

Digital Pink Card

Data Design Document

Submitted to:

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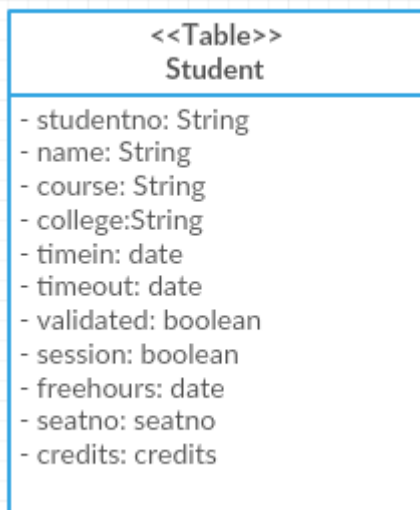
In partial fulfillment of academic requirements
for the course
CS 191 Software Engineering I
of the
1st Semester, AY 2017-2018>

Revision Control

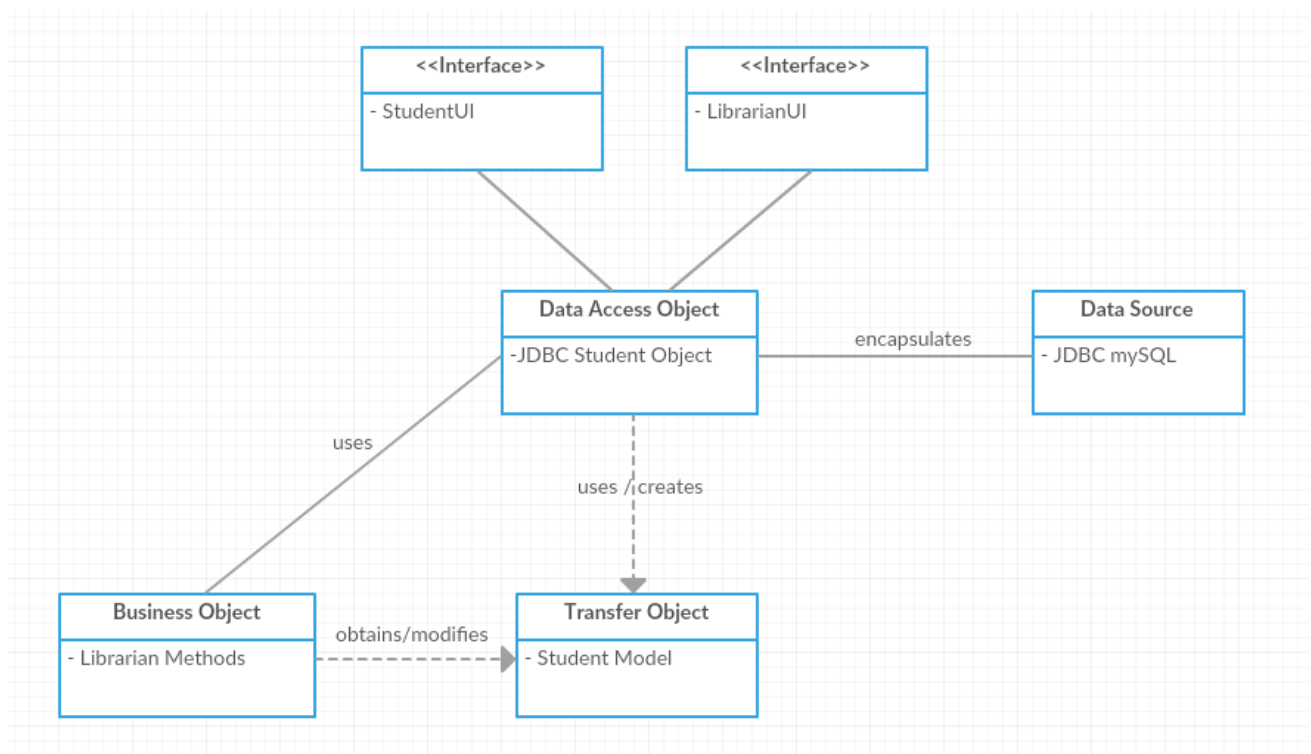
History Revision:

| <i>Revision Date</i> | <i>Person Responsible</i> | <i>Version Number</i> | <i>Modification</i> |
|-----------------------------|----------------------------------|------------------------------|---|
| 11/20/17 | Jann Willem Cai | 1.0 | Initial Document |
| 11/22/17 | Carlos Adrian Daroya | 2.0 | Initial document (v2) (1.0 document was scrapped and rewritten) |
| 11/22/17 | Pauline Ocampo | 2.1 | Fixed footnotes and history of revisions, minor typo in table example |

Database Design:



Data Design:



Data Access Object (DAO) Classes:

| Class Name | Description |
|-------------|---|
| JDBCStudent | The mediator class that abstracts the data source the business object and transfer object |

TransferObject Classes:

| Class Name | Description |
|--------------|--|
| StudentModel | It represents the tables from the database; Used by both the Business Object and DAO |

List of Data Source:

Data Source Name: TLCstudent

Description: It contains all the records for students of UPD. It is written in mySQL.

Sample Source File:

N/A

Sample Tables from the Database:

| studentno | name | course | college | timein | timeout | validated | session | freehours | seatno | credits |
|------------------|----------------------------|---------------|----------------|---------------|----------------|------------------|----------------|------------------|---------------|----------------|
| <i>string</i> | <i>string</i> | <i>string</i> | <i>string</i> | <i>date</i> | <i>date</i> | <i>boolean</i> | <i>boolean</i> | <i>date</i> | <i>int</i> | <i>float</i> |
| <i>PK</i> | | | | | | | | | | |
| 2015-00000 | Carlos Adrian Daroya | BS CS | Engineering | NULL | NULL | True | False | 20 | 0 | 0 |
| 2015-00001 | Pauline Ocampo | BS CS | Engineering | 12:00 | 1:00 | True | False | 19 | 4 | 0 |
| 2015-00002 | Jann Willem Cai | BS CS | Engineering | 14:00 | NULL | True | True | 20 | 8 | 0 |