

```

/**
 * Project #1
 * CS 2334, Section 10
 * 9/9/13
 * <P>
 * This class represents a data system object, which reads in a list of magazines from
 * a file. With that list, the user class can get the magazines either unfiltered, or
 * filtered by name, publisher, or date range.
 * </P>
 * @version 1.0
 */

public class DataSystemGUI extends JFrame{

    //Instance Variables
    /** Text fields to receive input */
    private JTextField inputPublisher;
    private JTextField inputMagTitle;
    private JTextField inputStartDate;
    private JTextField inputEndDate;

    /** A button that initiates a new search */
    private JButton searchButton;

    /** A label that shows all magazines which fulfill the requirements laid out by the user
    through the input fields */
    private JLabel displayLabel;

    /** The virtual data system that will be used */
    private DataSystem dataSystem;

    /**
     * Creates a new data system and sets up the GUI
     *
     * <dt><b>Conditions:</b>
     * <dd>POST - The data system is created and the GUI is set up to use.
     */
    public DataSystemGUI(){
    }

    /** Mutator Methods */

    /**
     * Sets up the GUI
     *
     * <dt><b>Conditions:</b>

```

```

* <dd>POST - The GUI is set up to use.
*/
private void init(){
}

/**
 * Reads in magazines given a file
 * @param fileName The path to the file
 */
public void loadMagazines(String fileName){
}

/**
 * Opens the GUI
 */
public void open(){
}

/**
 * Closes the GUI
 */
public void close(){
}

/**
 * <P>
 * This class is used to listen for search events. That is, the user code wants to
search the magazine list
 * for magazines
 * </P>
 * @version 1.0
 */
private class SearchListener implements ActionListener, KeyListener{
    public void actionPerformed(ActionEvent event){
    }
    public void keyPressed(KeyEvent event){
    }
    public void keyReleased(KeyEvent event){
    }
    public void keyTyped(KeyEvent event){
    }
}

/**
 * This method searches the data system for the proper magazines, then updates
the display label with its result.
 * <dt><b>Conditions:</b>

```

* <dd>POST - The display label for the magazines is updated with the proper
magazines.

```
*/  
private void search(){  
}  
}  
}
```