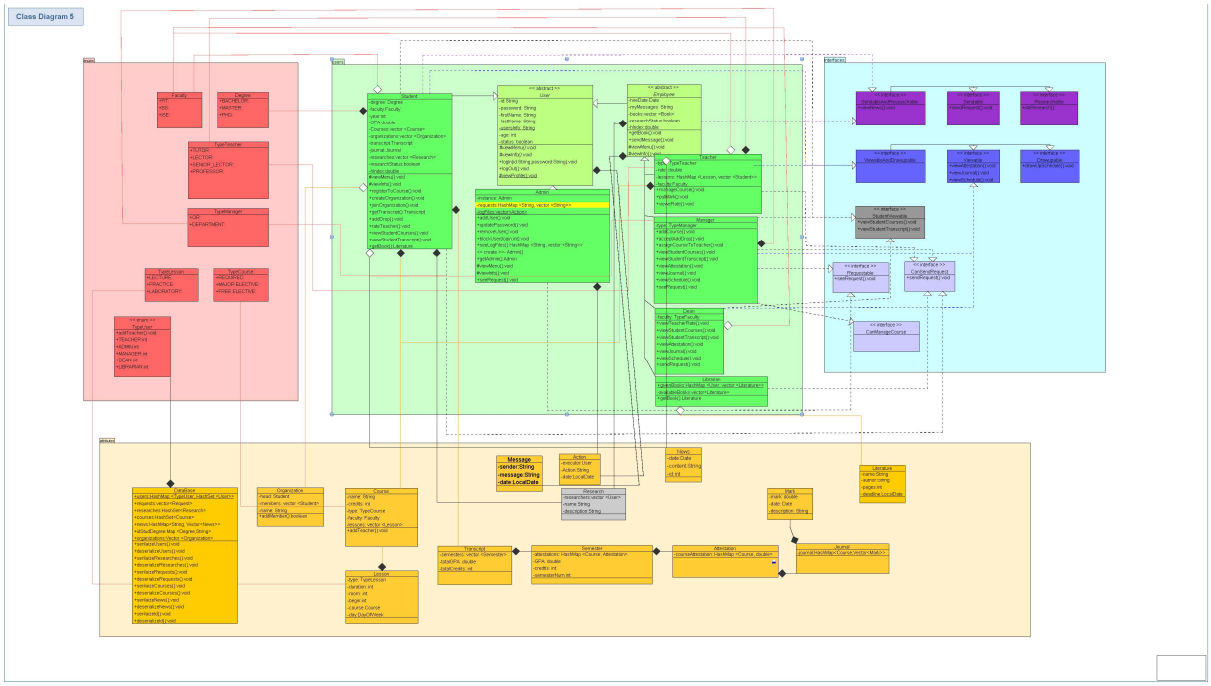
Class Diagram 5
enum
Faculty
+MT
+BS
+CE
Degree
+BSCHELOR
+MASTER
+PHD
TypeTeacher
+TUTOR
+LECTOR
+MENTOR_LECTOR
+PROFESSOR
TypeManager
+VICE
+DEPARTMENT
TypeLession
+ELECTURE
+PRACTICE
+LABORATORY
TypeCourse
+REQUIRED
+MAJOR ELECTIVE
+FREE ELECTIVE
<< enum >>
TypeUser
+AddTeacher()-void
+TEACHER-int
+ADMIN-int
+MANAGER-int
+DEAN-int
+DEPARTMENT-int
users
Student
-degree: Degree
-faculty:Faculty
-year:int
-GPA:double
-Courses:vector <Course>
-organizations:vector <Organization>
-transcript:Transcript
-journal:Journal
-researches:vector <Research>
-researchStatus:boolean
-library:Library
+viewMenu()-void
+viewInfo()-void
+registerToCourse()-void
+createOrganization()-void
+joinOrganization()-void
+getTranscript()-Transcript
+addDiary()-void
+addTeacher()-void
+viewStudentCourses()-void
+searchSchedule()-void
+setRequest()-void
<< abstract >>
User
-id:String
-password: String
-firstName: String
-lastName: String
-username: String
-age:int
-TypeUser: TypeUser
-BuilderUp()-void
-BuilderDy()-void
+login()-String,password:String)-void
+logOut()-void
#viewProfile()-void
<< abstract >>
Employee
-hireDate:Date
-myMessages: String
-tasks:vector <Task>
-answerAfterHolidays:boolean
+getTasks()-void
+getMyMsg()-void
+sendMessage()-void
#viewMenu()-void
#viewInfo()-void
Teacher
-salary:double
-students: HashMap <Lesson, vector <Student>>
-faculty:Faculty
+addNewLesson()-void
+editMark()-void
+viewMarks()-void
Admin
-instance: Admin
-requests:HashMap <String, vector <String>>
-staffDepartments:Boolean
+addNewCourse()-void
+addNewStaff()-void
+removeUsing()-void
+blockUnblockUser()-void
+sendLogMsg()-HashMap <String, vector <String>>
+s create +s- Admin()
+getAdmin()-Admin
#viewMenu()-void
#viewInfo()-void
+setRequest()-void
Manager
-type: TypeManager
+addCourse()-void
+editAddCourse()-void
+editAllCourseToTeacher()-void
+viewStudentCourses()-void
+viewStudentTranscript()-void
+viewAttestation()-void
+viewJournal()-void
+viewSchedule()-void
+setRequest()-void
Dean
-faculty: TypeFaculty
+viewFacultyRate()-void
+viewStudentCourses()-void
+viewStudentTranscript()-void
+viewAttestation()-void
+viewJournal()-void
