Attendance Checker

Use Case Diagram

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Unique Reference:

This document is stored in the project's requirements engineering folder in GitHub, found here.

Document Purpose:

This document contains the use-case diagram of Attendance Checker, as well as an elaboration for the actors and use-cases found in the diagram.

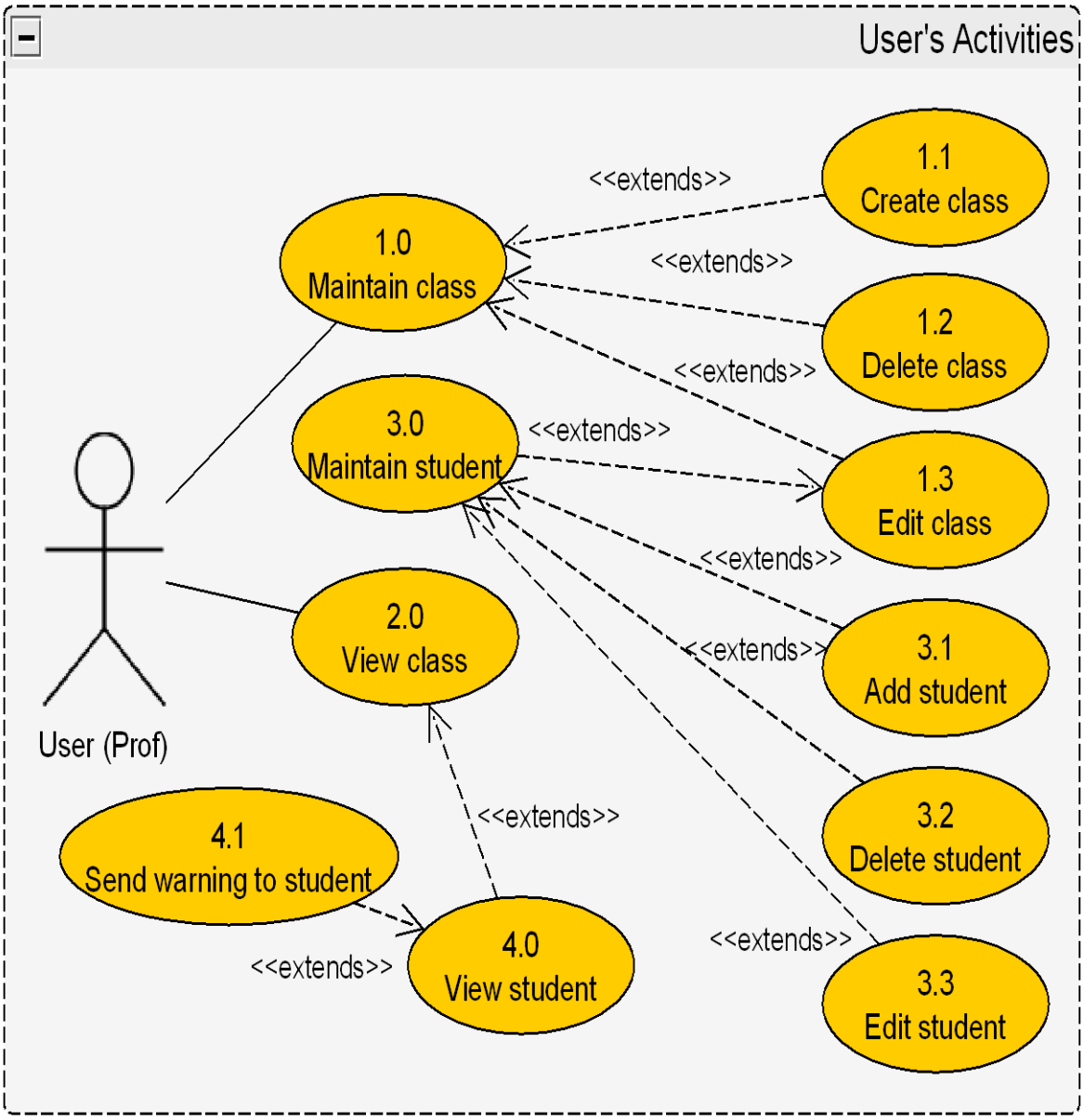
Target Audience:

This document was made for the instructor and for the team members developing the system.

Revision Control

History Revision:

Revision Date	***Person Responsible***	***Version Number***	***Modification***
09/27/2016	Jeremy Micah Choa	1.0	Initial Document



The Use Case Diagram

System Name: Attendance Checker (Attendance Record System)

Description: Using the Attendance Checker, a user (an instructor or professor) may maintain a class, view a class, maintain a student, and view a student. Maintaining a class entails creating, deleting, and editing a class. Maintaining a student parallels maintaining a class (adding, deleting, and editing), though it is done when editing a class. Additionally, viewing a student, which can be done when viewing a class, also provides an option for the user to send a warning to that student regarding his attendance in the user's class.

List of Actors:

Actors	***Description***
User	The user of the system (labelled Prof for easier verbal reference). The Prof can maintain a class, view a class, maintain a student, and view a student. Maintenance of either a class or a student includes adding (or creating in the case of classes), deleting, and editing. However, maintaining a class is a part of editing a class. Likewise, viewing a student is a part of viewing a class. When viewing a student, the Prof can send them a warning regarding their class attendance.

List of Use-cases:

Use-Case	***Description***
1.0 Maintain class	The Prof can maintain their classes by creating, deleting, and editing classes. These classes are independent from each other, so deleting and editing one will not affect another.
1.1 Create class	The Prof can create a class by providing its name and number of sessions. This class is then added to the Prof's total classes. Classes must have unique names.
1.2 Delete class	The Prof can delete certain classes from their total classes. This removes the class from the sum list of the Prof's classes. This action affects only one class.
1.3 Edit class	The Prof can edit a class by changing its name, number of sessions, and the students in that class. A new class is not created from this action. The edited name cannot be a duplicate of an already existing class.
2.0 View class	The Prof can view the details associated with a class. These include its name, the number of class sessions, a list of students included in the class, and the attendance status per session of these students.
3.0 Maintain student	When editing a class, the Prof can perform actions concerning the students in that class. These include adding, deleting, and editing students. These students are unique within a class but not among classes, so duplicates cannot be created in one class, but can be created in others, unaffected by edits performed in individual classes.
3.1 Add student	When editing a class, the Prof can add students to the class by providing their name, unique ID, and contact detail. The created student is then added to the class's list of students. Students within a class must have unique IDs and contact details.
3.2 Delete student	When editing a class, the Prof can delete a student from a class. This removes the student from that particular class. This

Use-Case	*Description*
	action only affects one student within a particular class.
3.3 Edit student	When editing a class, the Prof can edit a student in the class by changing their name, unique ID, and contact detail. A new student is not created from this action. The edited unique ID or contact detail cannot match any existing unique ID or contact detail found in that particular class.
4.0 View student	When viewing a class, the Prof can view the details associated with a student in that particular class. These include their name, unique ID, contact detail, and the number of absences in that class. When viewing the student, the Prof has the option of sending them a warning regarding these absences.
4.1 Send warning to student	When viewing a student in a class, the Prof can send a warning to the student regarding their attendance in the class the student belongs to. The system will send a message to the contact detail associated with the student.