CalendarHubData 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

System: CalendarHub Page 1
Version: 1.0 Group: Noldea

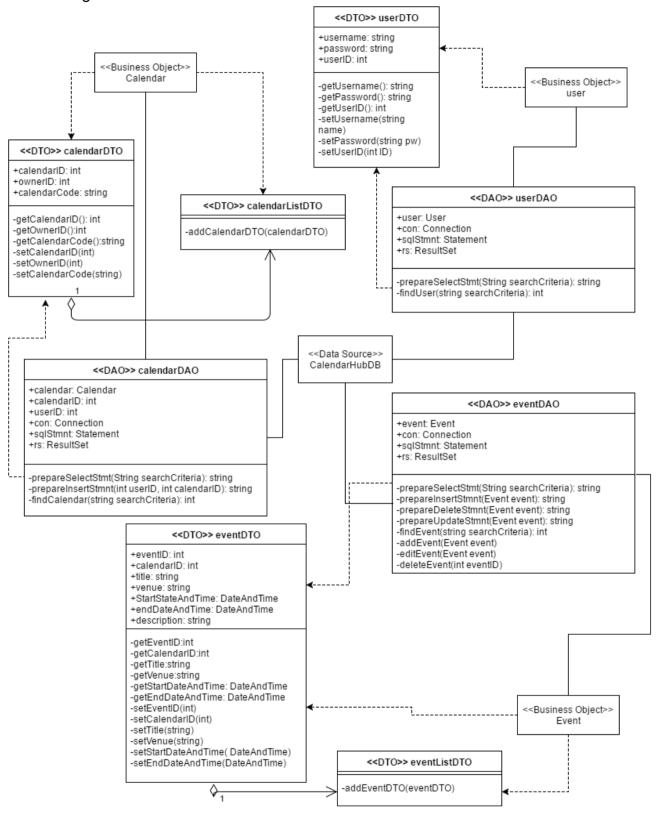
Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Modification
11/24/16	Diane Abegail Recuerdo	1.0	Initial Document; Added Class Diagram; Added Database Tables
12/5/16	Jan Daniel Laborada	1.1	Changes in Database Tables according to the comments of Ma'am Solamo. Also added columns to tables for version verification and user basic information. Edited and updated table description.

System: CalendarHub
Version: 1.0
Page 2
Group: Noldea

Data Design:



System: CalendarHub
Version: 1.0
Page 3
Group: Noldea

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.

System: CalendarHub Version: 1.0 Page 4 Group: Noldea

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.

System: CalendarHub
Version: 1.0
Page 5
Group: Noldea

List of Data Source:

It holds the necessary information for account related actions such as logging in, viewing basic user info, and contacting user.

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.

- 1.) The UserTable has **six** columns. It holds the necessary information for account related actions such as logging in, viewing basic user info, and contacting user.
 - UserID (primary key, autoincrement, unique)
 - Username (text size 20, unique, not null, unique)
 - Password (text size 25, not null, at least 6)
 - FirstName(text size 20, not null,at least 1)
 - LastName(text size 20, not null, at least 1)
 - EmailAddress(text size 20, not null at least 7, unique).
- 2.) The CalendarTable has **six** columns. It contains the information related to a calendar. including the dated it was created and the last date and time it was updated to check activity and to inform users of being up to date or not up to date.
 - CalendarID (primary key, autoincrement, unique)
 - UserID (foreign key, not null)
 - DateCreated(dd/mm/yyyy format, auto-generated)
 - LastEditTime(24-hour format,auto-generated)
 - LastEditDate(dd/mm/yyyy format,auto-generated)
 - CalendarCode (text size 25, not null, at least 6).
- 3.) The EventTable has nine columns. It contains information that can be viewed by the user who have access. All ,except the CalendarID and EventID, will be displayed in the Calendar view.
 - 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)
 - Description (text size 100).
- 4.) The UserCalendarTable has five columns. The Calendar will be shown at the calendar list (GUI) based on the UserCalendarRanking either set by the user or generated automatically. It also contains information to be used in checking if the current calendar information is up to date, or if a refresh is need. Calendars will also be listed according to the CalendarRanking column.
 - UserID (foreign key, not null)
 - CalendarID (foreign key, not null)

System: CalendarHub Page 6 Version: 1.0 Group: Noldea

- CalendarViewLastUpdateTime(24 Hour format, auto-generated)
- CalendarViewLastUpdateDate(dd/mm/yyyy format,auto-generated)
- UserCalendarRankingThis(primary key,autoincrement)

Sample Tables from the Database:

UserTable

UserID	Username	Password	FirstName	LastName	EmailAddress
1	drecuerdo	DB81CD5F59443B	Diane	Recuerdo	drec@gmail.com
2	jgarcia	F717F9E6146512	Jairus John	Garcia	jgar@gmail.com
3	jlaborada	B9D1CC24BD4D22	Jan Daniel	Laborada	Jlaborada.97@gmail.com

CalendarTable

CalendarID	UserID	CalendarCode	DateCreated	LastEditTime	LastEditDate
1	1	F3F2C9	10/5/16	13:01:45	12/1/2016
2	3	505F84	10/6/16	11:06:55	11/5/2016

EventTable

Event ID	Calendar ID	Title	Venue	StartDate	StartTi	EndDate	EndTim	Description
ID	ID				me		е	
1	1	Birthday	Bahay	06/26/2016	00:00	06/26/2016	23:59	My Birthday
								this year.
2	2	CS 191	-	11/18/2016	17:00	11/18/2016	17:00	CS 191
		Deadline						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,					do day with
			ERG					groupmates.
4	2	SET	-	11/16/2016	00:01	11/30/2016	23:59	-
		Period						

UserCalendarTable

UserID	CalendarID	UserCalendarRanking	CalendarViewLastUpdateTime	CalendarViewLastUpdateDate
1	1	2	11:33:16	11/6/2016
2	2	1	23:43:21	11/10/2016
3	2	3	8:50:01	11/9/2016

System: CalendarHub Version: 1.0 Page 7 Group: Noldea