# Eric Wilson Project 8

In this particular example, I technically fetch records from the database on a separate thread. It still waits for the data to be loaded, though. My reasoning is this: As we discussed in class when I presented my example, it's a bad idea to store multiple records in the program because the database could easily change while we're holding on to the data and we'd never know until we wrote to the DB and messed everything up. The only way I can think of to retrieve data concurrently would be buffer the data and load images that we don't plan to display yet. This is in conflict with the problems we talked about.

#### PhotoViewerController.java

```
public class PhotoViewerController implements ActionListener {
   static PhotoCollection collection = new PhotoCollection();
       else if (collection.getCollectionSize() > 0) {
```

```
photoView.updatePhotoCount(maxImages);
    photoView.setDescField(collection.getDescription());
    photoView.setDateField(collection.getDate());
    photoView.disablePrev();
```

```
public void actionPerformed(ActionEvent actionEvent) {
    fc.setFileFilter(filter);
        File file = fc.getSelectedFile();
```

```
photoView.saveAddActionListener(new ActionListener() {
           public void actionPerformed(ActionEvent actionEvent) {
photoView.getDateField());
       photoView.nextAddActionListener(new ActionListener() {
           public void actionPerformed(ActionEvent actionEvent) {
               photoView.enablePrev();
               photoView.setDateField(collection.getDate());
               photoView.updatePhotoCount(maxImages);
            public void actionPerformed(ActionEvent actionEvent) {
               photoView.setDescField(collection.getDescription());
```

```
public void actionPerformed(ActionEvent actionEvent) {
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```

```
public void actionPerformed(ActionEvent actionEvent) {
```

# PhotoViewerLayout.java

```
import java.awt.*;
import java.awt.event.ActionEvent;
```

```
ublic String getDescField(){
```

```
return descriptionTextArea.getText();
}

public void setDescField(String string) {
    descriptionTextArea.setText(string);
}

public void setDateField(String newDate) {dateTextField.setText(newDate);System.out.print("NEWDATE: " +
newDate + "\n");}

public String getDateField() {return dateTextField.getText();}

public int getPictureNumber() throws NumberFormatException{
    String fieldValue = pictureNumberTextField.getText();

    return Integer.parseInt(fieldValue);
}
}
```

## PhotoCollection.java

```
import javax.swing.*;
import java.io.*;
import java.sql.SQLException;
import java.util.ArrayList;
```

```
try {
   DBGW.DBdeleteRecord(index);
```

#### DatabaseGateway.java

```
import javax.swing.*;
import java.io.File;
import java.io.FileInputStream;
import java.io.InputStream;
import java.sql.*;
```

```
public void updateImageData(String description, String date, int index)throws
SQLException{
       pstmt = con.prepareStatement(updateSQL);
```

```
public void DBdeleteRecord(int ind) throws SQLException{
    String deleteRecord = new String("DELETE FROM images WHERE ordr = ?;");
    String updateOrder = new String("UPDATE images SET ordr = ordr - 1 WHERE
ordr > ?;");

    PreparedStatement pstmt = null;

    pstmt = con.prepareStatement(deleteRecord);
    pstmt.setInt(1, ind);
    pstmt.executeUpdate();

    pstmt.setInt(1, ind);
    pstmt.setInt(1, ind);
    pstmt.setInt(1, ind);
    pstmt.close();
}
```

### Photograph.java

