayout(null);
126
127
          // CageNo
128
            JLabel lblNewLabel_1 = new JLabel("Indtast Bur Nummer:");
```

```
129
          lblNewLabel_1.setBounds(10, 71, 137, 14);
130
          lblNewLabel_1.setEnabled(true);
131
          transferPane.add(lblNewLabel_1);
132
133
          cageno_transferfield = new JTextField();
134
          cageno transferfield.setEnabled(false);
135
          cageno_transferfield.setEditable(false);
136
          cageno_transferfield.setBounds(147, 68, 86, 20);
137
          transferPane.add(cageno_transferfield);
138
          cageno_transferfield.setColumns(10);
139
          transferPane.setVisible(true);
140
141
          // Disease Id
142
          JLabel lblNewLabel = new JLabel("Indtast Sygdom Id :");
143
            lblNewLabel.setBounds(10, 96, 137, 14);
144
            transferPane.add(lblNewLabel);
145
146
            disease field = new JTextField();
147
            disease_field.setEditable(false);
148
            disease_field.setEnabled(false);
149
            disease_field.setBounds(147, 96, 86, 20);
150
            transferPane.add(disease_field);
151
            disease_field.setColumns(10);
152
153
            // Employee Id
154
            JLabel lblEmployeeId = new JLabel("Indtast Medarbejder Id:
155
156
            lblEmployeeId.setBounds(10, 133, 137, 14);
157
            transferPane.add(lblEmployeeId);
158
            employee_field = new JTextField();
159
            employee_field.setBounds(147, 130, 86, 20);
160
161
            employee_field.setEnabled(false);
162
            employee_field.setEditable(false);
163
            transferPane.add(employee_field);
164
            employee_field.setColumns(10);
165
166
          lblTransferdato = new JLabel("TransferDato:");
167
          lblTransferdato.setVisible(false);
          lblTransferdato.setBounds(10, 167, 114, 14);
168
169
          transferPane.add(lblTransferdato);
170
171
          date_field = new JTextField();
172
          date_field.setEditable(false);
173
            date_field.setVisible(false);
174
          date_field.setBounds(147, 161, 86, 20);
175
          transferPane.add(date_field);
176
          date_field.setColumns(10);
177
178
          JButton btnNewButton_3 = new JButton("Starte Ny
179
          Transfer");
180
          btnNewButton_3.addMouseListener(new MouseAdapter() {
181
            @Override
182
            public void mouseClicked(MouseEvent e) {
183
                  cageno transferfield.setText("");
184
                  disease field.setText("");
185
                  employee_field.setText("");
186
187
                  cageno_transferfield.setEditable(true);
188
                  cageno_transferfield.setEnabled(true);
189
                  disease_field.setEditable(true);
190
                  disease_field.setEnabled(true);
191
                  employee_field.setEnabled(true);
192
                  employee_field.setEditable(true);
```

```
193
194
                SaveTransferButton.setEnabled(true);
195
                CancelTransferButton.setEnabled(true);
196
                SearchTransferButton.setEnabled(false);
197
                DeleteTransferButton.setEnabled(false);
198
199
                status field.setForeground(Color.BLACK);
200
                  status field.setText("");
201
202
203
          });
204
205
          btnNewButton_3.setBounds(10, 24, 154, 23);
206
          transferPane.add(btnNewButton_3);
2.07
208
          JButton btnFindTransfer = new JButton("Find Transfer");
2.09
          btnFindTransfer.addMouseListener(new MouseAdapter() {
210
            @Override
211
            public void mouseClicked(MouseEvent arg0) {
212
                  cageno_transferfield.setText("");
213
                  disease_field.setText("");
214
                  employee_field.setText("");
215
                  date_field.setText("");
216
217
                  cageno transferfield.setEditable(true);
218
                  cageno transferfield.setEnabled(true);
219
220
                  SaveTransferButton.setEnabled(false);
221
                  CancelTransferButton.setEnabled(false);
222
                  SearchTransferButton.setEnabled(true);
223
                  DeleteTransferButton.setEnabled(false);
224
225
                  status_field.setText("");
226
227
          });
228
229
          btnFindTransfer.setBounds(174, 24, 147, 23);
230
231
          transferPane.add(btnFindTransfer);
232
233
          SaveTransferButton = new JButton("Gem");
234
          SaveTransferButton.addMouseListener(new MouseAdapter() {
235
            @Override
236
            public void mouseClicked(MouseEvent e) {
237
                  cageno_transferfield.setEditable(false);
238
                  cageno_transferfield.setEnabled(false);
                  disease_field.setEditable(false);
239
240
                  disease_field.setEnabled(false);
241
                   employee_field.setEnabled(false);
242
                   employee_field.setEditable(false);
243
2.44
                  SaveTransferButton.setEnabled(false);
245
                  CancelTransferButton.setEnabled(false);
246
                  SearchTransferButton.setEnabled(false);
2.47
                  DeleteTransferButton.setEnabled(false);
248
249
                  insertTransfer();
250
                  refreshScreen();
251
252
                  cageno_transferfield.setText("");
253
                  disease_field.setText("");
254
                  employee_field.setText("");
255
                  date_field.setText("");
256
```

