

## DataCheckDialog.java

```
package OurNeighborsChild;

import java.awt.Color;

public class DataCheckDialog extends JDialog implements ActionListener,
ListSelectionListener
{
    /**
     *
     */
    private static final long serialVersionUID = 1L;
    private static final int NUM_ROWS_TO_DISPLAY = 10;
    private static final Integer MAXIMUM_ONC_NUMBER = 9999;

    public JTable dupTable;
    private DefaultTableModel dupTableModel;
    private JCheckBox[] cbArray;
    private JLabel lblCount;
    private JButton btnPrint;
    private ArrayList<DupItem> dupAL;
    private ArrayList<ONCFamily> fAL;
    private ChildDB cDB;

    private boolean bChangingTable;

    DataCheckDialog(JFrame pf, ImageIcon oncIcon, Families fdb, ChildDB
cdb)
    {
        super(pf, false);
        fAL = fdb.getFamilyDB();
        cDB = cdb;
        this.setTitle("Our Neighbor's Child - Child Database Checks");

        //Initialize Dup Table data structure
        dupAL = new ArrayList<DupItem>();

        JPanel contentPane = (JPanel) this.getContentPane();
        contentPane.setLayout(new BoxLayout(contentPane,
BoxLayout.Y_AXIS));

        JPanel topPanel = new JPanel();
        topPanel.setLayout(new FlowLayout(FlowLayout.LEFT));
```

## DataCheckDialog.java

```
topPanel.setBorder(BorderFactory.createTitledBorder("Child Data  
Check Criteria"));

JLabel lblONCIcon = new JLabel(oncIcon);

JPanel checkCriteriaPanel = new JPanel(new  
FlowLayout(FlowLayout.LEFT));
topPanel.setBorder(BorderFactory.createTitledBorder("Child Data  
Check Criteria"));

cbArray = new JCheckBox[6];
cbArray[0] = new JCheckBox("Different Families?");
cbArray[0].setSelected(true);
cbArray[1] = new JCheckBox("Date of Birth");
cbArray[1].setSelected(true);
cbArray[2] = new JCheckBox("Gender");
cbArray[2].setSelected(true);
cbArray[3] = new JCheckBox("First Name");
cbArray[4] = new JCheckBox("Exact Last Name");
cbArray[4].setSelected(true);
cbArray[5] = new JCheckBox("Partial Last Name");

for(int i=0; i<cbArray.length; i++)
{
    cbArray[i].addActionListener(this);
    checkCriteriaPanel.add(cbArray[i]);
}

topPanel.add(lblONCIcon);
topPanel.add(checkCriteriaPanel);

//Create the table to display duplicate check results
dupTable = new JTable()
{
    private static final long serialVersionUID = 1L;

    //Implement table header tool tips.
    protected String[] columnToolTips = {"Family #1 ONC Number",
"Child #1 First Name", "Child #1 Last Name",
"Child #1 Gender", "Child  
#1 DOB", "Result",
"Family #2 ONC Number",
```

DataCheckDialog.java

```
"Child #2 First Name", "Child #2 Last Name", "Child #2 Gender", "Child
#2 DOB"};

    public boolean getScrollableTracksViewportWidth()
    {
        return getPreferredSize().width < getParent().getWidth();
    }

    protected JTableHeader createDefaultTableHeader()
    {
        return new JTableHeader(columnModel)
        {
            private static final long serialVersionUID = 1L;

            public String getToolTipText(MouseEvent e)
            {
                java.awt.Point p = e.getPoint();
                int index = columnModel.getColumnIndexAtX(p.x);
                int realIndex =
columnModel.getColumn(index).getModelIndex();
                return columnToolTips[realIndex];
            }
        };
    }

    public Component prepareRenderer(TableCellRenderer
renderer, int Index_row, int Index_col)
    {
        Component comp = super.prepareRenderer(renderer, Index_row,
Index_col);

        if(isRowSelected(Index_row))
            comp.setBackground(comp.getBackground());
        else if (Index_row % 2 == 1)
            comp.setBackground(new Color(240,248,255));
        else
            comp.setBackground(Color.white);

        return comp;
    }
};
```

