

ReSource

Data Design Document

Submitted to:

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In partial fulfillment of Academic Requirements
for the course
CS 191 Software Engineering I
of the
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Unique Reference:

The documents are stored in the <https://github.com/mathena828/ReSource>.

ReSource - Data Design.pdf

Document Purpose:

The purpose of this document is to lay down the groundwork for the database design. It specifies the data elements that will constitute each of the classes. The organization of information on the web application will follow this general structure.

Target Audience:

The target audience of this document is the CS 191 and CS 192 Software Engineering classes of the academic year 2019 to 2020, as well as other individuals who may need to evaluate the functional requirements of this project. The members of Group No. 2, namely, Jaira Mathena B. Angeles, Danilo M. Mendoza II, and Beatrice Pauline R. Mercado will be creating and referencing this model. Professor Ma. Rowena C. Solamo will be evaluating the contents of this submission to ensure that it fulfills the criteria for this academic requirement.

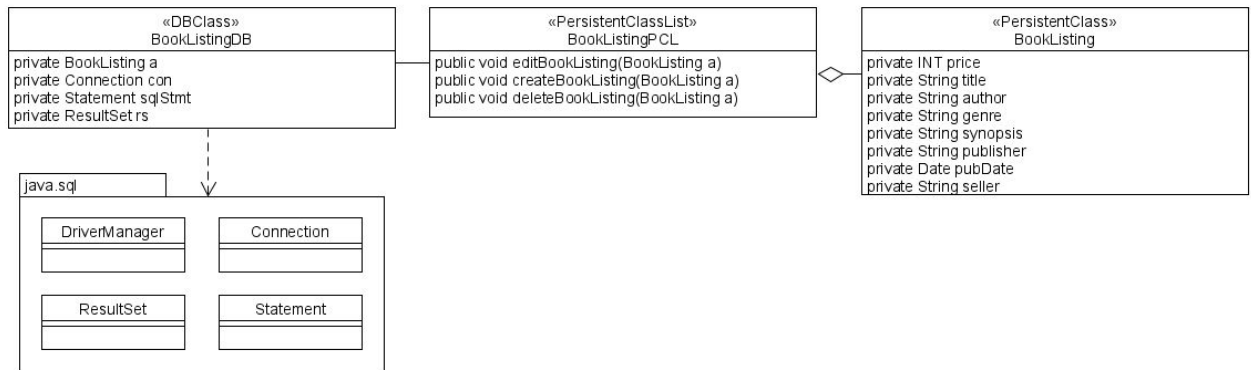
Revision Control

History Revision:

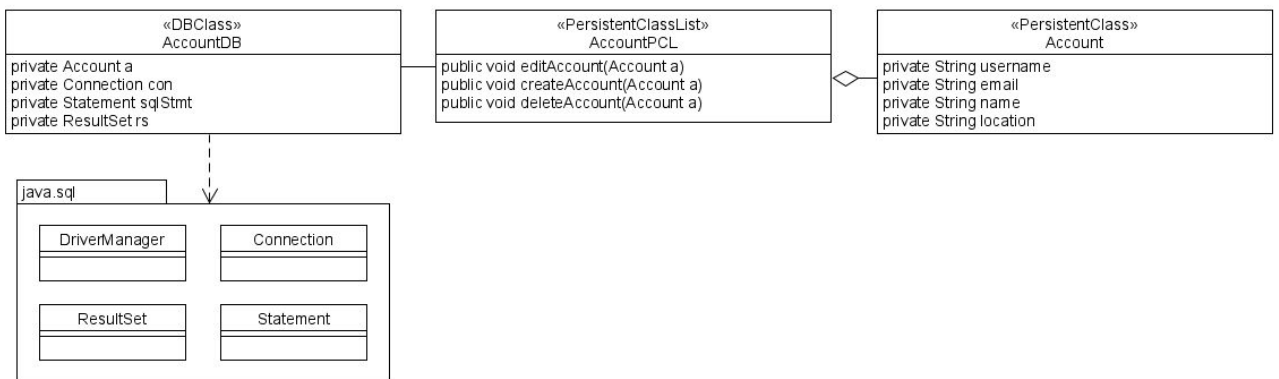
<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Contribution/Modification</i>
10/11/2019	Jaira Mathena Angeles	1.0	She filled out the preface, List of Data Source, and the Logical Database Design section.
10/24/2019	Danilo M. Mendoza II	2.0	Created the Data Design models and filled in the Data Access Object(DAO) or DBClasses table
10/24/2019	Beatrice Pauline R. Mercado	3.0	Filled in the table for Transfer Object or Persistent Classes.

Data Design:

BookListing



Account



Data Access Object (DAO) or DBClasses:

Class Name	Description
BookListingDB	This database is responsible for storing and retrieving book listing records
AccountDB	This database is responsible for storing and retrieving account records

TransferObject or Persistent Classes:

Class Name	Description
BookListingPCL	This persistent class is responsible for maintaining the record for the book listing through create, edit, and delete functions.
BookListing	This persistent class is responsible for holding a single book listing record.
AccountPCL	This persistent class is responsible for maintaining the record for the accounts through create, edit, and delete functions.
Account	This persistent class is responsible for holding a single account record.

List of Data Source:

Database Name: Book Inventory Database

Description: This is the database that contains the inventory of books being sold by sellers on the ReSource web application. The following is the list of tables:

Tables	Descriptions
Book	It contains the records of all the books posted by sellers on the platform.
Account	It contains the account records.

Logical Database Design:

BOOK

ID	Title	Author	Price	Genre	Publisher	Publication_Date	Synopsis	Seller
SMALLINT	VARCHAR (255)	VARCHAR (255)	DECIMAL (8,2)	VARCHAR (255)	VARCHAR (255)	DATE	VARCHAR (5000)	VARCHAR (255)
9999	X(255)	X(255)	999999.99	X(255)	X(255)	MM-DD-YYYY	X(5000)	X(255)
PK, SA	NN	NN	NN				NN	FK, NN
1	The Hobbit	J.R.R. Tolkien	250.00	Fantasy	Allen & Unwin	09-21-1937	In a hole in the ground there lived a hobbit...	legolas
2	The Lorax	Dr. Seuss	150.50	Children's Literature	Random House	06-23-1971	Long before saving the earth...	once_ler
3	1984	George Orwell	580.00	Dystopian Fiction	Harvill Secker	06-08-1949	Winston Smith works for the Ministry...	BigBrother

ACCOUNT

Username	Email	Name	Location
VARCHAR (255)	VARCHAR (255)	VARCHAR (255)	VARCHAR (255)
X (255)	X (255)	X (255)	X (255)
PK, UA	NN	NN	NN
legolas	one_ring@yahoo.com	Orlando Bloom	Woodland Realm, Ithilien
once_ler	thneedle@gmail.com	Danny DeVito	Thneedville
BigBrother	the2minutehate@gmail.com	Winston Smith	Aistrip One, Oceania