```
257
          });
258
259
260
          SaveTransferButton.setBounds(35, 192, 89, 23);
261
          SaveTransferButton.setEnabled(false);
262
          transferPane.add(SaveTransferButton);
263
264
          CancelTransferButton = new JButton("Annullere");
265
          CancelTransferButton.addMouseListener(new MouseAdapter()
266
267
            @Override
268
            public void mouseClicked(MouseEvent e) {
269
                  cageno_transferfield.setEditable(false);
270
                  cageno transferfield.setEnabled(false);
271
                  disease field.setEditable(false);
272
                  disease field.setEnabled(false);
273
                  employee_field.setEnabled(false);
274
                  employee_field.setEditable(false);
275
                  date_field.setVisible(false);
276
                lblTransferdato.setVisible(false);
277
278
                  SaveTransferButton.setEnabled(false);
279
                  CancelTransferButton.setEnabled(false);
280
                  SearchTransferButton.setEnabled(false);
281
                  DeleteTransferButton.setEnabled(false);
282
283
                  cageno transferfield.setText("");
284
                  disease field.setText("");
285
                  employee field.setText("");
                  date_field.setText("");
286
287
            }
288
          });
289
          CancelTransferButton.setBounds(134, 192, 89, 23);
290
291
          CancelTransferButton.setEnabled(false);
          transferPane.add(CancelTransferButton);
292
293
294
          SearchTransferButton = new JButton("S\u00F8g");
295
          SearchTransferButton.setEnabled(false);
296
          SearchTransferButton.addMouseListener(new MouseAdapter()
297
298
            @Override
299
            public void mouseClicked(MouseEvent e) {
300
                  if((cageno_transferfield.getText().length() > 2) &&
301
                  findTransfer())
302
303
                       status_field.setForeground(Color.BLACK);
304
                         status_field.setText("KLAR TIL AT SLETTE VIST
305
                         TRANSFER POST.");
306
                         DeleteTransferButton.setEnabled(true);
                   }
307
                  else
308
309
310
                       status field.setForeground(Color.RED);
311
                         status field.setText("FEJL BUR NUMMER MANGLER AT
312
                         BLIVE ANGIVET ELLER FINDES IKKE I TRANSFER.");
313
314
                  SaveTransferButton.setEnabled(false);
315
                  CancelTransferButton.setEnabled(true);
316
                  SearchTransferButton.setEnabled(false);
317
318
                  disease_field.setEnabled(true);
319
                  employee_field.setEnabled(true);
320
                  date_field.setVisible(true);
```

