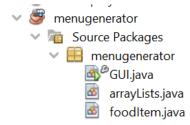
# Appendix - III



## foodItem.java

```
package menugenerator;
3 import java.io.Serializable;
5
     public class foodItem implements Serializable {
         public String name="";
 6
7
         public String price="";
         public String desc="";
8
         public String cat="";
9
10
         public String url="";
11
12 📮
         public foodItem(String name, String price, String desc, String cat, String url){
13
            this.name = name;
14
             this.price = price;
             this.desc = desc;
15
16
             this.cat = cat;
17
             this.url = url;
18
19 🗇
         public String getName() {
             return name;
21
22 -
         public String getPrice(){
23
         return price;
24
25 🖃
         public String getDesc() {
26
             return desc;
27
28 🗐
         public String getCat() {
29
         return cat;
30
31 🖃
         public void setCat(String cat) {
         this.cat=cat;
32
33
34
         public String getUrl(){
35
             return url;
```

# arrayLists.java

```
package menugenerator;
import java.io.Serializable;
import java.util.ArrayList;
      public class arrayLists implements Serializable {
 7
         public ArrayList<foodItem> menu = new ArrayList<>();
 8
          public ArrayList<String> category = new ArrayList<>();
 9
          public ArrayList<String> display = new ArrayList<>();
10
11 📮
         public arrayLists(ArrayList<foodItem> menu, ArrayList<String> category , ArrayList<String> display) {
12
             this.menu = menu;
13
             this.category = category;
14
           this.display = display;
15
16
          public ArrayList<foodItem> getMenu() {
17
          return menu;
18
19 📮
          public ArrayList<String> getCat() {
20
         return category;
21
22 📮
          public ArrayList<String> getDisplay() {
23
23
          return display;
25
```

# GUI.java

```
package menugenerator;
   import java.util.ArrayList;
      import javax.swing.*;
      import java.io.*;
      import java.nio.file.*;
 5
      import javax.swing.filechooser.FileNameExtensionFilter;
 7
      public class GUI extends javax.swing.JFrame {
 8
          public GUI() {
 9
              initComponents();
10
11
12
          @SuppressWarnings("unchecked")
13
          private void initComponents() {
              // <editor-fold defaultstate="collapsed" desc="Variable Initialization">
14
15
              jDialog1 = new javax.swing.JDialog();
              jDialog2 = new javax.swing.JDialog();
16
17
               jDialog3 = new javax.swing.JDialog();
               jDialog4 = new javax.swing.JDialog();
18
19
              jPanel1 = new javax.swing.JPanel();
20
              jPanel2 = new javax.swing.JPanel();
21
              currentLabel = new javax.swing.JLabel();
22
               jSeparator3 = new javax.swing.JSeparator();
               jScrollPane1 = new javax.swing.JScrollPane();
23
24
              menuList = new javax.swing.JList<>();
25
              moveUp = new javax.swing.JButton();
26
              moveDown = new javax.swing.JButton();
              menuDelete = new javax.swing.JButton();
27
28
              jPanel3 = new javax.swing.JPanel();
29
              categoryLabel = new javax.swing.JLabel();
30
               jSeparator1 = new javax.swing.JSeparator();
31
              catName = new javax.swing.JTextField();
32
              cNameLabel = new javax.swing.JLabel();
33
              addCategory = new javax.swing.JButton();
               jSeparator4 = new javax.swing.JSeparator();
34
35
               jPanel4 = new javax.swing.JPanel();
              newLabel = new javax.swing.JLabel();
36
37
              jSeparator2 = new javax.swing.JSeparator();
38
              menuName = new javax.swing.JTextField();
39
              mNameLabel = new javax.swing.JLabel();
              mPriceLabel = new javax.swing.JLabel();
40
41
              menuPrice = new javax.swing.JTextField();
42
              mDescLabel = new javax.swing.JLabel();
43
              menuImage = new javax.swing.JButton();
44
              catDropdown = new javax.swing.JComboBox<>();
              mCategoryLabel = new javax.swing.JLabel();
45
46
              addMenu = new javax.swing.JButton();
47
              jScrollPane3 = new javax.swing.JScrollPane();
