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package caltool.view;

import caltool.caldb.*;
import caltool.schedule.*;
import mvp.*;
import java.util.*;

/****
 *
 * Class Lists is the model class that encapsulates the View->Lists commands.
 * These are commands to list appointments, meetings, tasks, events, and all
 * items.  Lists also has a reference to the CustomLists class, which has
 * methods and data to support editing custom lists of items.
 *                                                                          <p>
 * There are couple design alternatives for this class.  In Alternative 1, the
 * way the class is currently designed, this Lists class supplies
 * array-returning methods that trace to the operations in the abstract spec.
 * These methods have been refined to return array values intstead of whole
 * model objects.  This refinement supports the companion view classes that are
 * implemented as JTables, the rows of which are easily populated with
 * array-valued data.
 *                                                                          <p>
 * Alternative 2, not currently implemented, would be patterned after the
 * current MontlyAgenda/MonthlyAgendaDisplay design.  In this version of the
 * design,, the Lists class would have data fields that point to instances of
 * AppointmentLists, etc, and each such list class would provide iterator
 * methods, a la MontlyAgenda.  In this case, the traceable
 * viewAppointmentsList method returns a (persistent) AppointmentList object
 * that serves as the appointment list factory, a la MonthlyAgenda.
 *                                                                          <p>
 * Alternative 1 is more directly traceable to the spec, and more functional in
 * style, since the return values of the methods are not persistent objects.
 * Alternative 2 can be considered more object-oriented in style, with its
 * persistent object instances and iterator methods.  I see no real qualitative
 * difference between the two designs, only a stylistic difference.
 *
 * @author Gene Fisher (gfisher@calpoly.edu)
 * @version 25jan08
 *
 */
public class Lists extends mvp.Model {

    public Lists(CalendarDB caldb) {
    }


    /**
     * List all appointments between the current list-start and list-end option
     * settings.  The default start/end setting is the three-week period
     * starting one week prior to today's date through two weeks after today's
     * date.  The list of values is returned in an array of <a href=
     * AppointmentListItem.html> AppointmentListItems </a>.
     *
     * The current implementation is a stub that returns a sample list with
     * values taken from <a href=
     * ../../../../requirements/list-viewing.html#Figure Basic Appointments List>
     * Figure 32 </a> of the requirements.
     */
    public Object[] viewAppointmentsList() {
        return generateSampleList();
    }

    /**
     * Generate a sample appointments list for initial view testing.  The list
     * is based on
     * ../../requirements/list-viewing.html#Figure Basic Appointments List>
     * Figure 32 </a> of the requirements, with additional data added to
     * reflect that which is not visible in the default 20-line view.  The data
     * were generated with the assistance of Emacs editing macros.
     */
    protected Object[] generateSampleList() {

        Vector<AppointmentListItem> list = new Vector();

