Classroom Booking System —— System Check

Name:
System Check

Description:
This use case contains the system filtering through the input criteria and returns

Actors:
None

Triggers:
Enter from record Room or Change Room

Preconditions:
The filter criteria are obtained from the use case calling it

Postconditions:
When the System Check is complete, the filter results are returned to the use case that invoked it

Courses of events:
Basic course of events:
1. Execute the System Check use case
2. System input filter criteria (one or more classes, one course name, one teacher name, and one type)
3. The system detection type is NULL
4. The system screens for duplicate items from the master table for both teacher and course names
5. The system creates a weekly table and removes from the table that the teacher has no free time
6. The system removes from the table that each class has no free time, and the result is an intersection
7. The system removes the time slot from the table when there is no room available
8. Returns the remaining time slots

Alternate course of events:
1. Execute the System Check use case
2. System input filter criteria (one or more classes, one course name, one teacher name, and one type)
3. The system detection type is NULL
4. The system screens for duplicate items from the master table for both teacher and course names

5. Find projects with duplicate teacher names and course names
6. Returns a request of the input type

Alternate course of events:
1. Execute the System Check use case
2. System input filter criteria (one or more classes, one course name, one teacher name, and one type)
3. The system detection type is "separation"
4. The system creates a weekly table and removes from the table that the teacher has no free time
5. The system removes from the table that each class has no free time, and the result is an intersection
6. The system removes the time slot from the table when there is no room available
7. Returns the remaining time slots

Alternate course of events:
1. Execute the System Check use case
2. System input filter criteria (one or more classes, one course name, one teacher name, and one type)
3. The system detection type is "merge"
4. The system screens for duplicate items from the master table for both teacher and course names
5. Find projects with duplicate teacher names and course names
6. Returns the time frame of the project

Exceptional course of events:
1. Execute the System Check use case
2. System input filter criteria (one or more classes, one course name, one teacher name, and one type)
3. The system detected an illegal condition
4. Returns a request to reenter a condition

Extension Points:
None

Inclusions:
Record Room
Change Room