

# Iskolivery: Crowdsourced Courier Service

## Data Design Document

Submitted to:

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for the course  
CS 191 Software Engineering  
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***Unique Reference:***

The documents are stored in the <https://github.com/marcteves/cs191-project/wiki/Project-Deliverables> referenced with Iskolivery - Data Design.pdf under the section of 03 - Design Engineering.

***Document Purpose:***

This document is provided to create a model of the data in a more implementation specific representation.

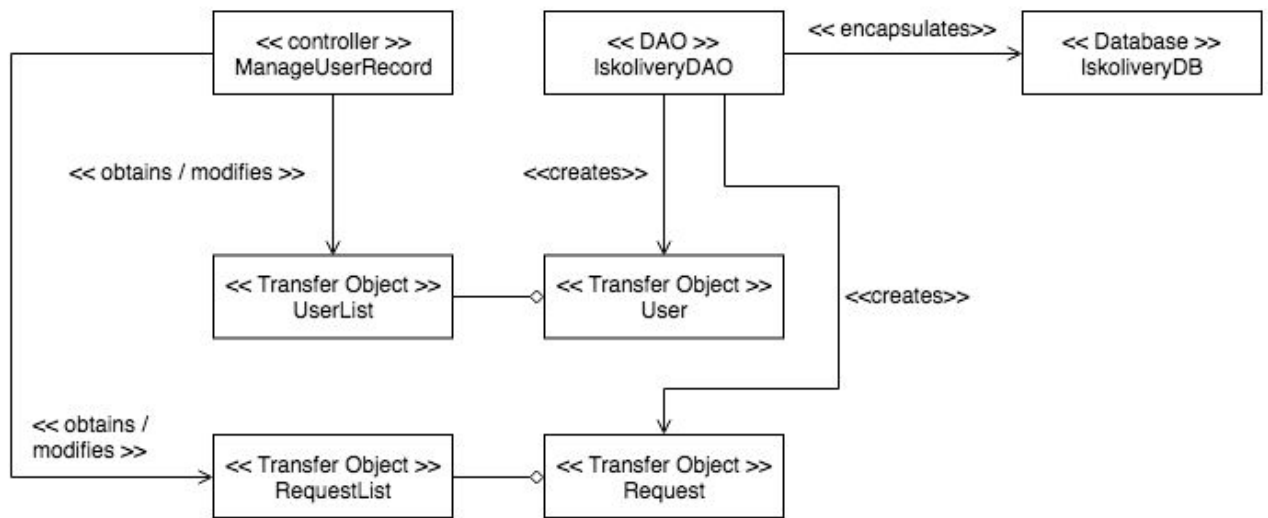
***Target Audience:***

Students and faculty of University of the Philippines Diliman.

***Revision Control******History Revision:***

<b><i>Revision Date</i></b>	<b><i>Person Responsible</i></b>	<b><i>Version Number</i></b>	<b><i>Contribution/Modification</i></b>
10/22/18	Bridget Noelle Legaspi	1.0	Prepared the initial document, data design diagram, and fixed table formats.
10/23/18	Marc Teves	1.1	Added database design documents
10/23/18	Aleksei Fernandez	1.2	Added DAO and transfer objects table

*Data Design:*



*Data Access Object (DAO) or DBClasses:*

<b>Class Name</b>	<b>Description</b>
IskoliveryDAO	This data access object is responsible for getting user/request data from a file called IskoliveryDB.
DBUser	This data access object is responsible for getting user data from a database.
DBRequest	This data access object is responsible for getting request data from a database.

*TransferObject or Persistent Classes:*

Class Name	Description
User	This transfer object or persistent class is responsible for holding a single user record
UserList	This transfer object or persistent class list is responsible for holding a list of user records.
Request	This transfer object or persistent class is responsible for holding a single request record
RequestList	This transfer object or persistent class list is responsible for holding a list of request records.

**Database Name:** IskoliveryDB

**Description:** This database contains the data used by the Iskolivery system.

Tables	Descriptions
User	Contains all of the user information records.
Request	Contains all of the request records.
Task	Contains all task information.
Report	Contains all report information.
Posted by	Contains all records of who posted a request
Fulfilled by	Contains all records of who fulfilled a task
Task in	Contains all records of which task belongs to which request
Rating	Contains all records showing the rating of a user for each request
Filed report	Contains all records regarding who posted what report on which request against who.

## Logical Database Design:

USER								
usernameID	username	upmail	rating	image_url	loc_shortname	latitude	longitude	enabled
INT	STRING	STRING	FLOAT	STRING	STRING	FLOAT	FLOAT	BOOLEAN
PK, NN	NN, ND1	NN	NN		NN	NN	NN	NN
100	alice	aliceisko@up.edu.ph	4.5	null	12, Magsaysay Street	14.12	15	TRUE
200	bob	bobisko@up.edu.ph	4.5	null	12, Magsaysay Street	14.12	15	TRUE
300	carl	carlisko@up.edu.ph	4.5	null	13, Magsaysay Street	14.13	15	FALSE

REQUEST							
request_ID	deadline	request_description	bounty	status	loc_shortname	latitude	longitude
INT	INT (unix time)	STRING	FLOAT	INT	STRING	FLOAT	FLOAT
PK, NN	NN	NN	NN	NN	NN	NN	NN
100	114514800	fetch stuff	15	2	12, Magsaysay Street	14.12	15
200	114514880	write paper	200	2	13, Magsaysay Street	14.13	15

TASK					
taskID	task_description	status	loc_shortname	latitude	longitude
INT	STRING	INT	STRING	FLOAT	FLOAT
PK, NN	NN	NN	NN	NN	NN
100	Get laundry	1	14, Academic Oval	14.18	15.2
200	Get kikiam	2	14, Academic Oval	14.18	15.2

REPORT	
reportID	report_description
INT	STRING
PK, NN	NN
100	Kinagatan ang kikam ko

TASK IN	
taskID	requestID
INT	INT
PK, NN, FK, ND1	PK, NN, FK, ND1

POSTED BY	
requestID	requesterID
INT	INT
PK, NN, FK, ND1	PK, NN, FK, ND1

RATING			
requestID	taskID	requester_rating	fulfiller_rating
INT	INT	FLOAT	FLOAT
PK, NN, FK, ND1	PK, NN, FK, ND1	NN	NN

FULFILLED BY	
taskID	fulfillerID
INT	INT
PK, NN, FK, ND1	PK, NN, FK, ND1

FILED REPORT			
reportID	requestID	reporterID	reportedID
INT	INT	INT	INT
PK, NN, FK	NN, FK	NN, FK	NN, FK