

CoUPon: Check Out UP Orgs Now!

Analysis Model

Submitted to:

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Revision Control

History Revision:

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Modification</i>
10/19/17	Nikki Florita	1.0	Created initial document;
10/27/17	Camille Comia	1.01	Added the diagram to document and started filling up fields for class descriptions.
10/27/17	Nikki Florita	1.02	Filling out description for control classes

Purpose:

To define the information, functions and the behaviour of the system.

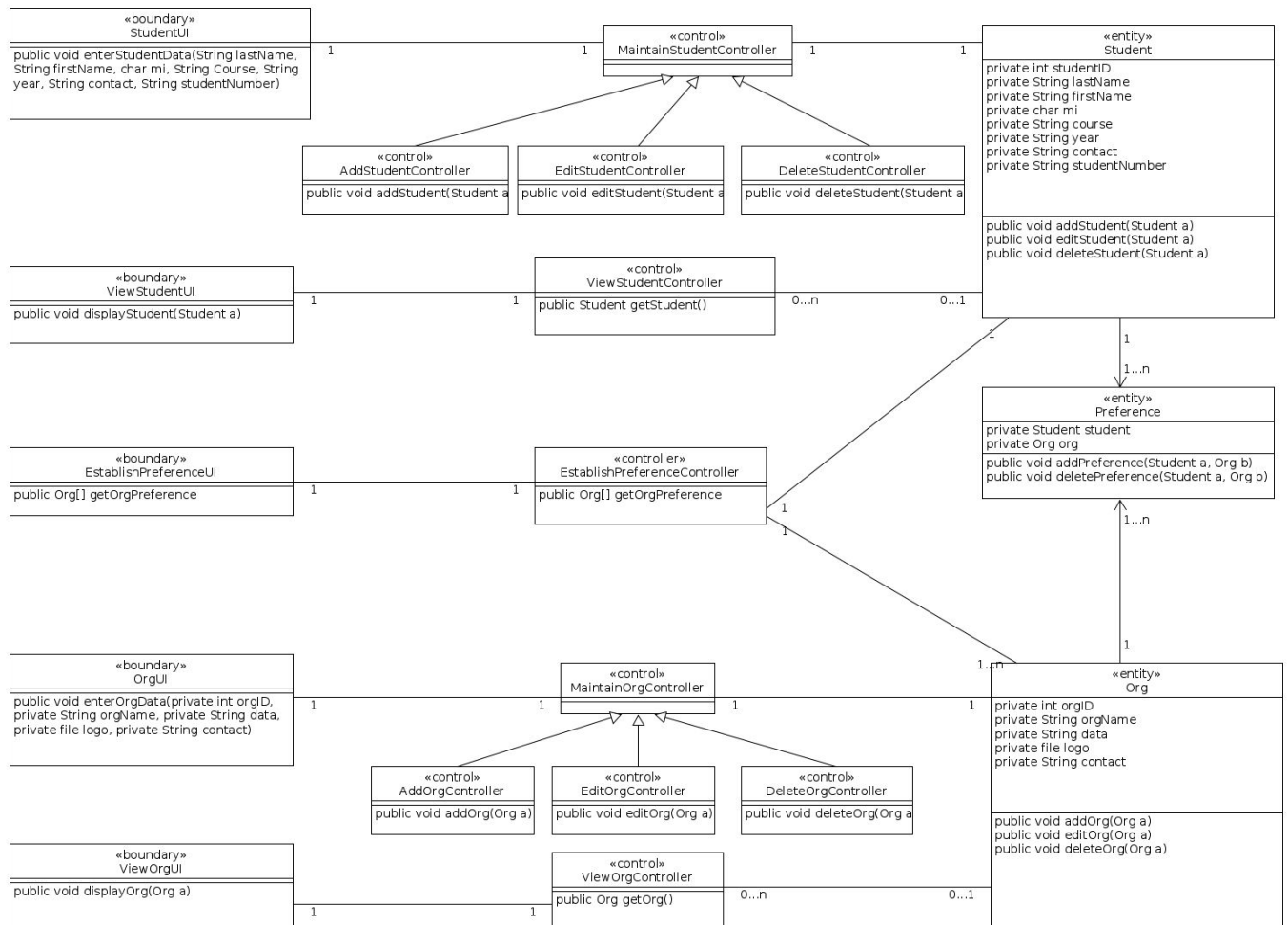
Audience:

This document is for Prof. Rowena Solamo and for the developers of the system.

System Name: CoUPon Information Exchange System

Description: The system provides fast exchange of information between the student and the organization. It delivers the necessary details about the organization to the student and also enables the student to submit his/her own information to the multiple organizations subscribed to the app.

Class Diagram:



Boundary Classes:

Class Name	Description
StudentUI	This interface allows the student to enter the required information to submit their application to their preferred organizations.
OrgUI	This interface allows the corresponding organization to submit the details that will be required to post on their profile.
EstablishPreferenceUI	This allows the student to submit an application to any organization of their choice. A student may submit to one or more organization in one go.
ViewStudentUI	This interface will display the selected student along with his/her submitted details. It will be available to the preferred organization and moderators only.
ViewOrgUI	This interface will display the profile of the selected organization. The profile will contain the organization's logo, a description submitted by the org and approved by the moderators, and contact details.

Control Classes:

Class Name	Description
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.

Entity Classes:

Class Name	Description
Student	This entity represents the student. It 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. This entity can either be added, edited or deleted.
Org	This entity represents the organization. It contains the information of that organization which are the name, official logo, description, and contact details. It also has a corresponding org ID. This entity can either be added, edited or deleted.
Preference	This entity represents the preference of a specific student. It establishes the relationship between the student and organization. It can only be accessed through the student. This entity can be added or deleted only.