## DataCheckDialog.java

```
String[] columns = {"ONC#", "First Name", "Last Name", "Gen.",  
"DOB", "Result",  
                    "ONC #", "First Name", "Last Name", "Gen.",  
"DOB"};  
dupTableModel = new DefaultTableModel(columns, 0)  
{  
    private static final long serialVersionUID = 1L;  
    @Override  
    //All cells are locked from being changed by user  
    public boolean isCellEditable(int row, int column) {return  
false;}  
};  
  
dupTable.setModel(dupTableModel);  
  
dupTable.setSelectionMode(ListSelectionModel.SINGLE_INTERVAL_SELECTION);  
  
dupTable.setAutoResizeMode(JTable.AUTO_RESIZE_OFF);  
  
//Set table column widths  
int tablewidth = 0;  
int[] colWidths = {40, 88, 96, 48, 72, 72, 40, 88, 96, 48,  
72};  
for(int i=0; i < colWidths.length; i++)  
{  
dupTable.getColumnModel().getColumn(i).setPreferredWidth(colWidths[i]);  
    tablewidth += colWidths[i];  
}  
tablewidth += 24;    //Account for vertical scroll bar  
  
JTableHeader anHeader = dupTable.getTableHeader();  
anHeader.setForeground(Color.black);  
anHeader.setBackground(new Color(161,202,241));  
  
//mouse listener for header click  
anHeader.addMouseListener(new MouseAdapter()  
{  
    @Override
```

## DataCheckDialog.java

```
public void mouseClicked(MouseEvent e)
{
    if(dupTable.columnAtPoint(e.getPoint()) == 0)    //Sort on
Family 1 ONC Family
        Collections.sort(dupAL, new
DupItemONCNumComparator());
    else if(dupTable.columnAtPoint(e.getPoint()) == 2)    //
Sort on Batch Number
        Collections.sort(dupAL, new
DupItemChild1LastNameComparator());
    else if(dupTable.columnAtPoint(e.getPoint()) == 4)    //
Sort on ONC Family Number
        Collections.sort(dupAL, new
DupItemChild1AgeComparator());
    else
        return;

    displayDupTable();
}
});

//Center cell entries for Batch # and Region
DefaultTableCellRenderer dtcr = new DefaultTableCellRenderer();
dtcr.setHorizontalAlignment(SwingConstants.CENTER);
dupTable.getColumnModel().getColumn(3).setCellRenderer(dtcr);
dupTable.getColumnModel().getColumn(5).setCellRenderer(dtcr);
dupTable.getColumnModel().getColumn(9).setCellRenderer(dtcr);

dupTable.setBorder(UIManager.getBorder("Table.scrollPaneBorder"));
dupTable.setFillViewportHeight(true);

dupTable.getSelectionModel().addListSelectionListener(this);

//Create the scroll pane and add the table to it.
JScrollPane dupScrollPane = new JScrollPane(dupTable,
JScrollPane.VERTICAL_SCROLLBAR_AS_NEEDED,
JScrollPane.HORIZONTAL_SCROLLBAR_AS_NEEDED);

dupScrollPane.setPreferredSize(new Dimension(tablewidth,
dupTable.getRowHeight()*NUM_ROWS_TO_DISPLAY));
```

## DataCheckDialog.java

```
//Create the bottom panel
JPanel bottomPanel = new JPanel();
bottomPanel.setLayout(new BoxLayout(bottomPanel,
BoxLayout.X_AXIS ));

//Create the count panel
JPanel countPanel = new JPanel(new FlowLayout(FlowLayout.LEFT));
lblCount = new JLabel("Child Count: 0");
bottomPanel.add(lblCount);

//Create the control panel
JPanel cntlPanel = new JPanel(new FlowLayout(FlowLayout.RIGHT));
btnPrint = new JButton("Print");
btnPrint.setEnabled(false);
btnPrint.addActionListener(this);
cntlPanel.add(btnPrint);

bottomPanel.add(countPanel);
bottomPanel.add(cntlPanel);

contentPane.add(topPanel);
contentPane.add(dupScrollPane);
contentPane.add(bottomPanel);

pack();
// setSize(780, 220);
setResizable(true);
Point pt = pf.getLocation();
setLocation(pt.x + 20, pt.y + 20);

}

void buildDupTable()
{
    dupAL.clear();
    btnPrint.setEnabled(false);
    dupTable.setRowSelectionAllowed(false);

    DuplicateDataCheck datachecker = new DuplicateDataCheck();
    boolean[] criteria = {cbArray[0].isSelected(),
```