```
321
                  lblTransferdato.setVisible(true);
322
323
324
          });
325
          SearchTransferButton.setBounds(266, 192, 89, 23);
326
          transferPane.add(SearchTransferButton);
327
328
          DeleteTransferButton = new JButton("Slet");
          DeleteTransferButton.addMouseListener(new MouseAdapter()
329
330
          {
331
            @Override
332
            public void mouseClicked(MouseEvent e) {
333
                  if(DeleteTransferButton.isEnabled())
334
335
                         cageno_transferfield.setEditable(false);
336
                         cageno_transferfield.setEnabled(false);
337
                         disease_field.setEnabled(false);
338
                         employee_field.setEnabled(false);
339
                         date_field.setVisible(false);
340
                       lblTransferdato.setVisible(false);
341
342
                         SaveTransferButton.setEnabled(false);
343
                         CancelTransferButton.setEnabled(false);
344
                         SearchTransferButton.setEnabled(false);
345
                         DeleteTransferButton.setEnabled(false);
346
347
                         deleteTransfer();
348
                         //createTransferList();
349
                         cageno_transferfield.setText("");
350
                         disease_field.setText("");
351
352
                         employee_field.setText("");
353
                         date_field.setText("");
354
                  }
355
356
357
                  createTransferList();
            }
358
          });
359
360
          DeleteTransferButton.setEnabled(false);
361
          DeleteTransferButton.setBounds(365, 192, 89, 23);
362
          transferPane.add(DeleteTransferButton);
363
      }
364
365
366
367
      // method to insert a Transfer record into the database
368
        private void insertTransfer()
369
370
            CTRTransfer ctrtrans = new CTRTransfer();
371
            int cagenumber = Integer.parseInt(cageno_transferfield.
372
            getText());
373
            int disease = Integer.parseInt(disease_field.getText());
374
            int employee = Integer.parseInt(employee_field.getText());
375
376
            if((checkCage(cagenumber) != null) &&
377
               (checkEmployee(employee) != null) &&
378
               ((checkBite(disease) != null) | (checkPlasma(
379
               disease) != null))
380
381
            {
382
                  if(ctrtrans.insertTransfer(cagenumber, disease,
383
                  employee) == 1)
384
                  {
```

```
385
                         status field.setForeground(Color.BLACK);
386
                         status field.setText("NY TRANSFER OPRETTET.");
387
                  }
388
                  else
389
                  {
390
                         status_field.setForeground(Color.RED);
                         status_field.setText("EN FEJL OPSTOD UNDER OPRETTELSE
391
392
                        AF TRANSFER. SE KONSOL VINDUE.");
                  }
393
394
395
            }
396
            else
397
            {
398
                  status_field.setForeground(Color.RED);
399
                  status_field.setText("FEJL I EN ELLER FLERE NØGLER.
400
                  TRANSFER IKKE OPRETTET. SE KONSOL VINDUE.");
401
            }
         }
402
403
404
        private void deleteTransfer()
405
406
            CTRTransfer ctrtrans = new CTRTransfer();
407
            int cagenumber = Integer.parseInt(cageno_transferfield.
408
            getText());
409
            if(ctrtrans.deleteTransfer(cagenumber) == 1)
410
411
                  status field.setForeground(Color.BLACK);
412
                        status field.setText("TRANSFER POST SLETTET.");
413
            }
414
415
            else
416
            {
417
                  status_field.setForeground(Color.RED);
                        status_field.setText("EN FEJL OPSTOD UNDER SLETNINGEN
418
419
                        AF TRANSFER. SE KONSOL VINDUE.");
            }
420
421
        }
422
423
424
      // method to create a scroll list of all Transfers.
425
      private void createTransferList()
426
427
            CTRTransfer ctrTransfer = new CTRTransfer();
428
            ArrayList<Transfer> TransferList = ctrTransfer.
429
            getAllTransfer();
430
            Collection<Transfer> TransferColList = TransferList;
431
          Iterator<Transfer> itr = TransferColList.iterator();
432
          int itemSize = TransferColList.size();
433
434
          String tabledata[][] = new String[itemSize][5];
435
          int i = 0;
436
          while( itr.hasNext() ) {
437
438
            Transfer TransferObj = itr.next();
439
            Integer TransferIdInt = TransferObj.getTransferId();
440
                  Integer CageNoInt = TransferObj.getCage().getCageNo();
441
                  Integer DiseaseIdInt;
442
                  if(TransferObj.getBitedisease() != null)
443
                        DiseaseIdInt = TransferObj.getBitedisease().
444
                         getDiseaseId();
445
                  else if (TransferObj.getPlasmadisease() != null)
446
                        DiseaseIdInt = TransferObj.getPlasmadisease().
447
                         getDiseaseId();
448
                  else
```

