DatabaseItem +id: string +add_to_database(): bool +remove_from_database(): bool +update_in_database(new_props: Map): bool -connection_key: string -Consecuent_Rey_sumg
+initialize_db(key_string): void
-Database()
+remove_item(item: Databaseltem): bool
+add_item(item: Databaseltem): bool
+get_instance(): Database&
+get(string, Map) +saved_in_db(): bool Course #username: string #password_hash: string #email: string #faculty: string #name: string -credit_hours: int -professor: string -teaching_assistants: string[0..6] -textBook: string «enumeration» Role +get_credit_hours(): int +set_credit_hours(): void +get_professor(): Instructor +get_teaching_assistants(): Instructor +get_students(): Student(*) +get_textbook(): string(*) ADMINISTRATOR #role: Role INSTRUCTOR STUDENT HJSer(Jusename: string, email: string, password: string)
+get_username(): string
+get_email(): string
+set_email(): void
+set_username(): string
+check_password(plassword: string): bool
+authericizelic): bool +get_assignments(): string(*) Student -courses_registartions: string[0..6] courses; registations: string(0.6)
*Student(userame: string, email: string, password: string)
*getCourse(); Course();
*tegister_course_it: string); bool
*view_total_grade(course_it: string); bool
*view_total_grade(course_it: string); double
*get_average_grade_in_all_course(); double
*get_average_grade_in_all_course(); double
*str_cossibe_course(); Course(); AssignmentSubmission -ID: string -student: string -assignment: string Assignment +add_user(user: User): bool
+Administrator(username: string, email: string, password: string)
+Administrator(username: string, email: string, course: string): bool
+remove_user(user: User): bool
+add_course()
+iss_pending_registrations(): course_registration()*) -course: string -submissions: string[*]
-type: AssignmentType -grade: double +getStudent(): student +getAssignment(): Assignment +getGrade(): Grade +setGrade(grade: double): bool +getCourse(): Course +getSubmissions(): AssignmentSubmission[*] +getMinimumGrade(): double +getMaximumGrade(): double +getAverageGrade(): double Instructor -Courses: string[0..5] -Courses: stringlu-sj
-Instructor(username: string, email: string, password: string)
-and(course(course: Course): bool
-and(course(course: Course): bool
-and(course): course): bool
-and(dourse): course; course; bool
-and(dourse): course; course; course; bool
-and(d): grade(student: Student, Assignment: Assignment; bool
-get_maximum_grade(course_id: string)
-get_minimum_grade(course_id: string)
-get_wrange_grade(course_id: string)
-get_wrange_grade(cou CourseRegistration -Course: string -Student: string state: Course «enumeration» CourseRegistrationState Current Finished Dropped The method modify_grade will either add of update a grade if existent add_teaching_assistant will work in case the instructor is the professer of the course chosen and return true, otherwise return false