## DataCheckDialog.java

```
cbArray[1].isSelected(), cbArray[2].isSelected(),
                           cbArray[3].isSelected(),
cbArray[4].isSelected(), cbArray[5].isSelected()});

    //If child comparison returns a match, sort by child 1 last name,
    allow table row selections and user print
    if(datachecker.duplicateChildCheck(fAL, criteria, cDB, dupAL))
    {
        Collections.sort(dupAL, new
DupItemChild1LastNameComparator());
        dupTable.setRowSelectionAllowed(true);
        btnPrint.setEnabled(true);
    }

    displayDupTable();
}

void displayDupTable()
{
    bChangingTable = true; //don't process table messages while
being changed

    while (dupTableModel.getRowCount() > 0) //Clear the current table
        dupTableModel.removeRow(0);

    for(DupItem di:dupAL) //Build the new table
        dupTableModel.addRow(di.getDupChildTableRow());

    lblCount.setText("Child Count: " +
Integer.toString(dupTableModel.getRowCount()));

    bChangingTable = false;
}

void onPrintDataCheck()
{
    try
    {
        MessageFormat headerFormat = new MessageFormat("Child Data
Check");
        MessageFormat footerFormat = new MessageFormat("- {0} -");
        dupTable.print(JTable.PrintMode.FIT_WIDTH, headerFormat,
```

## DataCheckDialog.java

```
footerFormat);
    }
    catch (PrinterException e)
    {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

ListSelectionModel getDupTableLSM() { return
dupTable.getSelectionModel(); }

int getSelectedDupItem0NCID() { return
dupAL.get(dupTable.getSelectedRow()).getDupItem10NCID(); }

boolean isDupTableChanging() { return bChangingTable; }

@Override
public void valueChanged(ListSelectionEvent arg0) {
    // TODO Auto-generated method stub
}

@Override
public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource() == btnPrint) { onPrintDataCheck(); }
    else
    {
        if(ae.getSource() == cbArray[0] && cbArray[0].isSelected())
            cbArray[3].setSelected(false);
        else if(ae.getSource() == cbArray[0] && !
cbArray[0].isSelected())
            cbArray[3].setSelected(true);
        else if(ae.getSource() == cbArray[4] &&
cbArray[4].isSelected())
            cbArray[5].setSelected(false);
        else if(ae.getSource() == cbArray[5] &&
cbArray[5].isSelected())
            cbArray[4].setSelected(false);
    }
}
```



## DataCheckDialog.java

```
        buildDupTable();
    }

    public static boolean isNumeric(String str)
    {
        return str.matches("-?\\d+(\\.\\d+)?"); //match a number with
optional '-' and decimal.
    }

    private class DupItemONCNumComparator implements Comparator<DupItem>
    {
        @Override
        public int compare(DupItem d1, DupItem d2)
        {
            Integer onc1, onc2;

            if(!d1.getDupItemFamily1ONCNum().isEmpty() &&
isNumeric(d1.getDupItemFamily1ONCNum()))
                onc1 = Integer.parseInt(d1.getDupItemFamily1ONCNum());
            else
                onc1 = MAXIMUM_ONC_NUMBER;

            if(!d2.getDupItemFamily1ONCNum().isEmpty() &&
isNumeric(d2.getDupItemFamily1ONCNum()))
                onc2 = Integer.parseInt(d2.getDupItemFamily1ONCNum());
            else
                onc2 = MAXIMUM_ONC_NUMBER;

            return onc1.compareTo(onc2);
        }
    }

    private class DupItemChild1AgeComparator implements
Comparator<DupItem>
    {
        @Override
        public int compare(DupItem d1, DupItem d2)
        {
            return
d1.getDupItemChild1DOB().compareTo(d2.getDupItemChild1DOB());
        }
    }
}
```

## DataCheckDialog.java

```
private class DupItemChild1LastNameComparator implements
Comparator<DupItem>
{
    @Override
    public int compare(DupItem d1, DupItem d2)
    {
        return
d1.getDupItemChild1LastName().compareTo(d2.getDupItemChild1LastName());
    }
}
```