DCS Codex Notification System Data Design Document

Submitted to:

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Unique Reference:

The documents are stored in this folder:

https://github.com/theswinghobo/DCSCodexApp/tree/master/03-Design%20Engineering

Document Purpose:

The purpose of this document is to map out our projected design for the database. It is also in partial fulfillment of CS 191 requirements.

Target Audience:

The target audience is Ma'am Solamo, the professor of CS 191, who will be checking our design. It's also for our reference in the process of our project making.

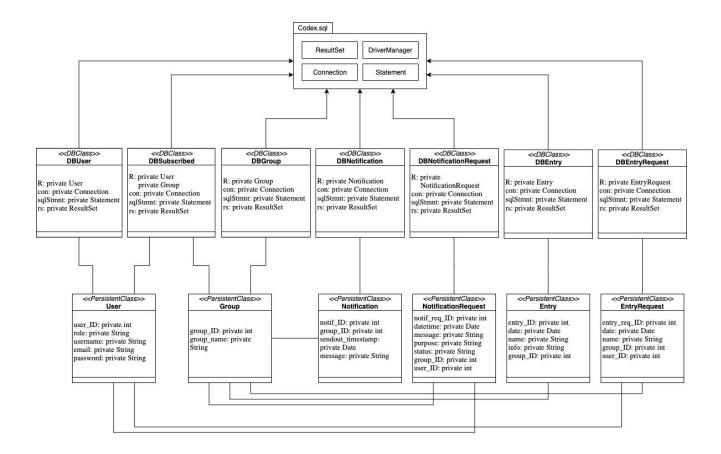
Revision Control

History Revision:

Revision Date	Person Responsible	Version	Contribution/Modification
2 000		Number	
10/23/19	Anica Galano	1.0	Initial document edits
10/24/19	Ken Tabagan	1.1	Initial edits to DBClasses, Persistent Classes. Edits to Logical Database Design and initial tables.
10/24/19	Anica Galano	1.2	Edits and added to DBClasses/Persistent Classes and "DCS Codex App Database" tables
10/25/19	Rog Isidro	1.3	Added Data Design Class Diagram

Version: 1.3

Data Design:



System: DCS Codex Notification System
Version: 1.3

DBClasses:

Class Name	Description
DBUser	This DBClass is responsible for getting User data from the database.
DBGroup	This DBClass is responsible for getting Group data from the database.
DBNotification ThisDBClass is responsible for getting Notification data from the database.	
DBNotificationRequest	This DBClassis responsible for getting NotificationRequest data from the database.
DBEntry This DBClass is responsible for getting Entry data from the database	
DBEntryRequest This DBClass is responsible for getting EntryRequest data from the data	
DBSubscribed	This DBClass is responsible for getting Subscribed data from the database.

Persistent Classes:

Class Name Description	
User	This persistent class is responsible for holding a user record.
Group	This persistent class is responsible for holding a group record.
Notification	This persistent class is responsible for holding a notification record.
NotificationRequest	This persistent class is responsible for holding a notification request record.
Entry This persistent class is responsible for holding an entry record.	
EntryRequest	This persistent class is responsible for holding an entry request record.

System: DCS Codex Notification System Version: 1.3

Database Name: DCS Codex App Database

Description: This is the database that contains tables related to the DCS Codex and the DCS Codex

Notification System.

Tables	Descriptions
User	It contains the records of all users registered to the application.
Group	It contains the record of all group categories.
Subscribed	It contains all records of user-group pairs (i.e. user subscribed to group/s)
Notification	It contains all records of notifications.
Notification Request	It contains all records of notification requests.
Entry	It contains all records of entries.
Entry Request	It contains all records of entry requests.