```
449
                         DiseaseIdInt = 0;
450
                   Integer EmployeeIdInt = TransferObj.getEmployee().
451
                  getEmployeeID();
452
453
                  String line[] = {
454
                               TransferIdInt.toString(),
455
                               CageNoInt.toString(),
456
                               DiseaseIdInt.toString(),
457
                               EmployeeIdInt.toString(),
458
                               TransferObj.getTransferDate()
459
                               };
460
461
                   tabledata[i] = line;
462
                   i++;
          }
463
464
          String headers[] = { "Transfer ID", "Cage No", "Disease
465
466
          ID", "Employee ID", "Transfer Date" };
467
          // Create a new table instance
468
          DefaultTableModel model = new DefaultTableModel(
469
          tabledata, headers);
470
          // And line color shift in table
471
          JTable table = new JTable(model) {
472
              private static final long serialVersionUID = 1L;
473
474
              public Component prepareRenderer(TableCellRenderer
475
              renderer, int Index_row, int Index_col) {
                  Component comp = super.prepareRenderer(renderer,
476
477
                  Index_row, Index_col);
478
                   // if not selected then change background color
479
                  for every second row
480
                  if (!isCellSelected(Index_row, Index_col)) {
                       if (Index_row % 2 == 0)
481
482
                           comp.setBackground(Color.WHITE);
483
                       else
484
                           comp.setBackground(Color.LIGHT_GRAY);
485
486
                  return comp;
487
          }; // end of creating JTable table
488
489
490
          table.setSelectionMode(ListSelectionModel.
491
          SINGLE_SELECTION);
492
          table.setEnabled(false);
493
494
          JScrollPane scrollPane = new JScrollPane(table);
495
          scrollPane.setViewportBorder(new TitledBorder(null,
496
          "Transfer list", TitledBorder.LEADING, TitledBorder.TOP,
497
          null, null));
498
          scrollPane.setBounds(10, 226, 460, 244);
499
          transferPane.add(scrollPane, BorderLayout.CENTER);
500
501
      }
502
503
      /**
504
505
      * Create the DiseaseReport frame.
506
507
      private void createReportedPane() {
508
            reportedPane = new JPanel();
509
            reportedPane.setBorder(new TitledBorder(null, "Rapport
510
            Vindue", TitledBorder.LEADING, TitledBorder.TOP, null,
511
            null));
512
            reportedPane.setBounds(10, 10, 480, 480);
```

```
513
            backPane.add(reportedPane);
514
            reportedPane.setLayout(null);
515
516
            // Cage No
          JLabel lblNewLabel = new JLabel("Indtast Bur Nummer:");
517
518
            lblNewLabel.setBounds(10, 113, 131, 14);
519
            lblNewLabel.setEnabled(true);
520
            reportedPane.add(lblNewLabel);
521
522
            cageno_reportfield = new JTextField();
523
            cageno_reportfield.setBounds(144, 110, 92, 20);
524
            cageno_reportfield.setEnabled(false);
525
            cageno_reportfield.setEditable(false);
526
            reportedPane.add(cageno_reportfield);
527
            cageno_reportfield.setColumns(10);
528
529
          JButton btnNewButton = new JButton("Registrere Ny
530
          Plasmacytosis ");
531
          btnNewButton.addMouseListener(new MouseAdapter() {
532
533
            public void mouseClicked(MouseEvent arg0) {
534
                  diseaseId = 1500;
535
                  cageno_reportfield.setText("");
536
                  cageno reportfield.setEnabled(true);
537
                  cageno_reportfield.setEditable(true);
538
539
                  SaveReportButton.setEnabled(true);
540
                  CancelReportButton.setEnabled(true);
541
542
                  status_field.setForeground(Color.BLACK);
                  status_field.setText("KLAR TIL AT OPRETTE EN DISEASE
543
544
                  REPORT PÅ ET BUR MED SYGDOM PLASMACYTOSIS.");
545
          });
546
547
          btnNewButton.setBounds(10, 23, 210, 23);
548
549
          reportedPane.add(btnNewButton);
550
551
          JButton btnNewButton_1 = new JButton("Registrere Ny
552
          Bides\u00E5r");
553
          btnNewButton_1.addMouseListener(new MouseAdapter() {
554
            @Override
555
            public void mouseClicked(MouseEvent e) {
556
                  diseaseId = 1600;
557
                  cageno_reportfield.setText("");
558
                  cageno_reportfield.setEnabled(true);
559
                  cageno_reportfield.setEditable(true);
560
561
                  SaveReportButton.setEnabled(true);
562
                  CancelReportButton.setEnabled(true);
563
564
                  status_field.setForeground(Color.BLACK);
565
                  status field.setText("KLAR TIL AT OPRETTE EN
566
                  DISEASEREPORT PÅ ET BUR MED SYGDOM BIDESÅR.");
            }
567
568
          });
569
570
          btnNewButton_1.setBounds(10, 57, 173, 23);
571
          reportedPane.add(btnNewButton_1);
572
573
          SaveReportButton = new JButton("Gem");
574
          SaveReportButton.setEnabled(false);
575
          SaveReportButton.addMouseListener(new MouseAdapter() {
576
            @Override
```