48
              menuDescription = new javax.swing.JTextArea();
49
              jMenuBar1 = new javax.swing.JMenuBar();
              file = new javax.swing.JMenu();
50
51
              fileOpen = new javax.swing.JMenuItem();
52
               fileSave = new javax.swing.JMenuItem();
53
              fileExport = new javax.swing.JMenuItem();
54
              help = new javax.swing.JMenu();
55
              helpInstruction = new javax.swing.JMenuItem();
56
               // </editor-fold>
57
              JGridLayout1
103
              setDefaultCloseOperation(operation:javax.swing.WindowConstants.EXIT_ON_CLOSE);
104
              currentLabel.setText( text: "Current Menu ");
105
              menuList.setModel(new javax.swing.AbstractListModel<String>() {...6 lines });
106
112
              jScrollPane1.setViewportView(view:menuList);
113
114
              moveUp.setText( text: "Move Up");
115
              moveUp.addActionListener((java.awt.event.ActionEvent evt) -> {
                  moveUpActionPerformed(evt);
```

```
moveDown.setText( text: "Move Down");
119
120
                moveDown.addActionListener((java.awt.event.ActionEvent evt) -> {
121
                   moveDownActionPerformed(evt);
122
123
124
                menuDelete.setText(text: "Delete");
125
                menuDelete.addActionListener((java.awt.event.ActionEvent evt) -> {
                   menuDeleteActionPerformed(evt);
126
127
128
129
                javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(host:jPanel2);
                 Panel2.setLayout(mgr:jPanel2Layout);
131
                jPanel2Layout.setHorizontalGroup(
                    group: jPanel2Layout.createParallelGroup(alignment: javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(group:jPanel2Layout.createSequentialGroup()
                        .addGroup(group:jPanel2Layout.createParallelGroup(alignment:javax.swing.GroupLayout.Alignment.TRAILING)
134
                             .addGroup(group:jPanel2Layout.createSequentialGroup()
                                .addGap(min:15, pref:15, max:15)
.addGroup(group:jPanel2Layout.createParallelGroup(alignment:javax.swing.GroupLayout.Alignment.LEADING)
136
137
138
                                     .addGroup(group:jPanel2Layout.createSequentialGroup()
139
                                         .addComponent(component:currentLabel)
140
                                          .addGap(min: 0, pref: 45, max: Short.MAX_VALUE))
                             .addComponent(component:jSeparator3, alignment:javax.swing.GroupLayout.Alignment.TRAILING)))
.addGroup(group:jPanel2Layout.createSequentialGroup()
141
142
                                .addContainerGap(pref:javax.swing.GroupLayout.DEFAULT_SIZE, max:Short.MAX_VALUE)
144
                                 .addGroup(group:jPanel2Layout.createParallelGroup(alignment:javax.swing.GroupLayout.Alignment.LEADING, resizable:false)
                                     .addComponent(component: menuDelete, slignment: javax.swing.GroupLayout.Alignment.TRAILING, min: javax.swing.GroupLayout.DEFAUI
145
146
                                     .addComponent(component: moveDown, slignment: javax.swing.GroupLayout.Alignment.TRAILING, min: javax.swing.GroupLayout.DEFAULT
147
                                     .addComponent(component:moveUp, alignment:javax.swing.GroupLayout.Alignment.TRAILING, min:javax.swing.GroupLayout.DEFAULT_Si
148
                                     .addComponent(component:jScrollPanel, alignment:javax.swing.GroupLayout.Alignment.TRAILING))))
                         .addContainerGap())
149
                jPanel2Layout.setVerticalGroup(
152
                      roup: jPane12Layout.createParallelGroup(alignment:javax.swing.GroupLayout.Alignment.LEADING)
153
                    .addGroup(group:jPanel2Layout.createSequentialGroup()
154
                         .addPreferredGap(type:javax.swing.LayoutStyle.ComponentPlacement.RELATED)
156
                        .addComponent(component)Separator3, min:javax.swing.GroupLayout.PREFERRED_SIZE, pref: 10, max:javax.swing.GroupLayout.PREFERRED_SIZE)
157
                         .addPreferredGap( type: javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(component: jScrollPane1, min: javax.swing.GroupLayout.DEFAULT SIZE, pref: 160, max: Short.MAX VALUE)
