CalendarHub Analysis Model

Submitted to:

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Revision Control

History Revision:

Revision	Person Responsible	Version	Modification
Date		Number	
10/21/16	Jairus John A. Garcia	1.0	Initial Document; added classes
10/21/16	Diane Abegail B. Recuerdo	1.0	Added classes and their corresponding descriptions
10/21/16	Jan Daniel Laborada	1.0	Added diagram.

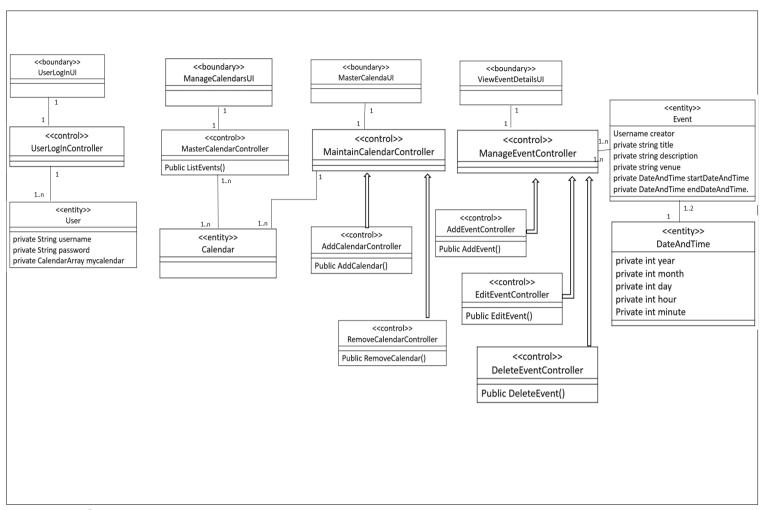
Purpose:

This document aims to provide an overview on the methods to be implemented in the system and the relationships among these.

Audience:

Any interested party in reviewing or knowing more about the project.

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System Name: Calendar Record Maintenance System

Description: The system is designed to handle the data provided by the users and the developers.

It also includes the showing of existing information in the system. Constant error-

checking is also embedded in the system.

Class Diagram:

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Boundary Classes:

Class Name	Description
UserLogInUI	This class will display the log in page of the user. It would have input fields for the user's username and password and a button to submit the input credentials. This boundary class would be driven by UserLogInController.
MasterCalendarUI	This user interface will show a monthly view of events. The events would be displayed on a typical month-view calendar. From this UI, the user can go to ViewEventDetailsUI by clicking on an event on the calendar or creating a new event or to the ManageCalendarsUI by clicking the Manage Calendar button. This events on this UI is managed by the MasterCalendarContoller.
ViewEventDetailsUI	This UI will show the details of an event (see Event entity for a complete list of attributes of an event). Through this UI, the user would be able to either edit or delete the selected event or input create a new event.
ManageCalendarsUI	This UI will display a list of all calendars that the user can view. From the list the user can choose to remove another user's calendar. It will also have a text field for inputting a calendar code to add to the list.

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Control Classes:

Class Name	Description
UserLogInController	This controller enables the validation of the log in credentials the user ha input against the users in the database. The controller would direct to the MasterCalendarUI if the log in is successful.
MasterCalendarController	This controller manages the viewing of events (by month) in the MasterCalendarUI. Under this controller is the ListEvents method which generates a list of events given the user's calendar list and the year and month to be viewed.
ManageEventController	This controller enables the user to modify the events database through three component controllers – AddEventController, EditEventController, and DeleteEventController.
AddEventController	This controller is composed of the AddEvent method. This method adds a newly created event to the user's own calendar and the calendars corresponding events data by transforming the textfields content into an event's attributes.
EditEventController	This controller is composed of the EditEvent method. This method edits the details of a previously created event that was selected by the user. This controller will update the event's details in the database as well.
DeleteEventController	This controller is composed of the DeleteEvent method. This method deletes the user's selected event. This controller will remove the event as well from the database.
MaintainCalendarController	This controller is composed of two controllers, AddCalendarController and RemoveCalendarController. This enables the user to manage the list of calendars that the user can view.
AddCalendarController	This controller manages the addition of a new calendar to the users list of calendars. It contains the AddCalendar method which takes in the user and the code of the calendar to be added and updates the user's calendarList if the action is successful.
RemoveCalendarController	This controller manages the removal of a calendar from the users list of calendars. It contains the RemoveCalendar method which takes in the user and the calendar to be removed and updates the user's calendarList if the action is successful.

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Entity Classes:

Class Name	Description
User	This entity represents the user and all information necessarily accessible to the entity. It is composed of a username(string), a password(string), and mycalendar(array of calendars).
Event	An event is a calendar entry. It is composed of event creator(username), title(string), description(string), venue(string), startDateAndTime(DateAndTime), endDateAndTime(DateAndTime).
DateAndTime	This entity is simply a representation of a date and time. It is composed of year(integer), month(integer), day(integer), hour(integer), and minute(integer).
Calendar	A calendar is essentially a list of events; a calendar is a pointer to head of a list of events.

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