        list.add(
            new AppointmentListItem(
                "Racket Ball",
                new caltool.schedule.Date("sep 17, 1998"),
                new Time("8 AM"),
                new Duration(1, 0),
                true,
                new Category("personal"),
                "Rec centre",
                Security.PublicTitle,
                Priority.Optional)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("sep 21, 1998"),
                new Time("9 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lecture",
                new caltool.schedule.Date("sep 21, 1998"),
                new Time("10 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-256",
                Security.Public,
                Priority.Must)
```

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        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lab",
                new caltool.schedule.Date("sep 21, 1998"),
                new Time("11 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-232",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Software Engineering Graduate Seminar",
                new caltool.schedule.Date("sep 21, 1998"),
                new Time("3 PM"),
                new Duration(2, 0),
                true,
                new Category("classes"),
                "14-301",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Racket Ball",
                new caltool.schedule.Date("sep 22, 1998"),
                new Time("8 AM"),
                new Duration(1, 0),
                true,
                new Category("personal"),
                "Rec centre",
                Security.PublicTitle,
                Priority.Optional)
        );

        list.add(
            new AppointmentListItem(
                "Research",
                new caltool.schedule.Date("sep 22, 1998"),
                new Time("9 AM"),
                new Duration(8, 0),
                true,
                new Category("research"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("sep 23, 1998"),
                new Time("9 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lecture",
                new caltool.schedule.Date("sep 23, 1998"),
                new Time("10 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-256",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lab",
                new caltool.schedule.Date("sep 23, 1998"),
                new Time("11 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-232",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Lunch with Microsoft",
                new caltool.schedule.Date("sep 23, 1998"),
                new Time("12 PM"),
                new Duration(1, 30),
                false,
                new Category("department"),
                "Staff dining",
                Security.Public,
                Priority.Optional)
        );

        list.add(
            new AppointmentListItem(
                "Racket Ball",
                new caltool.schedule.Date("sep 24, 1998"),
                new Time("8 AM"),
                new Duration(1, 0),
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                true,
                new Category("personal"),
                "Rec centre",
                Security.PublicTitle,
                Priority.Optional)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("sep 24, 1998"),
                new Time("1:15 PM"),
                new Duration(1, 45),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Software Engineering Graduate Seminar",
                new caltool.schedule.Date("sep 24, 1998"),
                new Time("3 PM"),
                new Duration(2, 0),
                true,
                new Category("classes"),
                "14-301",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Dentist",
                new caltool.schedule.Date("sep 25, 1998"),
                new Time("8 AM"),
                new Duration(1, 30),
                false,
                new Category("personal"),
                "1342 Sycamore Dr",
                Security.PublicTitle,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("sep 25, 1998"),
                new Time("9 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lecture",
                new caltool.schedule.Date("sep 25, 1998"),
                new Time("10 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-256",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lab",
                new caltool.schedule.Date("sep 25, 1998"),
                new Time("11 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-232",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("sep 28, 1998"),
                new Time("9 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lecture",
                new caltool.schedule.Date("sep 28, 1998"),
                new Time("10 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-256",
                Security.Public,
                Priority.Must)
        );

        list.add(
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```
            new AppointmentListItem(
                "Data Structures Lab",
                new caltool.schedule.Date("sep 28, 1998"),
                new Time("11 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-232",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Software Engineering Graduate Seminar",
                new caltool.schedule.Date("sep 28, 1998"),
                new Time("3 PM"),
                new Duration(2, 0),
                true,
                new Category("classes"),
                "14-301",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Racket Ball",
                new caltool.schedule.Date("sep 29, 1998"),
                new Time("8 AM"),
                new Duration(1, 0),
                true,
                new Category("personal"),
                "Rec centre",
                Security.PublicTitle,
                Priority.Optional)
        );

        list.add(
            new AppointmentListItem(
                "Research",
                new caltool.schedule.Date("sep 29, 1998"),
                new Time("9 AM"),
                new Duration(8, 0),
                true,
                new Category("research"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("sep 30, 1998"),
                new Time("9 A"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lecture",
                new caltool.schedule.Date("sep 30, 1998"),
                new Time("10 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-256",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lab",
                new caltool.schedule.Date("sep 30, 1998"),
                new Time("11 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-232",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "CAD Research Project Meeting",
                new caltool.schedule.Date("sep 30, 1998"),
                new Time("2:30 PM"),
                new Duration(2, 0),
                true,
                new Category("research"),
                "14-301",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Racket Ball",
                new caltool.schedule.Date("oct 1, 1998"),
                new Time("8 AM"),
                new Duration(1, 0),
                true,
                new Category("personal"),
                "Rec centre",
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                Security.PublicTitle,
                Priority.Optional)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("oct 1, 1998"),
                new Time("1:15 PM"),
                new Duration(1, 45),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Software Engineering Graduate Seminar",
                new caltool.schedule.Date("oct 1, 1998"),
                new Time("3 PM"),
                new Duration(2, 0),
                true,
                new Category("classes"),
                "14-301",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("oct 2, 1998"),
                new Time("9 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lecture",
                new caltool.schedule.Date("oct 2, 1998"),
                new Time("10 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-256",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lab",
                new caltool.schedule.Date("oct 2, 1998"),
                new Time("11 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-232",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Office Hours",
                new caltool.schedule.Date("oct 5, 1998"),
                new Time("9 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-210",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lecture",
                new caltool.schedule.Date("oct 5, 1998"),
                new Time("10 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-256",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Data Structures Lab",
                new caltool.schedule.Date("oct 5, 1998"),
                new Time("11 AM"),
                new Duration(1, 0),
                true,
                new Category("classes"),
                "14-232",
                Security.Public,
                Priority.Must)
        );

        list.add(
            new AppointmentListItem(
                "Software Engineering Graduate Seminar",
                new caltool.schedule.Date("oct 5, 1998"),
```

```
560                 new Time("3 PM"),
561                 new Duration(2, 0),
562                 true,
563                 new Category("classes"),
564                 "14-301",
565                 Security.Public,
566                 Priority.Must)
567         );
568
569         list.add(
570             new AppointmentListItem(
571                 "Racket Ball",
572                 new caltool.schedule.Date("oct 6, 1998"),
573                 new Time("8 AM"),
574                 new Duration(1, 0),
575                 true,
576                 new Category("personal"),
577                 "Rec centre",
578                 Security.PublicTitle,
579                 Priority.Optional)
580         );
581
582         list.add(
583             new AppointmentListItem(
584                 "Research",
585                 new caltool.schedule.Date("oct 6, 1998"),
586                 new Time("9 AM"),
587                 new Duration(8, 0),
588                 true,
589                 new Category("research"),
590                 "14-210",
591                 Security.Public,
592                 Priority.Must)
593         );
594
595         return list.toArray();
596
597     }
598
599 }
```