159
                        .addPreferredGap(type:javax.swing.LayoutStyle.ComponentPlacement.RELATED)
160
                         .addComponent(component:moveUp, min:javax.swing.GroupLayout.PREFERRED_SIZE, pref:14, max:javax.swing.GroupLayout.PREFERRED_SIZE)
161
                        .addPreferredGap(type:javax.swing.LayoutStyle.ComponentPlacement.RELATED)
162
                        .addComponent(component:moveDown, mis:javax.swing.GroupLayout.PREFERRED_SIZE, pref: 14, max:javax.swing.GroupLayout.PREFERRED_SIZE)
163
                         .addPreferredGap( type: javax.swing.LayoutStyle.ComponentPlacement RELATED)
                        .addComponent(component menuDelete, min: javax.swing.GroupLayout.PREFERRED SIZE, pref: 14, max: javax.swing.GroupLayout.PREFERRED SIZE)
164
165
                        .addContainerGap())
166
               );
167
168
                categoryLabel.setText( text: "Create Category");
171
                catName.setText( t: "catName");
172
                cNameLabel.setText( text: "Name");
174
175
                addCategory.setText( text: "Add");
176
                addCategory.addActionListener((java.awt.event.ActionEvent evt) -> {
177
                   addCategoryActionPerformed(evt);
```

### Lines 145-147 Continued:

```
:.DEFAULT_SIZE, pref:javax.swing.GroupLayout.DEFAULT_SIZE, max:Short.MAX_VALUE)

DEFAULT_SIZE, pref:129, max:Short.MAX_VALUE)

FAULT_SIZE, pref:javax.swing.GroupLayout.DEFAULT_SIZE, max:Short.MAX_VALUE)
```

```
179
                // <editor-fold defaultstate="collapsed" desc="jPanel2">
                javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(host: jPanel3);
181
                 Panel3.setLayout(mgr:jPanel3Layout);
182
                jPanel3Layout.setHorizontalGroup(
                     group: jPanel3Layout.createParallelGroup(alignment: javax.swing.GroupLayout.Alignment.LEADING)
183
                    .addGroup(group:jPanel3Layout.createSequentialGroup()
185
186
                         .addGroup(group:jPanel3Layout.createParallelGroup(alignment:javax.swing.GroupLayout.Alignment.LEADING)
187
                            .addComponent(component:addCategory, alignment:javax.swing.GroupLayout.Alignment.TRATLING, min:javax.swing.GroupLayout.DEFAULT_SIZE, addComponent(component:jseparator1, alignment:javax.swing.GroupLayout.Alignment.TRATLING)
189
                             .addComponent(component:jSeparator4)
190
                            .addGroup(group:jPanel3Layout.createSequentialGroup()
191
                                 .addComponent(component:categoryLabel)
                                 .addGap(min:0, pref:0, max:Short.MAX_VALUE))
193
                             .addGroup(group:jPanel3Layout.createSequentialGroup()
194
                                .addComponent(component:cNameLabel)
195
                                 .addPreferredGap( type: javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                 .addComponent(component:CatName, min:javax.swing.GroupLayout.DEFAULT_SIZE, pref:89, max:Short.MAX_VALUE)))
197
                         .addGap(min: 15, pref: 15, max: 15))
198
                jPanel3Layout.setVerticalGroup(
199
                     group: jPanel3Layout.createParallelGroup(alignment: javax.swing.GroupLayout.Alignment.LEADING)
201
                     .addGroup(group:jPanel3Layout.createSequentialGroup()
202
                        .addComponent(component:categoryLabel)
203
                        .addPreferredGap(type:javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(component:jSeparator1, min:javax.swing.GroupLayout.PREFERRED_SIZE, pref:10, max:javax.swing.GroupLayout.PREFERRED_SIZE)
205
                        .addPreferredGap(type:javax.swing.LayoutStyle.ComponentPlacement.RELATED)
206
                        .addGroup(group:jPanel3Layout.createParallelGroup(alignment:javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(component:CatName, min:javax.swing.GroupLayout.PREFERRED_SIZE, pref:javax.swing.GroupLayout.DEFAULT_SIZE, max:javax.s
207
                             .addComponent(component:CNameLabel))
                         .addPreferredGap(type:javax.swing.LayoutStyle.ComponentPlacement.RELATED)
