

UIController.java

```

1 package project;
2
3 import java.awt.CardLayout;
23
24 /* This is the class responsible for handling or processing all the
25 * user interactions with the User Interface(View Component)
26 * This contains references to the View Component,Repository,
27 * Authentication service*/
28
29 public class UIController implements
    ActionListener,ListSelectionListener,TableModelListener,FormSaveListener{
30     private Map<String,GenericForm> forms;
31     private JTable table;
32     private TableModel tableModel;
33     private Repository repository;           //Repository where all the
    entities are stored
34     private JFrame mainFrame;           // Main Frame of the User
    Interface
35     private AuthFrame authFrame;       // Authentication frame or window
36     private View view;                 // View Component represent the
    Main Frame
37     private AuthService authService;   // Authentication Service handles
    logon
38     private User loggedInUser;         // The Logged User
39     private SearchQuery sQuery;       // Serach text entered by user in
    the Search form
40
41     public UIController(View view, Repository repository,AuthService
    authService){
56
57     /*This will add the UIController as the handler for the Logon form
58     * This will delegate processing to the UIController */
59     public void addAuthFormListeners(){
62
63     /*This will add the UIController as the handler for any user interactions
    with the components
64     * such as Search Form,Naviagtion Pane,Footer Pane, Table,
65     * This will delegate processing to the UIController */
66     public void addViewListeners(){
73
74     /*As the user navigate through the tabular list(Table), Any selection of
    record trigger List
75     * selection event and it is being handled by this method, This method update
    the forms with the
76     * correct entities by calling the "bind" method of the form. */
78     public void valueChanged(ListSelectionEvent e) {
92
93
94     /* This is the method handle most of the interactions of the User with the
    User Interface
95     * Buttons in the Navigation Pane, Buttons in the Footer Pane and Buttons in
    the Tool Pane are all
96     * processed by this method */
98     public void actionPerformed(ActionEvent e) {
227

```

UIController.java

```
228     /*This will be processed when user click "Search button" or "Save button" or
    "Logon Button" on the
229     * forms */
231     public void FormSaveOccured(FormSaveEvent event) {
282
283     /*This will be processed whenever content pane need to be updated by user
    interactions through buttons */
284     private void displayTable(ContentPane contentPane,String command){
296
297     /* This will set the correct Repository for all the forms*/
298     private void setFormRepository(Repository repository){
303
304     /* The following two utility methods are for parsing Strings and numbers*/
305     private int parseNumber(String s){
312
313     private String parseString(String s){
323
325     public void tableChanged(TableModelEvent e) {
327
328 }
329
```