```
577
            public void mouseClicked(MouseEvent e) {
578
                  cageno reportfield.setEnabled(false);
579
                  cageno reportfield.setEditable(false);
580
                  SaveReportButton.setEnabled(false);
581
                  CancelReportButton.setEnabled(false);
582
583
                  createDiseaseReport();
584
                  refreshScreen();
585
586
                  cageno_reportfield.setText("");
587
588
          });
589
590
          SaveReportButton.setBounds(95, 193, 83, 23);
591
          reportedPane.add(SaveReportButton);
592
593
          CancelReportButton = new JButton("Annullere");
594
          CancelReportButton.addMouseListener(new MouseAdapter() {
595
            @Override
596
            public void mouseClicked(MouseEvent e) {
597
                  cageno_reportfield.setEnabled(false);
598
                  cageno_reportfield.setEditable(false);
599
600
                  SaveReportButton.setEnabled(false);
601
                  CancelReportButton.setEnabled(false);
602
603
                  cageno reportfield.setText("");
604
                  diseaseId = 0;
605
          });
606
607
608
          CancelReportButton.setEnabled(false);
          CancelReportButton.setBounds(188, 193, 89, 23);
609
610
          reportedPane.add(CancelReportButton);
611
      }
612
613
614
615
      // method to insert a DiseaseReport record into the
616
      database
617
      private void createDiseaseReport()
618
619
            CTRDiseaseReport ctrDiseaseReport = new CTRDiseaseReport();
620
            int cagenumber = Integer.parseInt(cageno_reportfield.
621
            getText());
622
            if((checkCage(cagenumber) != null) &&
623
               ((checkBite(diseaseId) != null) || (checkPlasma(
624
               diseaseId) != null))
625
626
            {
627
628
                  if(checkCageNoTransfer(cagenumber) == null)
629
                   {
630
                         if(ctrDiseaseReport.insertDiseaseReport(cagenumber,
631
                         diseaseId) == 1)
632
633
                         status_field.setForeground(Color.BLACK);
634
                               status_field.setText("NY DISEASE REPORT
OPRETTET.");
635
                         }
636
                         else
                         {
637
638
                               status_field.setForeground(Color.RED);
                               status_field.setText("FEJL OPSTOD UNDER OPRETTELSE
639
```

```
AF
640
                               DISEASE REPORT. SE KONSOL VINDUE.");
641
                         }
642
                   }
643
                  else
644
                   {
645
                         status_field.setForeground(Color.RED);
                         status_field.setText("FEJL BUR NUMMER EKSISTER I FORVEJN
646
647
                         I TRANSFER. DISEASE REPORT IKKE OPRETTET.");
648
                   }
649
            }
650
            else
651
            {
652
                  status_field.setForeground(Color.RED);
653
                   status_field.setText("FEJL I EN ELLER FLERE NØGLER.
654
                  DISEASE REPORT IKKE OPRETTET. SE KONSOL VINDUE.");
655
            }
      }
656
657
658
659
      // method to create a scroll list of all DiseaseReports.
660
      private void createReportList()
661
662
            //HashMap<Integer, Transfer> TransferList;
663
            //TransferList = new HashMap<Integer, Transfer>();
664
            CTRDiseaseReport ctrDiseaseReport = new CTRDiseaseReport();
665
            ArrayList<DiseaseReport> DiseaseReportList;
666
667
            DiseaseReportList = ctrDiseaseReport.getAllDiseaseReport();
668
            Collection<DiseaseReport> DiseaseReportColList =
669
            DiseaseReportList;
670
          Iterator<DiseaseReport> itr = DiseaseReportColList.
671
          iterator();
672
          int itemSize = DiseaseReportColList.size();
673
          String tabledata[][] = new String[itemSize][3];
674
          int i = 0;
          while( itr.hasNext() ) {
675
676
677
            DiseaseReport DiseaseReportObj = itr.next();
678
                   Integer CageNoInt = DiseaseReportObj.getCageNo();
679
                   Integer DiseaseIdInt = DiseaseReportObj.getDiseaseId();
680
681
                  String line[] = {
682
                               CageNoInt.toString(),
683
                               DiseaseIdInt.toString(),
684
                               DiseaseReportObj.getReportDate()
685
                               };
686
687
                  tabledata[i] = line;
688
689
          }
690
          String headers[] = { "Cage No", "Disease ID", "Report
691
692
          Date" };
693
          // Create a new table instance
694
          DefaultTableModel model = new DefaultTableModel(
695
          tabledata, headers);
696
          // And line color shift in table
697
          JTable table = new JTable(model) {
698
              private static final long serialVersionUID = 1L;
699
700
              public Component prepareRenderer(TableCellRenderer
701
              renderer, int Index_row, int Index_col) {
702
                  Component comp = super.prepareRenderer(renderer,
```

