

GradeBook REST API

| HTTP Methods | CRUD | URI | Action | REST Service |
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| Authentication | | | | |
| GET | Read | /api/v1/users/check | Returns user ID, email and role if users credentials are OK | UsersFacadeREST |
| Administrator Access Level | | | | |
| POST | Create | /api/v1/groups | Creates a new group | AcademicGroupFacadeREST |
| PUT | Update | /api/v1/groups/{group_id} | Updates group | AcademicGroupFacadeREST |
| DELETE | Delete | /api/v1/groups/{group_id} | Deletes group | AcademicGroupFacadeREST |
| GET | Read | /api/v1/groups/{group_id} | Returns a group by ID | AcademicGroupFacadeREST |
| GET | Read | /api/v1/groups | Returns list of all groups | AcademicGroupFacadeREST |
| POST | Create | /api/v1/administrators | Creates a new administrator | AdminFacadeREST |
| PUT | Update | /api/v1/administrators/{administrator_id} | Updates administrator | AdminFacadeREST |
| DELETE | Delete | /api/v1/administrators/{administrator_id} | Deletes administrator | AdminFacadeREST |
| GET | Read | /api/v1/administrators/{administrator_id} | Returns an administrator by ID | AdminFacadeREST |
| GET | Read | /api/v1/administrators | Returns list of all administrators | AdminFacadeREST |
| POST | Create | /api/v1/departments | Creates a new department | DepartmentFacadeREST |
| PUT | Update | /api/v1/departments/{department_id} | Updates department | DepartmentFacadeREST |
| DELETE | Delete | /api/v1/departments/{department_id} | Deletes department | DepartmentFacadeREST |
| GET | Read | /api/v1/departments/{department_id} | Returns a department by ID | DepartmentFacadeREST |
| GET | Read | /api/v1/departments | Returns list of all departments | DepartmentFacadeREST |

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| POST | Create | /api/v1/faculties | Creates a new faculty | FacultyFacadeREST |
| PUT | Update | /api/v1/faculties/{faculty_id} | Updates faculty | FacultyFacadeREST |
| DELETE | Delete | /api/v1/faculties/{faculty_id} | Deletes faculty | FacultyFacadeREST |
| GET | Read | /api/v1/faculties/{faculty_id} | Returns a faculty by ID | FacultyFacadeREST |
| GET | Read | /api/v1/gradebooks | Returns list of all faculties | FacultyFacadeREST |
| POST | Create | /api/v1/gradebooks | Creates a new gradebook | GradebookFacadeREST |
| PUT | Update | /api/v1/gradebooks/{gradebook_id} | Updates gradebook | GradebookFacadeREST |
| DELETE | Delete | /api/v1/gradebooks/{gradebook_id} | Deletes gradebook | GradebookFacadeREST |
| GET | Read | /api/v1/gradebooks/{gradebook_id} | Returns a gradebook by ID | GradebookFacadeREST |
| GET | Read | /api/v1/gradebooks | Returns list of all gradebooks | GradebookFacadeREST |
| POST | Create | /api/v1/lecturers | Creates a new lecturer | LecturerFacadeREST |
| PUT | Update | /api/v1/lecturers/{lecturer_id} | Updates lecturer | LecturerFacadeREST |
| DELETE | Delete | /api/v1/lecturers/{lecturer_id} | Deletes lecturer | LecturerFacadeREST |
| GET | Read | /api/v1/lecturers/{lecturer_id} | Returns a lecturer by ID | LecturerFacadeREST |
| GET | Read | /api/v1/lecturers | Returns list of all lecturers | LecturerFacadeREST |
| POST | Create | /api/v1/semesters | Creates a new semester | SemesterFacadeREST |
| PUT | Update | /api/v1/semesters/{semester_id} | Updates semester | SemesterFacadeREST |
| DELETE | Delete | /api/v1/semesters/{semester_id} | Deletes semester | SemesterFacadeREST |
| GET | Read | /api/v1/semesters/{semester_id} | Returns a semester by ID | SemesterFacadeREST |
| GET | Read | /api/v1 semesters | Returns list of all semesters | SemesterFacadeREST |
| POST | Create | /api/v1/students | Creates a new student | StudentFacadeREST |
| PUT | Update | /api/v1/students/{student_id} | Updates student | StudentFacadeREST |
| DELETE | Delete | /api/v1/students/{student_id} | Deletes student | StudentFacadeREST |
| GET | Read | /api/v1/students/{student_id} | Returns a student by ID | StudentFacadeREST |