210
                        .addComponent(component:addCategory, min:javax.swing.GroupLayout.FREFERRED_SIZE, pref:15, max:javax.swing.GroupLayout.FREFERRED_SIZE)
                        .addPreferredGap(type:javax.swing.LayoutStyle.ComponentPlacement.RELATED)
211
                        .addComponent(component:jSeparator4, min:javax.swing.GroupLayout.PREFERRED_SIZE, pref:10, max:javax.swing.GroupLayout.PREFERRED_SIZE)
213
                        .addContainerGap(pref: 161, max: Short.MAX_VALUE))
214
215
                newLabel.setText( text: "New Menu Items");
217
218
                menuName.setText( t: "itemName");
219
                mNameLabel.setText(text:"Name");
               mPriceLabel.setText(text:"Price");
223
                menuPrice.setText( t: "itemPrice");
226
                mDescLabel.setText(text: "Description");
227
                menuImage.setText( text: "Image");
229
                menuImage.addActionListener((java.awt.event.ActionEvent evt) -> {
230
                   menuImageActionPerformed(evt);
231
233
234
                DefaultComboBoxModel<String> model = new DefaultComboBoxModel<>();
235
                for (String element : category) {
                    catDropdown.addItem(item:element);
237
238
                catDropdown.setModel(aModel:model);
                mCategoryLabel.setText( text: "Category");
```

#### Line 187 Continued:

.DEFAULT SIZE, pref: javax.swing.GroupLayout.DEFAULT SIZE, max: Short.MAX VALUE)

#### Line 207 Continued:

.DEFAULT SIZE, max: javax.swing.GroupLayout.PREFERRED SIZE)

```
addMenu.setText(text:"Add");
                      addMenu.addActionListener((java.awt.event.ActionEvent evt) -> {
                           addMenuActionPerformed(evt);
                     menuDescription.setColumns(columns:20);
menuDescription.setRows(rows:5);
                      iScrollPane3.setViewportView( view: menuDescription);
                      file.setText(text:"File");
                     fileOpen.addActionListener((java.awt.event.ActionEvent evt) -> {
                          fileOpenActionPerformed(evt);
                      fileSave.setText(text: "Save");
                     fileSave.addActionListener((java.awt.event.ActionEvent evt) -> {
                          fileSaveActionPerformed(evt);
                      file.add(menuItem: fileSave);
                     file.add(menuItem:fileExport);
                      jMenuBar1.add( c: file);
                     help.setText(text: "Help");
                     helpInstruction.setText(text:"Instructions");
helpInstruction.addActionListener((java.awt.event.ActionEvent evt) -> {
                         helpInstructionActionPerformed(evt);
                      help.add(menuitem: helpInstruction);
                     jMenuBar1.add(c:help);
                      setJMenuBar (menubar: jMenuBar1);
                      javax.swing.GroupLayout layout = new javax.swing.GroupLayout(host:getContentPane());
                      getContentPane().setLayout(mgr:layout);
                      Jayout.setHorizontalGroup(
    group: layout.createParallelGroup( slignment: javax.swing.GroupLayout.Alignment.LEADING)
                           .addGroup(sligmment: javax.swing.GroupLayout.Alignment.TRAILING, group: layout.createSequentialGroup()
.addGap(min:0, pref:6, max:Short.MAX_VALUE)
.addComponent(component:jPanell, min:javax.swing.GroupLayout.PREFERRED_SIEE, pref:javax.swing.GroupLayout.DEFAULT_SIEE, max:javax.swing.GroupLayout.FREFERRED_SIEE))
                      layout.setVerticalGroup(
                           ut.setVerticalGroup(
group(a)coup(a)coup(a)coup(a)coup(a)coupLayout.Alignment.LEADING)
.addGroup(group:layout.createSequentialGroup()
.addGap(a)couplayout.greateSequentialGroup()
.addGap(a)couplayout.greateSequentialGroup()
.addComponent(openent)panell, min:javax.swing.GroupLayout.DEFAULT_SIZE, pref:javax.swing.GroupLayout.DEFAULT_SIZE, max:Short.MAX_VALUE)
.addContainerGap())
382
383
384
                     );
                     pack();
```

```
public void beipratructionActionFerformed(java.avt.event.ActionEvent evt){

JoptionPane.showDescagepialog(g parastorapeases null, "Follow these instructions to use the program: "

* "Nal. Create and add a category using the rightnost panel to begin."

