

CalendarHub

Data Design Document

Submitted to:

Asst. Prof. Ma. Rowena C. Solamo
Faculty Member
Department of Computer Science
College of Engineering
University of the Philippines, Diliman

Submitted by:
Jairus John Garcia
Jan Daniel Laborada
Diane Abegail Recuerdo

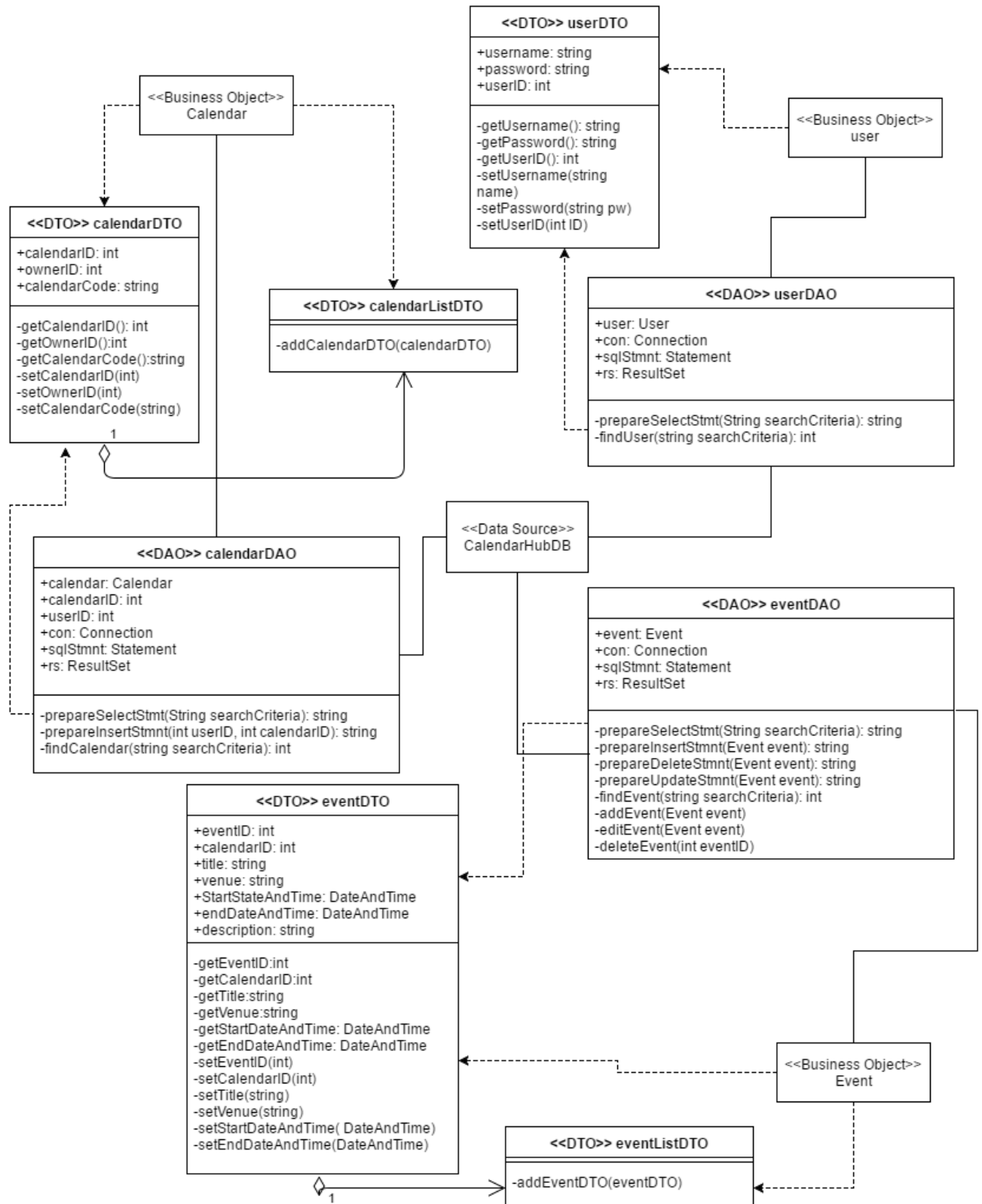
In partial fulfillment of Academic Requirements
for the course
CS 191 Software Engineering I
of the
1st Semester, AY 2016-2017

Revision Control

History Revision:

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Modification</i>
11/24/16	Diane Abegail Recuerdo	1.0	Initial Document; Added Class Diagram; Added Database Tables

Data Design:



Data Access Object (DAO) Classes:

Class Name	Description
userDAO	Encapsulates user-specific information.
calendarDAO	Manages calendar related information.
eventDAO	Handles the altering of database with regards to calendar events.

TransferObject Classes:

Class Name	Description
userDTO	A DTO to facilitate the transfer of user particular information.
calendarDTO	A DTO to facilitate the transfer of calendar related information.
calendarListDTO	A container for multiple calendar DTOs.
eventDTO	A DTO to facilitate the transfer of event related information.
eventListDTO	A container for multiple event DTOs.

List of Data Source:

Data Source Name: CalendarHubDB

Description: A database of all persistent information for the system of CalendarHub. It is composed of four tables – the UserTable, the CalendarTable, the EventTable, and the UserCalendarTable.

The UserTable has three columns – UserID (primary key, autoincrement, unique), Username (text size 20, unique, not null) and Password (text size 25, not null, at least 6). It holds the necessary information for account related actions such as logging in.

The CalendarTable has three columns – CalendarID (primary key, autoincrement, unique), UserID (foreign key, not null), and CalendarCode (text size 25, not null, at least 6). It contains the information related to a calendar.

The EventTable has nine columns – EventID (primary key, autoincrement, unique), CalendarID (foreign key, not null), Title (text size 25, not null, at least 6), Venue (text size 50,), StartDate (general date, not null), StartTime (24-hour format, default = 00:00), EndDate (general date, default = StartDate), EndTime (24-hour format, default = 23:59), and Description (text size 100).

The UserCalendarTable has two columns – UserID (foreign key, not null) and CalendarID (foreign key, not null). This will map the user to the calendars he/she can view.

Sample Tables from the Database:

UserTable

UserID	Username	Password
1	drecuerdo	DB81CD5F59443B
2	jgarcia	F717F9E6146512
3	jlaborada	B9D1CC24BD4D22

CalendarTable

CalendarID	UserID	CalendarCode
1	1	F3F2C9
2	3	505F84

EventTable

Event ID	Calendar ID	Title	Venue	StartDate	StartTime	EndDate	EndTime	Description
1	1	Birthday	Bahay	06/26/2016	00:00	06/26/2016	23:59	My Birthday this year.
2	2	CS 191 Deadline		11/18/2016	17:00	11/18/2016	17:00	CS 191 Workshop 10 & 11 Deadline
3	2	CS 150	Engg	11/25/2016	12:00	11/25/2016	17:00	CS 150 MP

		Do-Day	Lib 2, ERG					do day with groupmates.
4	2	SET Period		11/16/2016	00:01	11/30/2016	23:59	

UserCalendarTable

UserID	CalendarID
1	1
2	2
3	2