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| GET | Read | /api/v1/students | Returns list of all students | StudentFacadeREST |
| POST | Create | /api/v1/tasks | Creates a new task. Initializes student grades and attendances. | TaskFacadeREST |
| PUT | Update | /api/v1/tasks/{task_id} | Updates task | TaskFacadeREST |
| DELETE | Delete | /api/v1/tasks/{task_id} | Deletes task | TaskFacadeREST |
| GET | Read | /api/v1/tasks/{task_id} | Returns a task by ID | TaskFacadeREST |
| GET | Read | /api/v1/tasks | Returns list of all tasks | TaskFacadeREST |
| GET | Read | /api/v1/users | Returns list of all users | UsersFacadeREST |
| Lecturer Access Level | | | | |
| GET | Read | /api/v1/gradebooks | Returns a list of groups and associated with them gradebooks, which are accessible by current user. Recognises user via @HeaderParam | GradebookFacadeREST |
| POST | Create | /api/v1/gradebooks | Creates a new gradebook | GradebookFacadeREST |
| GET | Read | /api/v1/gradebooks/{gradebook_id} | Returns gradebook details | GradebookFacadeREST |
| GET | Read | /api/v1/semesters | Returns list of semesters in current year and next one | SemesterFacadeREST |
| GET | Read | /api/v1/groups | Returns list of groups of faculty based on faculty of lecturer. Recognises lecturer via @HeaderParam | AcademicGroupFacadeREST |
| GET | Read | /api/v1/lecturers | Returns list of lecturer's colleagues based on their department. Recognises lecturer via @HeaderParam | LecturerFacadeREST |
| GET | Read | /api/v1/lecturers/{lecturer_id} | Returns a lecturer by ID | LecturerFacadeREST |

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| GET | Read | /api/v1/groups/{academic_group_id}/semesters/{semester_id}/gradebooks/{gradebook_id}/tasks | Returns the tasks table with grades | TasksTableFacadeREST |
| GET | Read | /api/v1/groups/{academic_group_id}/semesters/{semester_id}/gradebooks/{gradebook_id}/attendance | Returns the attendance table | AttendanceTableFacadeREST |
| POST | Create | /api/v1/tasks | Adds a new tasks | TaskFacadeREST |
| GET | Read | /api/v1/tasks/{task_id} | Returns task details | TaskFacadeREST |
| PUT | Update | /api/v1/tasks/{task_id} | Updates the task | TaskFacadeREST |
| PUT | Update | /api/v1/students/{student_id}/tasks/{task_id}/grade | Adds/Updates grade | StudentGradeFacadeREST |
| PUT | Update | /api/v1/attendances/{attendance_id} | Adds/Updates attendance | StudentAttendanceFacadeREST |
| Student Access Level | | | | |
| GET | Read | /api/v1/groups/{academic_group_id}/semesters/{semester_id}/gradebooks/{gradebook_id}/tasks | Returns the tasks table with student's grades | TasksTableFacadeREST |
| GET | Read | /api/v1/groups/{academic_group_id}/semesters/{semester_id}/gradebooks/{gradebook_id}/attendance | Returns the student's attendance table | AttendanceTableFacadeREST |
| GET | Read | /api/v1/gradebooks | Returns a list of student's gradebooks | GradebookFacadeREST |
| GET | Read | /api/v1/tasks/{task_id} | Returns task details | TaskFacadeREST |