* "Nal. Select an image for the item."

* "Nal. Select a category for the item from the dropdown."

* "Nal. Select a category for the item from the dropdown."

* "Nal. Select a category for the item from the dropdown."

* "Nal. Select a category for the item from the dropdown."

* "Nal. Select a category for the item from the dropdown."

* "Yelsow The Indicate and File ActionEvent evt) {

// Create a FileInputStream to read the object from a file

JFileChooser fileChooser = new DFileChooser();

// Show the file chooser and get the user's response

int response = fileChooser.showOpenDialog(swear.null);

// If the user selected a file, set the object to the object in its contents

if (response == JFileChooser.showOpenDialog(swear.null);

// Cet the selected file fileChooser.getSelectedFile();

this_modilst = null; // the object you want to set

// Cet the selected file

File selectedFile fileChooser.getSelectedFile();

try (ObjectInputStream ois = new ObjectInputStream(size.selectedFile))) {

this_modilst = (arraybits) ois.readObject();

cathoragedown.removallitems();

//Remove all prexisting categories in the dropdown, and add the categories from the new menu cathoragedown.removallitems();

for(String cat:modilst.getCat()) {

cathorageon.addftem(imm(cat));

// Cathorageon.addftem(imm(cathorageon);

// Cathorageon.addftem(imm(cathorageon);

// Cathorageon.addftem(imm(cathorageon);

// Cathorageon.addftem(imm(cathorageon);

// Cathorageon.addftem(imm(cathorageon);

// Cathorageon.addftem(imm(
```

```
447
            reader = new BufferedReader(new FileReader(file; selectedFile));
            html = new StringBuilder();
448
            while ((line = reader.readLine()) != null) {
449
               if (line.contains(key[1])) {
451
452
                  for(int i =0;i<mcdlist.getCat().size();i++){</pre>
                    454
                             <h3>"+mcdlist.getCat().get(index:i)+"</h3>\n" +
455
 456
                            </div>\n"
                     + "<div class=\"row gy-5\">\n");
457
                     for(int j =0;j<mcdlist.getMenu().size();j++){</pre>
458
                       459
462
                               <h4>"+mcdlist.getMenu().get(index:j).getName()+"</h4>\n" +
                               463
464
                               \n" +
465
                               \n" +
466
467
                                 "+mcdlist.getMenu().get(index:j).getPrice()+"\n" +
468
                               \n" +
                              </div>");
469
470
471
                  html.append(line + "\n");
474
               } else {
                  html.append(line + "\n");
 <u>Q</u>
476
477
 478
            reader.close();
479
            // Write the modified HTML content to the file
480
481
            selectedFile = new File(currentDirectory + File.separator + "index.html");
            writer = new PrintWriter(file:selectedFile);
483
            writer.print(s:html.toString());
484
            writer.close();
485
486
```

### Line 461 Continued:

 $< img src=\\""+mcdlist.getMenu().get(index:j).getUrl()+"\\" class=\\"menu-img img-fluid\\" alt=\\"\"></a>\\n" + nurreal img-fluid | nurreal img-fluid$ 

```
9 □
               private void fileSaveActionPerformed(java.awt.event.ActionEvent evt) {
 488
                     //Create a FileInputStream to read the object from a file
 489
                     JFileChooser fileChooser = new JFileChooser():
 490
                     fileChooser.setFileSelectionMode( mode: JFileChooser.DIRECTORIES_ONLY);
 491
                     //Show the file chooser and get the user's response
                     int result = fileChooser.showSaveDialog(parent: this);
 492
 493
                     //If the user selected a file, write the object to it
 494
                     if (result == JFileChooser.APPROVE_OPTION) {
                          File selectedDirectory = fileChooser.getSelectedFile();
 495
 496
                          try {
                               File newFile = new File(parent: selectedDirectory, child: "menu.txt");
 497
 498
                               if (!newFile.exists()) {
 499
                                    newFile.createNewFile();
 500
 501
                               // Store an object in the file
                               try (ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream(file:newFile))) {
 502
 503
                                     oos.writeObject(obj:mcdlist);
 504
 505
                               HTMLedit(mcdlist);
