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# UPCC

## Use Case Diagram

Submitted to:

Prof. Ma. Rowena C. Solamo  
Faculty Member  
Department of Computer Science  
College of Engineering  
University of the Philippines, Diliman

Submitted by:  
Abaja, James Gabriel  
Cruz, Rayven Ely  
Lim, Ciana

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### **Unique Reference:**

The documents are stored in <https://github.com/limciana/UPCC>.

Use Case Model: <http://bit.ly/UPCCUseCaseModel>

### **Document Purpose:**

This document's purpose is to give a high-level perspective of all possible functionalities of the UPCC system.

### **Target Audience:**

The target audience of this document are the developers who are interested in continuing and extending the project, users who are interested in how the system works, and the professor handling the course.

### **Revision Control**

#### *History Revision:*

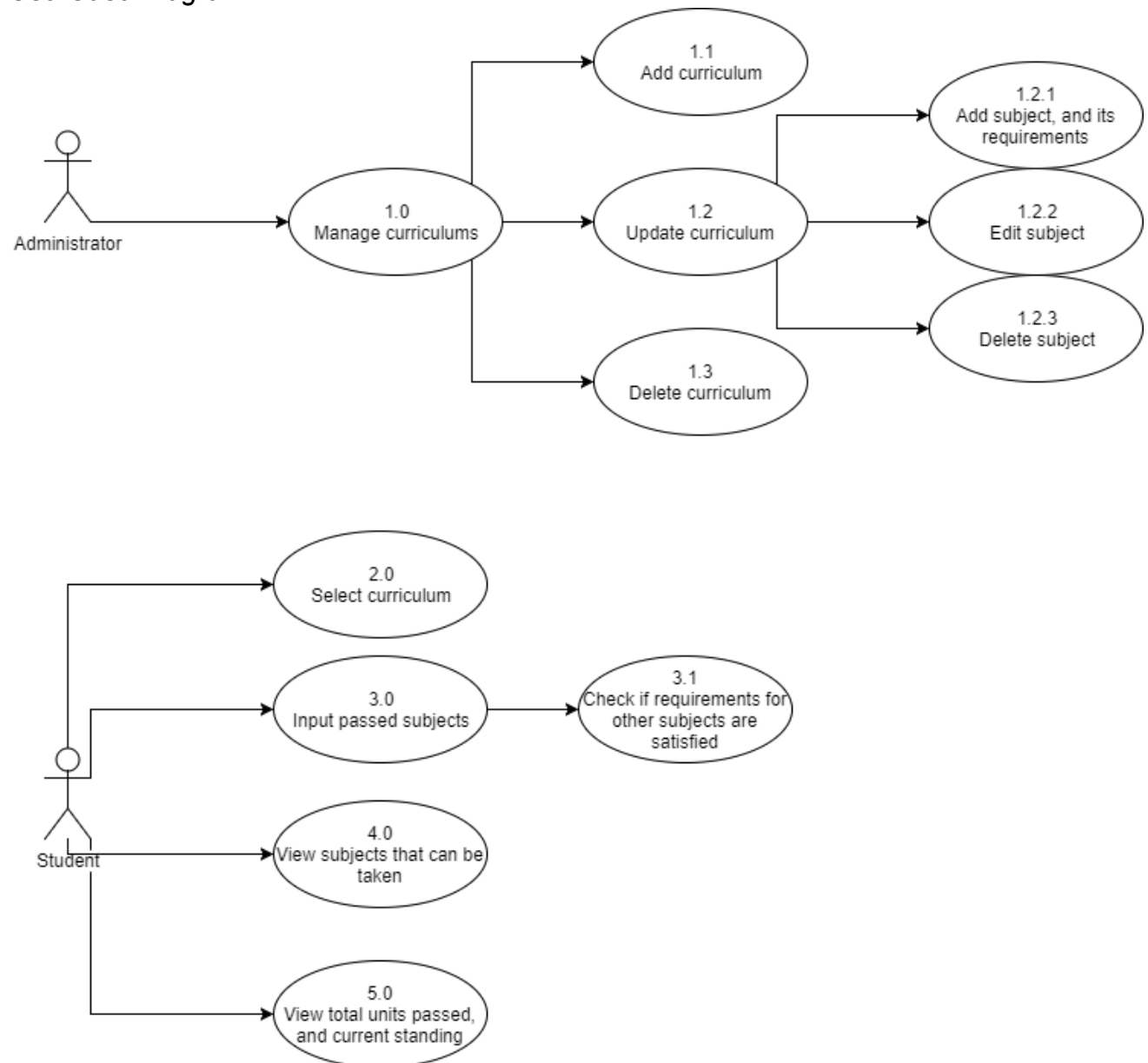
| <b>Revision<br/>Date</b> | <b>Person<br/>Responsible</b> | <b>Version<br/>Number</b> | <b>Modification</b>  |
|--------------------------|-------------------------------|---------------------------|--|
| 09/20/17                 | James Abaja                   | 1.0                       | Initial Document; Included List of Actors, Use-case Descriptions 1.2-1.2.3, and the Unique Reference.  |
| 09/20/17                 | Ciana Lim                     | 2.0                       | Included Document Purpose, Target Audience, System Description, Use-case Diagram, and Use-case Descriptions 1.0-1.1, 1.3-2.0. Modified the grammar and the keywords for consistency. |
| 09/21/17                 | Rayven Cruz                   | 3.0                       | Included Use-case Descriptions 3.0-5.0.  |
| 09/22/17                 | James Abaja                   | 4.0                       | Modified Use-case Diagram, and its numbering.  |
| 10/20/17                 | Ciana Lim                     | 5.0                       | Modified the name of use-case 1.2.1 and use-case 3.1.  |

