

Classroom.cpp Documentation

- **Method Name:**
 - AddStudent()
 - **Return:**
 - Bool
 - **Pre-Condition:**
 - There are > 0 students, UID of new student != UID of current students.
 - **Post-Condition:**
 - Returns true if new student was added; return false if student already present.
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- **Method Name:**
 - RemoveStudent()
 - **Return:**
 - Bool
 - **Pre-Condition:**
 - There are > 0 students in gradebook, UID of student to be removed == UID of existing student.
 - **Post-Condition:**
 - A value of true is returned if the student identified by their UID is removed; otherwise return false.
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- **Method Name:**
 - AddProject()
 - **Return:**
 - None
 - **Pre-Condition:**
 - Current projects > 0
 - **Post-Condition:**
 - New project is added to student's project list
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- **Method Name:**
 - AddExams()
 - **Return:**
 - None
 - **Pre-Condition:**
 - Exams in list > 0, added exam grade > 0.
 - **Post-Condition:**
 - Exam grade is added to student's exam grade list

- **Method Name:**
 - SetFinalExams()
- **Return:**
 - None
- **Pre-Condition:**
 - There are > 0 exam grades in list, final exam > 0.
- **Post-Condition:**
 - Sets final exam grade of student.

List_impl.hpp Documentation

- **Method Name:**
 - List()
- **Return:**
 - None
- **Pre-Condition:**
 - None
- **Post-Condition:**
 - Nodes are initialized correctly.

- **Method Name:**
 - ~List()
- **Return:**
 - None
- **Pre-Condition:**
 - None
- **Post-Condition:**
 - Data from list is deallocated.

- **Method Name:**
 - AppendItem()
- **Return:**
 - None
- **Pre-Condition:**
 - Counter != Max_Count
- **Post-Condition:**
 - Item added to list, counter is incremented

- **Method Name:**
 - DeleteItem ()
- **Return:**
 - bool
- **Pre-Condition:**
 - Item to be deleted == item in list
 - Counter > 0
- **Post-Condition:**
 - Value of true returned if item removed
 - Counter decremented
 - Value of false if not removed
 - Counter unchanged

- **Method Name:**
 - Count ()
- **Return:**
 - int
- **Pre-Condition:**
 - None
- **Post-Condition:**
 - Number of elements in list is returned

- **Method Name:**
 - Front ()
- **Return:**
 - Reference pointer
- **Pre-Condition:**
 - Number of items in list > 0
- **Post-Condition:**
 - Memory location of first item returned.

- **Method Name:**
 - Front ()
- **Return:**
 - Type
- **Pre-Condition:**
 - Number of items in list > 0
- **Post-Condition:**
 - Returns a copy of the first item in the list

- **Method Name:**
 - Back ()
- **Return:**
 - Memory location
- **Pre-Condition:**
 - Number of items in list > 0
- **Post-Condition:**
 - Memory of last item in list is returned.

- **Method Name:**
 - Back ()
- **Return:**
 - Type
- **Pre-Condition:**
 - Number of items in list > 0
- **Post-Condition:**
 - A copy of last item in list is returned.

- **Method Name:**
 - IterateItems ()
- **Return:**
 - pointer
- **Pre-Condition:**
 - Number of items in list > 0
 - _iterator pointer not at last list item
- **Post-Condition:**
 - Returns value at _iterator pointer
 - _iterator pointer now pointing at next list item

- **Method Name:**
 - AtEnd ()
- **Return:**
 - bool
- **Pre-Condition:**
 - Number of items in list > 0
- **Post-Condition:**
 - Value of true returned if iterator pointer is at list end
 - Value of false returned if not at end of list

- **Method Name:**

- List()

- **Return:**

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- **Pre-Condition:**

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- **Post-Condition:**