Logical Database Design:

STORE

Number	Name			Address	
SMALLINT	VARCHAR (250)			VARCHAR (250)	
99		X(250)			
PK, UA, ND1		NN, ND1			
10	GangStore	in	Alabama	Alabama	
20	GangStore	in	West Virginia	West Virginia	
30	GangStore	in	North Dakota	NorthDakota	

EMPLOYEE

Number	LastName	FirstName	MiddleName	Store	Manager	Date Hired	d
SMALLINT	VARCHAR(100)	VARCHAR(100)	CHAR(4)	SMALLINT	SMALLINT	DATE	
9999	X(100)	X(100)	X(100)	99	9999	Mon dd, y	уууу
PK, UA	NN	NN		NN, FK		NN, NC	
5001	Cruz	Juan	Martinez	10	5000	Dec 25,	2005
5002	Enriquez	Sheila	San Pedro	10	5001	Jun 4,	2008
5003	Ferrer	Grace	Atienza	20	5000	Jan 16,	1997
5004	Franz	Jane	Solamo	20	5003	Jan 4,	1998

ITEM

Code	Description
SMALLINT	VARCHAR (250)
99	X(250)
PK, UA	NN
1001	Wheat Germs
1002	White Peppers
1003	Iodized Salts
1004	Oregano
1005	Basil Leaves

version: 1.3 Group: 5

User

user_ID	role	username	email	password
INT	VARCHAR(5)	VARCHAR(15)	VARCHAR(50)	VARCHAR(60)
99999	X(5)	X(15)	X(50)	X(60)
PK, SA	NN	NN, ND	NN, ND	NN
1	user	apgalano1	apgalano1@up.edu.ph	1nsfbh3bfvnjknf
2	admin	ktabagan1	ktabagan1@up.edu.ph	efmskfmi643nj3
3	user	risidro1	risidro1@up.edu.ph	dsfjnjai423njdfsi

Group

group_ID	group_name
INT	VARCHAR(50)
PK, SA	NN, ND
1	All
2	DCS Servers
3	CS 191

Subscribed

user_ID	group_ID
INT	INT
99999	99999
PK,FK	PK,FK
1	1
1	2
3	1

Notification

notif_ID	group_ID	sendout_timestamp	message
INT	INT	DATETIME	VARCHAR(250)
99999	99999	YYYY-MM-DD	X(250)
PK, SA	FK, NN	NN	NN
1	1	2019-10-31	No classes tomorrow and on Saturday due to Undas.
2	2	2019-10-25	Need manpower for tomorrow's Ideathon!
3	1	2019-12-25	Merry Christmas!

Notification Request

notif_req_ID	datetime	message	purpose	status	group_I D	user_ID
РК	DATETIME	VARCHAR(250)	VARCHAR(250)	VARCHAR(1 0)	INT	INT
99999	YYYY-MM-DD HH:MI:SS	X(250)	X(250)	X(10)	99999	99999
PK, SA	NN, NC	NN, NC	NN, NC	NN	FK, NN	FK, NN
1	2019-10-25 12:00:00	There are 5 available slots for the Ideathon! Sign up now!	To inform and invite people to join the Ideathon tomorrow.	APPROVED	1	1
2	2019-10-28 20:00:00	Please answer meeting poll! Thank you!	To bump members into answering the poll.	PENDING	2	1
3	2019-10-31 00:00:00	Happy Halloween! Spoopy!	To greet everyone for Halloween.	REJECTED	1	3

Entry

entry_ID	date	name	info	group_ID
INT	DATE	VARCHAR(50)	VARCHAR(250)	INT
99999	YYYY-MM-DD	X(50)	X(250)	99999
PK, SA	NN	NN		FK, NN
1	2019-10-26	GeeCS Ideathon	P5,000.00 Grand Prize! Lec Hall from 8:30AM-4:00PM.	1
2	2019-11-01	CSI Team Building	null	1
3	2019-11-01	CS 191 Workshop # 11 Deadline	null	3

Entry Request

entry_req_ID	date	name	info	group_ID	user_ID
PK	DATE	VARCHAR(50)	VARCHAR(250	INT	INT
99999	YYYY-MM-DD	X(50)	X(250)	99999	99999
PK, SA	NN	NN		FK, NN	FK, NN
1	2019-10-25	CS 191 Workshop # 10 Deadline	Data Design Workshop - due 7PM	3	1
2	2019-10-26	Anica's Birthday	Happy Birthday Anica!	1	3
3	2019-10-30	DCSS Meeting # 3	Tables outside Lec Hall	2	1