Technical design

„Class groups“

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Notes** |
| 0.1 | 25/06/13 | Cameron Smith (ISUTC) | First draft design Class Structure |
| 0.2 | 11.9.2013 | Markus Pscheidt Norbert Harrer | Specification for screens, tables, curriculum transition |
|  |  |  |  |

# Introduction

**Summary:** endow Opus with the structural concept of class (a specific, named, group of students within the total population of students adhering to a certain Study Programme in a certain Academic Year).

**Institution-specific aspects:** none at this time. However this feature should be implemented in such a way that future developments to automate the composition of classes (e.g. <http://www.opus-college.net/Brochures/opus_time-tabling_design/files/design.pdf> ) can build on top of it.

# Requirements specification

* **Class definition:** a user with the appropriate permissions, typically a senior member of the Registry or Academic Management, can define one or more classes via a screen. Each class should have a name which is unique within that academic year.
* **Student allocation to class:** a user with the appropriate permissions, typically a basic member of the Registry, can allocate a student to a given class when editing the student's details. A student can be allocated to multiple classes; for example, a student who has to repeat a failed subject may join a differnet class. only be allocated to one class at any one time.
* **Teacher allocation to class:** One or more teachers can be allocated to a class who can enter results for the students in the assigned class. The teacher cannot enter results of students of the same subject in other classes.
* **Subject allocation to class:** A number of subjects can be associated with the class. Possibly, but not necessarily, all subjects of a time unit (e.g. all subjects of first year) can be assigned to a class.
* **Curriculum transition:** The class definition and the allocated subjects shall be transferred from one academic year to another, in order to simplify the class setup in subsequent years.
* **Reporting by Class:** the reports accessible at Reports → Students → Student reports per study program / time unit should be filterable by class, in addition to the existing filters.

# Technical specification

## Tables

|  |  |
| --- | --- |
| New table classgroup | Fields: description, studyGradeTypeId |
|  |  |
| New table studentClassgroup | Set of students that belong to the class |
|  | Fields: classgroupId, studyPlanCardinalTimeUnitId |
|  |  |
| New table subjectClassgroup | Set of subjects that belongs to the class |
|  | Fields: subjectId, classgroupId |
|  |  |
| Table subjectTeacher | New field classgroupId |
| Table examinationTeacher | New field classgroupId |
| Table testTeacher | New field classgroupId |

## Screens

|  |  |  |
| --- | --- | --- |
|  |  | Priority  (1 = high) |
| Classgroup screen: | Main register: Classgroups erzeugen/editieren | 1 |
|  | Register Students: Assign students to the class | 2 |
|  | Register Subjects: Assign subjects to the class | 2 |
|  | Button to distribute students to classes automatically (randomly) | 2 |
|  |  |  |
| Students | New register classgroup: Assign students to class | 1 |
|  |  |  |
| Staffmember | Register Subject/Course: New column classgroup | 1 |
|  | Register Examinations: New column classgroup | 1 |
|  | Register Tests: New column classgroup | 1 |
|  |  |  |
| Subject | Neues Register Classgroups: Assign subject to a class | 1 |
|  | Register Teacher: new column classgroup (also in Add subject teacher) | 1 |
|  | Examination/Examination supervisors: new column classgroup (also in Add examination teacher) | 1 |
|  | Test/Test supervisors: new column classgroup (also in Add test supervisor) | 1 |
|  |  |  |
| Subjectresults | For teachers: Limit to students from assigned class | 1 |
| Examinationresults | For teachers: Limit to students from assigned class | 1 |
| Testresults | For teachers: Limit to students from assigned class | 1 |
|  |  |  |
| Subjectresult | For teachers: only allow to edit result if in assigned class (or in assigned course if no class defined) | 1 |
| Examinationresult | For teachers: only allow to edit result if in assigned class (or in assigned course if no class defined) | 1 |
| Testresult | For teachers: only allow to edit result if in assigned class (or in assigned course if no class defined) | 1 |

## Opus framework

|  |  |  |
| --- | --- | --- |
| Transfer curriculum | Include class definitions in the curriculum transition: tables classGroup and subjectClassgroup | 2 |

## Reports

|  |  |  |
| --- | --- | --- |
| Add class filter | To all relevant report selection screens add a filter to limit to a specific class | 2 |