

Scholarship Management System

Data Design Document

Submitted to:

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Revision Control

History Revision:

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Modification</i>
10/29/15	Villarin, Cyan C.	1.0	Initial Document
12/11/15	Villarin, Cyan C.	1.2	Added more database

Data Design: (Normalized Database Table)

1) Applicant Database

userid	upmail	last-name	firstname	middle-name	national-ity	gender	birthdate
9999	X(99)	X(99)	X(99)	X(99)	X(99)	X(99)	MM/DD/YY
PK							
000001	brent@up.edu.ph	wood	clint	lock	filipino	male	03/42/96

birth-place	presentaddress	permaaddress	contactnum-bers	depart-ment	college
X(99)	X(99)	X(99)	9999	X(99)	X(99)
quezon	14 Maligaya	same	0920392023	Com-puters science	engi-neer-ing

2) Administrator Database

userid	upmail	last-name	firstname	middle-name
9999	X(99)	X(99)	X(99)	X(99)
PK				
000001	brent@up.edu.ph	wood	clint	lock

3) Signatory Database

userid	upmail	last-name	firstname	middle-name	position
9999	X(99)	X(99)	X(99)	X(99)	X(99)
PK					
000001	brent@up.edu.ph	wood	clint	lock	College Dean

4) User Database

userid	type
9999	X(99)
PK	
000001	admin

5) ApplicationForm Database

applicationid	scholarshipname	userid(s)	scholarshipfield(s)
9999	X(99)	9999	[X(99)]
PK			
000001	MOVEUP	0000002	Name, Age,...

6) Scholarship

scholarshipid	userid
9999	99999
PK	
000001	000001

Data Access Object (DAO) Classes:

Class Name	Description
ApplicantDAO	This is an interface that will provide access to our database. It will serve as the layer between the Application Logic and the Database. It abstracts the underlying data access implementation for the BusinessObject (data client) to enable transparent access to the data source.

Data Transfer Object (DTO) Classes:

Class Name	Description
ApplicantDTO	This will be the class that will define how the data will be sent from our database to the application or vice versa. It represents a data carrier. It will be used to return data to the client or the client can use it to update data.