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**System Name:** UPCC

**Description:** The UPCC system allows UP Diliman students under the BS Computer Science (BS CS) program to select the curriculum they're currently following. They can also input the subjects they've already passed, and view the subjects they can take afterwards. The system also allows administrators to manage the curriculums by adding, editing, and deleting curriculums, and subjects.

**Use-Case Diagram:**



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*List of Actors:*

| <b>Actors</b> | <b>Description</b>   |
|---------------|--|
| Administrator | This actor represents the developers and the Department of Computer Science (DCS) personnel responsible for managing BS CS curriculums. It can add, edit and delete curriculums. Alongside that, it can add, edit, and delete courses in the curriculum being managed. This actor also specifies the rules and prerequisites associated with the course being added in the curriculum. |
| Student       | This actor represents the users who are students of the UP Diliman BS CS program. This actor can select the curriculum that he/she is following, input subjects passed, and view the subjects that he/she can take, along with the total number of units he/she has passed, and his/her current standing. This actor cannot modify the curriculums provided by the administrator.      |

*List of Use-cases:*

| <b>Use-Case</b>                                   | <b>Description</b>  |
|---|---|
| Use-Case 1.0 Manage curriculums                   | This use-case is responsible for adding different versions of the BS Computer Science program. It is also responsible for updating and deleting existing curriculums in the system. All functionalities under this use-case are only for administrators.  |
| Use-Case 1.1 Add curriculum                       | This use-case adds a new version of the BS Computer Science program to the system, which the system recognizes as curriculums. This use-case is authorized for the use of administrators only. These added curriculums can later be chosen by the Student actor.  |
| Use-Case 1.2 Update curriculum                    | This use-case is responsible for updating a specific curriculum. Under this use-case, one can add, edit and delete subjects in the curriculum specified. One can also update the name of the curriculum. All functionalities under this use-case are only for administrators.   |
| Use-Case 1.2.1 Add subject, and its requirements. | This use-case adds a subject in the curriculum specified. When the course is added, certain requirements are added alongside it. These requirements can be its prerequisites, corequisites and other rules like the Junior and Senior standing. This use-case is authorized for the use of administrators only.   |
| Use-Case 1.2.2 Edit subject                       | This use-case is responsible for editing the properties of the subject in the curriculum specified. These properties can be its name, its prerequisites, corequisites, and other rules. This can only be done for subjects that are already existing in the curriculum specified. Also, this use-case is authorized for the use of administrators only. |
| Use-Case 1.2.3 Delete subject                     | This use-case deletes a subject in the curriculum specified. This use-case is authorized for the use of administrators only. This use-case is also restricted to subjects already existing inside the curriculum specified.   |

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|---|--|
| Use-Case 1.3 Delete curriculum                                      | This use-case deletes a curriculum from the system. This can only be done if the curriculum exists in the system. This use-case is authorized for the use of administrators only.  |
| Use-Case 2.0 Select curriculum                                      | This use-case is the starting point for the Student actor to access the entire functionalities of the system, excluding functionalities that are only for administrators. This is where the Student selects the curriculum he/she is following. The Student can only select among the list of available curriculums.   |
| Use-Case 3.0 Input passed subjects                                  | This use-case is where the Student actor inputs his/her passed subjects, which the system uses to determine which other subjects can be taken by the Student. The Student cannot input a subject that he/she cannot take yet based on the rules specified by the curriculum he/she selected. The Student can only input subjects that are accepted by the selected curriculum. |
| Use-Case 3.1 Check if requirements for other subjects are satisfied | This use-case is responsible for checking if the Student actor satisfies the prerequisites, corequisites, and rules of the subjects in the curriculum. These are needed in order to determine if the Student can take certain subjects. These conditions are specified by the curriculum selected, and they are checked using the subjects passed by the Student.              |
| Use-Case 4.0 View subjects that can be taken                        | This use-case tells the Student actor which subjects he/she can take. These subjects are determined by the selected curriculum of the Student. They are also determined by the subjects passed by the Student, and the satisfaction of prerequisites, corequisites, and rules of certain subjects.   |
| Use-Case 5.0 View total units passed and current standing           | This use-case tells the Student actor his/her total number of units passed, and his/her current standing. His/her current standing is determined based on the UP Diliman Office of the University Registrar definitions. The current standing is computed by the number of units passed, or specified by the selected curriculum.  |