```
703
                  Index_row, Index_col);
704
                  // if not selected then change background color
705
                  for every second row
                  if (!isCellSelected(Index_row, Index_col)) {
706
707
                      if (Index_row % 2 == 0)
708
                           comp.setBackground(Color.WHITE);
709
                      else
710
                          comp.setBackground(Color.LIGHT_GRAY);
711
712
                  return comp;
713
714
          }; // end of creating JTable table
715
716
          table.setSelectionMode(ListSelectionModel.
717
          SINGLE SELECTION);
718
          table.setEnabled(false);
719
720
          JScrollPane scrollPane = new JScrollPane(table);
721
          scrollPane.setViewportBorder(new TitledBorder(null,
722
          "DiseaseReport list", TitledBorder.LEADING,
723
          TitledBorder.TOP, null, null));
724
          scrollPane.setBounds(10, 227, 460, 243);
725
          reportedPane.add(scrollPane, BorderLayout.CENTER);
726
      }
727
728
      // method to refresh the two list tables after an operation.
729
730
      private void refreshScreen()
731
732
            createReportList();
733
            createTransferList();
734
735
736
      //method to find cage
737
        private Cage checkCage(int key)
738
739
            CTRCage ctrEmp = new CTRCage();
740
            return ctrEmp.findCage(key);
741
        }
742
743
      //method to find employee
744
        private Employee checkEmployee(int key)
745
746
            CTREmployee ctrEmp = new CTREmployee();
747
            return ctrEmp.findEmployeeByID(key);
748
749
750
      //method to find bitedisease
751
        private BiteDisease checkBite(int key)
752
753
            CTRBiteDisease ctrBite = new CTRBiteDisease();
754
            return ctrBite.findDiseaseById(key);
755
        }
756
757
        //method to find plasmadisease
758
        private PlasmaDisease checkPlasma(int key)
759
760
            CTRPlasmaDisease ctrplasma = new CTRPlasmaDisease();
761
            return ctrplasma.findDiseaseById(key);
762
763
764
        //method to find Cage number in Transfer
765
        private Transfer checkCageNoTransfer(int key)
766
```

```
767
            CTRTransfer ctrtransfer = new CTRTransfer();
768
            return ctrtransfer.searchTransfersByCageId(key);
769
770
771
      //method a Transfer with given Cage number and put it into
772
      display fields.
773
        private boolean findTransfer()
774
775
            if(cageno_transferfield.getText().length() > 2)
776
777
            int cagenumber = Integer.parseInt(cageno_transferfield.
778
            getText());
779
            Transfer transfer = checkCageNoTransfer(cagenumber);
780
            if(transfer != null)
781
782
                  employee_field.setText(String.valueOf(transfer.
783
                  getEmployee().getEmployeeID());
784
                  if(transfer.getBitedisease() != null)
785
                        disease_field.setText(String.valueOf(transfer.
786
                        getBitedisease().getDiseaseId());
787
                  else if(transfer.getPlasmadisease() != null)
788
                        disease_field.setText(String.valueOf(transfer.
789
                        getPlasmadisease().getDiseaseId()));
790
                  else
791
                        disease field.setText("NOT GIVEN");
792
                  date field.setText(transfer.getTransferDate());
793
                  return true;
794
795
796
            return false;
797
798
799 }
```