

UPLog

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:

Ang, Aira Jazel
Bueno, Patricia Bianca
Valdez, Arian Allenson]

In partial fulfillment of Academic Requirements
for the course
CS 191 Software Engineering I
of the
1st Semester, AY 2014-2015

Unique Reference:

The documents are stored in the <https://github.com/Secretmapper/OrgUP> under *03-Design Engineering Section*

Document Purpose:

To map out the data design of the application

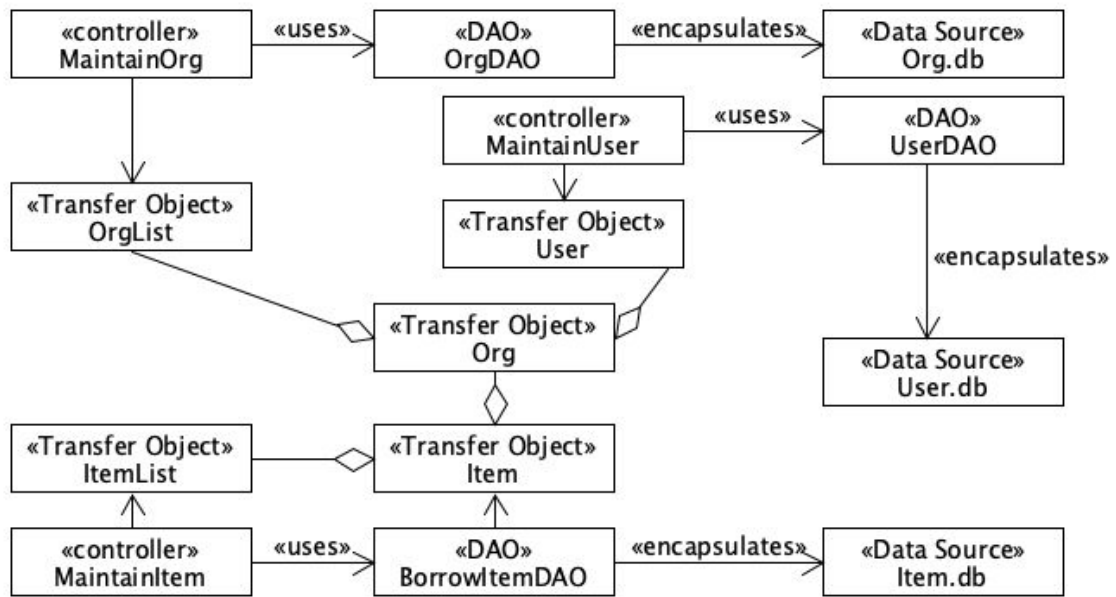
Target Audience:

Organizations within UP.

Revision Control*History Revision:*

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Contribution/Modification</i>
10/18/2019	Bianca Bueno	1.0	Initial Document; Edited basic info (e.g Reference, Purpose, Target Audience)
10/23/2019	Arian Allenson Valdez	1.5	Added Data Design Diagram
10/21/2019	Bianca Bueno	2.0	Added/Edited Classes information
10/21/2019	Aira Jazel Ang	2.5	Added Data Access Object and Database information

Data Design:



Data Access Object (DAO) or DBClasses:

Class Name	Description
OrgDAO	This data access object is responsible for getting org data from database, Org.db. (See the following section for file format and sample).
UserDAO	This data access object is responsible for getting the user information, User.db. (See the following section for file format and sample).
BorrowItemDAO	This data access object is responsible for getting items which would be borrowed from database, Item.db. (See the following section for file format and sample).
MaintainUser	This is the control that maintains user records.
MaintainOrg	This is the control that maintains org records.
MaintainItem	This is the control that maintains item records.

TransferObject or Persistent Classes:

Class Name	Description
Org	This transfer object or persistent class is responsible for holding a single organization record
OrgList	This transfer object or persistent class list is responsible for holding a list of organization records.
Item	This transfer object or persistent class list is responsible for holding a single item record.
ItemList	This transfer object or persistent class list is responsible for holding a list of item records.
User	This transfer object or persistent class list is responsible for holding a list of users.

Database Name: Org Inventory Database

Description: This is the database that contains the inventory of items of an organization. The following are the list of table:

Tables	Descriptions
User	It contains records of all users.
Org	It contains the organizations' records.
Item	It contains the items and descriptions in each organization.
Borrow	It contains the requested item and the borrower.

Logical Database Design:

Org

ID	Name	Description	Active
UNSIGNED INT	VARCHAR(250)	TEXT	BOOLEAN
PK, UA	NN		NN
1	The Clutch Org	Most awesome org in UP seriously it's like so awesome	True

Item

ID	Name	Description	Description	Org	Active
UNSIGNED INT	VARCHAR(250)	TEXT	TEXT	UNSIGNED INT	Active
PK, UA	NN			FK	NN
1	Projector	It's awesome projector		1	True

User

ID	Username	Email	Password
UNSIGNED INT	VARCHAR(80)	VARCHAR(80)	TEXT
PK, UA	NN	NN	NN
1	MyAwesomeUsername	me@awesome.com	24a29c54a2f312ea6d3dd98598c 3552a893a5d5adcab461977a989 6af46e6ca5