                          } catch (IOException e) {
 506
 507
                               e.getMessage();
 508
 509
 510
 511
               private arrayLists sortMenu(arrayLists mcdlist) {
 512
                     //Create temporary arrayList to hold sorted menu items
 513
                     ArrayList<foodItem> temp = new ArrayList<>();
 514
                     for(String i : mcdlist.getCat()){
 515
                          for(foodItem j : mcdlist.getMenu()){
                                //If the category of the menu item matches the current category, add it to the temporary arrayList
 516
 517
                                if(j.getCat().equals(anobject:i)){
                                     temp.add(e:j);
 518
 519
 520
 521
 522
                     mcdlist.menu=temp;
 523
                     return mcdlist;
 524
 525
527
528
529
          private arrayLists addMenuActionPerformed(java.awt.event.ActionEvent evt) {
              if((String)catDropdown.getSelectedItem() ==null){
   String warningMessage = "Make sure to apply a Category";
                  JOptionPane.showMessageDialog(parentComponent: Null, message: warningMessage, title: "Warning", messageType: JOptionPane.WARNING_MESSAGE);
530
531
               } else if (selectedImage==null) {
String warningMessage = "Make sure to select an image";
532
533
                  JOptionPane.showMessageDialog(parentcomponent:null, message:warningMessage, title:"Warning", messageType:JOptionPane.WARNING_MESSAGE);
                  return mcdlist;
534
535
536
                  for(foodItem element : mcdlist.getMenu()){
                      | String warningMessage = "A food item already has this name";
| JOptionPane.showMessageDialog(parentcomponent:null, message:warningMessage, title:"Warning", messageType:JOptionPane.WARNING_MESSAGE);
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
              // Now you can use the filePath variable to get the location of the selected image.
File sourceFile = selectedImage;
String imagefilepath = selectedImage.getPath();
String currentDirectory = System.getProperty(key:"user.dir");
              File destinationFile = new File(current)irectory + File.separator + "assets" + File.separator + "img" + File.separator + sourceFile.getName());
                  Files.copy(source:sourceFile.toPath(), target:destinationFile.toPath(), options:StandardCopyOption.REPLACE_EXISTING);
              } catch (IOException e) {
553
554
                  e.getMessage();
555
556
557
               mcdlist.getMenu().add(new foodItem( mass: menuName.getText(), price: menuPrice.getText(), desc: menuDescription.getText(), (String) catDropdown.getSelectedItem(), url: imagefilepath));
              updateMenuList(mcdlist);
558
559
              return mcdlist;
```

```
Q □ 562
             private arrayLists moveUpActionPerformed(java.awt.event.ActionEvent evt) {
                   int i = menuList.getSelectedIndex();
563
                   sortMenu(mcdlist);
564
                   // If the selected item is not the first item in the list, move it up one position
565
566
                        for(int j=0;j<mcdlist.getCat().size();j++){</pre>
                             // If the selected item is a category and it is not the first category, swap it with the preceding category
567
                            if(mcdlist.getCat().get(index:j).equals(anobject:display.get(index:j))){
    String temp = mcdlist.getCat().get(j-1);
568
569
570
                                  mcdlist.getCat().set(j-1, element: mcdlist.getCat().get(index:j));
571
                                  mcdlist.getCat().set(index:j, element:temp);
572
                                  updateMenuList(mcdlist);
573
                                  return mcdlist;
574
575
576
                        for(int j=1;j<mcdlist.getMenu().size();j++){</pre>
                            // If the selected item is a menu item and it is not the first menu item in its category, swap it with the preceding menu item if(mcdlist.getMenu().get(index:j).getName().equals(anobject:display.get(index:i).substring(beginIndex:3))&&mcdlist.getMenu().get(index:foodItem temp = mcdlist.getMenu().get(j-1);
577
578
579
580
                                  mcdlist.getMenu().set(j-1, element: mcdlist.getMenu().get(index:j));
581
                                  mcdlist.getMenu().set(index:j, element:temp);
582
                                  updateMenuList(mcdlist);
583
584
585
586
