Professor: Mark Buchner Date: Dec 18 2017

Group: #9 - F4

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# LAB9: USE CASE SPECIFICATION

#### Use Case Name: ScheduleClasses

## BRIEF DESCRIPTION:

This use case enables the ClassOrganizer to create a new class into a specific date and time, which include assigning instructor and requesting supplies and tools for the class.

## SECTION 1: Schedule Classes

### Pre-Conditions:

* All Classes are already saved in the system include the information of required supplies and tools.
* All available Instructors are already saved in the system.
* All Classroom are already saved in the system.
* The ClassOrganizer is logged into the system with a valid id and password.
* The system displays the main menu.

### Scenario Dialogue:

|  |  |  |  |
| --- | --- | --- | --- |
| # | Actor (ClassOrganizer) | System | Data Used |
| 1 | Request 'Schedule Class' menu. | Retrieve available classes.  Retrieve available instructors.  Retrieve available classroom.  Display available class list with the timetable. | class  timetable |
| 2 | Select an empty timeslot in the timetable. | Provide a blank new class form. | date  time |
| 3 | Fill in the form with a class choose in available classes. | Retrieve the class information include required supplies and tools information. | class name  supplies  tools |
| 4 | Fill in the form with a instructor choose in available instructors. | Retrieve the instructor information. | instructor |
| 5 | Fill in the form with a classroom choose in available classrooms. | Retrieve the classroom information. | classroom |
| 6 | Request to save the form | Validate the timeslot availability.  If it is unavailable, display error.  Call SendOrderSupplies.  Call SendRentTools.  Validate the instructor availability.  If it is unavailable change class status to 'pending' and call a Call SendHireInstructors.  Save the schedule for the class.  Display a summary of class and confirm add another class. | date  time  class name  classroom  supplies status  tools staus  instructor |
| 7 | loop #2 ~ #6 | loop #2 ~ #6 |  |
| 8 | Request to complete schedule. | Display to main menu. |  |

### Post-Conditions:

* The status of Supplies in the schedule will be updated when StockSupplies finished.
* The status of Tools in the schedule will be updated when StockTools finished.
* The status of Instructor in the schedule will be updated when Instructor is hired.

## SECTION 2: Data Used Organization

|  |  |  |  |
| --- | --- | --- | --- |
| class | instructor | classroom | Timetable |
| name  supplies  tools | name | name | date  ime  className  instructor  classroom  supplyStatus  toolStatus |