

# **CoUPon: Check Out UP Orgs Now!**

## **Data Design Document**

Submitted to:

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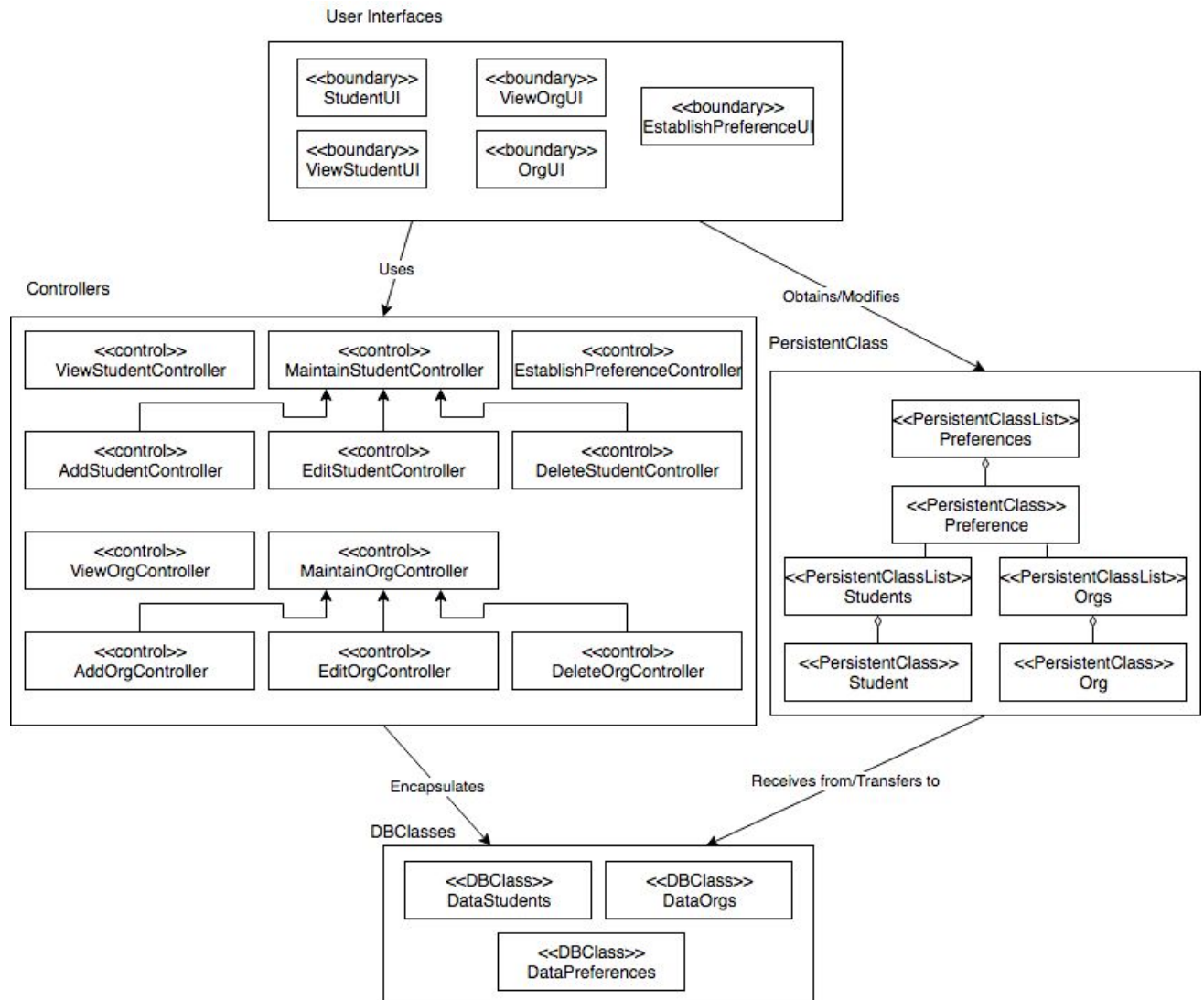
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## ***Revision Control***

### ***History Revision:***

<b><i>Revision Date</i></b>	<b><i>Person Responsible</i></b>	<b><i>Version Number</i></b>	<b><i>Modification</i></b>
11/20/17	Carl Araya	1.0	Initial Document
11/22/17	Carl Araya	1.1	Finalize everything

## Data Design:



### *Data Access Object (DAO) Classes:*

<b>Class Name</b>	<b>Description</b>
MaintainStudentController	The main controller for maintaining the student entity. The class is extended by add, edit, and delete subclasses.
AddStudentController	Controller for adding a new entry to the student database. Calls the procedure addStudent() to create a new student entity.
EditStudentController	Controller for modifying an entry in the student database. Calls the procedure editStudent() to search for a specific entry and modify it.
DeleteStudentController	Controller for deleting an entry in the student database. Calls the procedure deleteStudent() to search for the specific entry and delete it.
ViewStudentController	Controller for viewing a student entry in the database. This is called when a specific org wants to view details of students who signed up to their org. getStudent() is called to search the entries and display through the ViewStudentUI boundary class.
EstablishPreferenceController	Controller for establishing relationship between student and org entities. A new preference entity is created when a student wants to join a specific org based from what is chosen in EstablishPreferenceUI boundary class.
MaintainOrgController	The main controller for maintaining the organization entity. The class is extended by add, edit, and delete subclasses.
AddOrgController	Controller for adding a new entry to the organization database. Calls the procedure addOrg() to create a new org entity.
EditOrgController	Controller for modifying an entry in the organization database. Calls the procedure editOrg() to search for a specific entry and modify it.
DeleteOrgController	Controller for deleting an entry in the organization database. Calls the procedure deleteOrg() to search for the specific entry and delete it.
ViewOrgController	Controller for viewing an organization entry in the student database. This is called when a student wants to view details about a certain organization. getOrg() is called to search the entries and display through the ViewOrgUI boundary class.

*TransferObject Classes:*

Class Name	Description
DataStudents	Contains the details of that student which are the full name, year and course, birthday, student number and contact details. The entity is also associated with a student ID. Can either be added, edited or deleted.
DataOrgs	Contains the information of that organization which are the name, official logo, description, and contact details. It also has a corresponding org ID. Can either be added, edited or deleted.
DataPreferences	Establishes the relationship between the student and organization. It can only be accessed through the student. Can be added or deleted only.

*List of Data Source:*

Data Source Name: coupondb

Description: Postgresql database

## Sample Tables from the Database:

### Student

ID	LastName	FirstName	MI	Year	Course	Birthday	SNo	Email	Contact
SMALLINT	VARCHAR(100)	VARCHAR(100)	VARCHAR(10)	SMALLINT	VARCHAR(100)	DATE	VARCHAR(10)	VARCHAR(100)	VARCHAR(100)
PK	NN	NN		NN	NN	NN	NN	NN	
1	Araya	Carl	A	3	BSCS	1/1/2000	202012345	carl@gmail.com	
2	Comia	Camille		3	BSCS	2/2/2000	202067890	camille@gmail.com	
3	Florita	Nikki		3	BSCS	3/3/2000	202099999	nikki@gmail.com	09171234567

### Org

ID	Name	Logo	Description	Contact
SMALLINT	VARCHAR(100)	MEDIUMBLOB	TEXT	VARCHAR(100)
PK	NN	NN	NN	NN
1	UP CSI	(binary file)	Lorem	09061234567
2	UP CURSOR	(binary file)	Ipsum	09061111111

### Preference

StudentID	OrgID
SMALLINT	SMALLINT
PK	PK
1	1
1	2
2	2
3	1
3	2