                   return mcdlist;
587
```

### Line 578 Continued:

шепи ттеш

().get(index:j).getCat().equals(anObject:mcdlist.getMenu().get(j-1).getCat())){

# Line 607 Continued:

```
.get(index:j).getCat().equals(anobject:mcdlist.getMenu().get(j+1).getCat())){
```

```
private arrayLists menuDeleteActionPerformed(java.awt.event.ActionEvent evt) {
                    int i = menuList.getSelectedIndex();
619
620
                    // If an item is selected in the menu list
621
                    if(i!=-1){
                         for(int j=0;j<mcdlist.getCat().size();j++){</pre>
622
623
                              // If the selected item is a category, remove it and all the menu items in that category from the arrayLists object
                              if(display.get(index:i).equals(anobject: mcdlist.getCat().get(index:j))){
 624
625
                                   catDropdown.removeItemAt(anIndex:j);
626
                                   for(int k=mcdlist.getMenu().size()-1;k>=0;k--){
                                        // If the menu item is in the selected category, remove it from the arrayLists object
627
                                        if(mcdlist.getMenu().get(index:k).getCat().equals(anobject mcdlist.getCat().get(index:j))){
628
629
                                            mcdlist.getMenu().remove(index:k);
630
631
632
                                   mcdlist.getCat().remove(index:j);
                                  updateMenuList(mcdlist);
633
634
                                   return mcdlist;
635
636
637
                         for(int j=mcdlist.getMenu().size()-1;j>=0;j--){
                              // If the selected item is a menu item, remove it from the arrayLists object
638
                              if (display.get(index:i).substring(beginIndex:3).equals(anobject:mcdlist.getMenu().get(index:j).getName())){
639
640
                                 mcdlist.getMenu().remove(index:j);
641
642
                         updateMenuList(mcdlist);
643
644
645
                    return mcdlist;
646
647
            private void updateMenuList(arrayLists mcdlist){
648
                 display.clear();
649
                 for(int i =0;i<mcdlist.getCat().size();i++){
                     display.add(e:mcdlist.getCat().get(index:i));
650
651
                     for(int j=0;j<mcdlist.getMenu().size();j++){</pre>
                                                is in the curre
                                                                               add it to the display list
653
654
                          if (mcdlist.qetMenu().qet(index:j).qetCat().equals(anobject:mcdlist.qetCat().qet(index:j))){
                            display.add(" - "+mcdlist.getMenu().get(index:j).getName());
655
656
657
658
659
                 // Set the model of the menu list to the display list menuList.setModel(new javax.swing.AbstractListModel<String>() {
660
①
                     @Override
                     public int getSize() { return display.size(); }
@Override
662
①
                     public String getElementAt(int i) { return display.get(index:i); }
664
665
65
     private arrayLists addCategoryActionPerformed(java.awt.event.ActionEvent evt) {
                 // Check if the arrayLists object already has a categ
if(!mcdlist.getCat().contains(o:catName.getText())){
                                                                           gory with the same
668
669
670
                     mcdlist.getCat().add(e:catName.getText());
catDropdown.addItem(item:catName.getText());
671
672
                     updateMenuList(mcdlist);
                     String warningMessage = "Already have a category with this same name";
673
                     JOptionPane.showMessageDialog(parentcomponent: null, message: warningMessage, title: "Warning", messageType: JOptionPane.WARNING_MESSAGE);
675
676
                 return mcdlist;
677
9
679
            private File menuImageActionPerformed(java.awt.event.ActionEvent evt) {
                 JFileChooser fileChooser = new JFileChooser();
fileChooser.setDialogTitle(dialogTitle: "Select an image file");
fileChooser.setFileFilter(new FileNameExtensionFilter(description: "Image files", extensions: "jpg", extensions: "png", extensions: "gif", extensions: "bmp"));
680
681
                 int result = fileChooser.showOpenDialog(parent;null);
if (result == JFileChooser.APPROVE_OPTION) {
    return selectedImage = fileChooser.getSelectedFile();
682