+viewSchedule()-void
+setRequest()-void
Librarian
-publications:HashMap <User, vector <Literature>>
-addNewLibrary()-void
interfaces
<< interface >>
IntroduceProcessToStudent
+sendNews()-void
<< interface >>
Translate
+sendMessage()-void
<< interface >>
ResearchJobs
+addResearch()
<< interface >>
ViewMarksOfUnsignedto
<< interface >>
ViewJournal
+viewJournal()-void
+editJournal()-void
+addJournalToLecture()-void
<< interface >>
Delegate
+takeLightOfAttend()-void
<< interface >>
StudentNewsMe
+viewStudentCourses()-void
+viewStudentTranscript()-void
<< interface >>
Responsible
+setRequest()-void
<< interface >>
ConfirmRequest
+setsRequest()-void
<< interface >>
ConfirmMessageCourse
services
Message
-sender:String
-message:String
-date:LocalDate
Action
-executor:User
-Action:String
-date:LocalDate
News
-date:Date
-content:String
-id:int
Research
-researchers:vector <User>
-name:String
-description:String
Task
-mark: double
-date: Date
-description: String
Literature
-name:String
-author:String
-pages:int
-deadline:LocalDate
DataBase
-users:HashMap <Character, HashSet <User>>
+requests:vector<Request>
+researches:vector<Research>
+courses:HashSet<Course>
+news:HashMap<String, vector<News>>
+allSubDegree:Map <Degree,String>
+organizations:Vector <Organization>
+setInstance()-void
+deserializeUsers()-void
+setInstanceResearches()-void
+deserializeResearches()-void
+setInstanceRequests()-void
+deserializeRequests()-void
+setInstanceCourses()-void
+deserializeCourses()-void
+setInstanceNews()-void
+deserializeNews()-void
+setInstance()-void
+deserialize()-void
Organization
-head: Student
-members: vector <Student>
-name: String
+addMember()-boolean
Course
-name: String
-credits: int
-type: TypeCourse
-faculty: Faculty
-lessons: vector <Lesson>
+addTeacher()-void
Lesson
-type: TypeLession
-duration: int
-room: int
-begin:int
-course: Course
-day:DayOfWeek
Transcript
-semesters: vector <Semester>
-totalGPA: double
-totalCredits: int
Semester
-attestations: HashMap <Course, Attestation>
-GPA: double
-credits: int
-semesterNum: int
Attestation
-courseMarkstation: HashMap <Course, double>
Journal
-journal:HashMap<Course, vector<Mark>>