684
                 return selectedImage =null;
686
```

```
690
            * @param args the command line arguments
 691
 692
 693
            public static void main(String args[]) {
 694
 695
                //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
 696
 697
                try {
 698
                     for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeelS()) {
 699
                         if ("Nimbus".equals(anobject:info.getName())) {
 700
                             javax.swing.UIManager.setLookAndFeel(className:info.getClassName());
 701
                             break;
 702
 703
 №
705
                } catch (ClassNotFoundException ex) {
                   java.util.logging.Logger.getLogger(name: GUI.class.getName()).log(level:java.util.logging.Level.SEVERE, msg:null, thrown: ex);
 706
                } catch (InstantiationException ex) {
 707
                    java.util.logging.Logger.getLogger(name:GUI.class.getName()).log(leve|:java.util.logging.Level.SEVERE, msg:null, thrown:ex);
 708
                } catch (IllegalAccessException ex) {
                java.util.logging.Logger.getLogger(name:GUI.class.getName()).log(level:java.util.logging.Level.SEVERE, msg:null, thrown:ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
 709
 710
 711
                    java.util.logging.Logger.getLogger(name:GUI.class.getName()).log(level:java.util.logging.Level.SEVERE, msg:null, thrown:ex);
 712
 713
 714
 715
                /* Create and display the form */
 716
                java.awt.EventQueue.invokeLater(() -> {
 717
                    new GUI().setVisible(b:true);
 718
 719
720
            // <editor-fold defaultstate="collapsed" desc="Variable Declaration">
```

```
720
           // <editor-fold defaultstate="collapsed" desc="Variable Declaration">
           private javax.swing.JButton addCategory;
721
           private javax.swing.JButton addMenu;
722
           private javax.swing.JLabel cNameLabel;
723
           private javax.swing.JComboBox<String> catDropdown;
724
725
           private javax.swing.JTextField catName;
           private javax.swing.JLabel categoryLabel;
726
727
           private javax.swing.JLabel currentLabel;
           private javax.swing.JMenu file;
728
           private javax.swing.JMenuItem fileExport;
729
           private javax.swing.JMenuItem fileOpen;
730
           private javax.swing.JMenuItem fileSave;
731
732
           private javax.swing.JMenu help;
           private javax.swing.JMenuItem helpInstruction;
733
734
           private javax.swing.JDialog jDialog1;
           private javax.swing.JDialog jDialog2;
735
           private javax.swing.JDialog jDialog3;
736
           private javax.swing.JDialog jDialog4;
737
           private javax.swing.JMenuBar jMenuBar1;
738
739
           private javax.swing.JPanel jPanel1;
           private javax.swing.JPanel jPanel2;
740
           private javax.swing.JPanel jPanel3;
741
           private javax.swing.JPanel jPanel4;
742
           private javax.swing.JScrollPane jScrollPane1;
743
744
           private javax.swing.JScrollPane jScrollPane3;
           private javax.swing.JSeparator jSeparator1;
745
746
           private javax.swing.JSeparator jSeparator2;
747
           private javax.swing.JSeparator jSeparator3;
           private javax.swing.JSeparator jSeparator4;
748
           private javax.swing.JLabel mCategoryLabel;
749
           private javax.swing.JLabel mDescLabel;
750
751
           private javax.swing.JLabel mNameLabel;
           private javax.swing.JLabel mPriceLabel;
752
753
           private javax.swing.JButton menuDelete;
754
           private javax.swing.JTextArea menuDescription;
           private javax.swing.JButton menuImage;
755
756
           private javax.swing.JList<String> menuList;
           private javax.swing.JTextField menuName;
757
758
           private javax.swing.JTextField menuPrice;
           private javax.swing.JButton moveDown;
759
           private javax.swing.JButton moveUp;
760
           private javax.swing.JLabel newLabel;
761
762
763
           public File selectedImage = null;
           public transient ArrayList<foodItem> menu = new ArrayList<>();
764
           public transient ArrayList<String> category = new ArrayList<>();
765
           public transient ArrayList<String> display = new ArrayList<>();
766
           public arrayLists mcdlist = new arrayLists(menu, category, display);
767
768
           // </editor-fold>
769
```