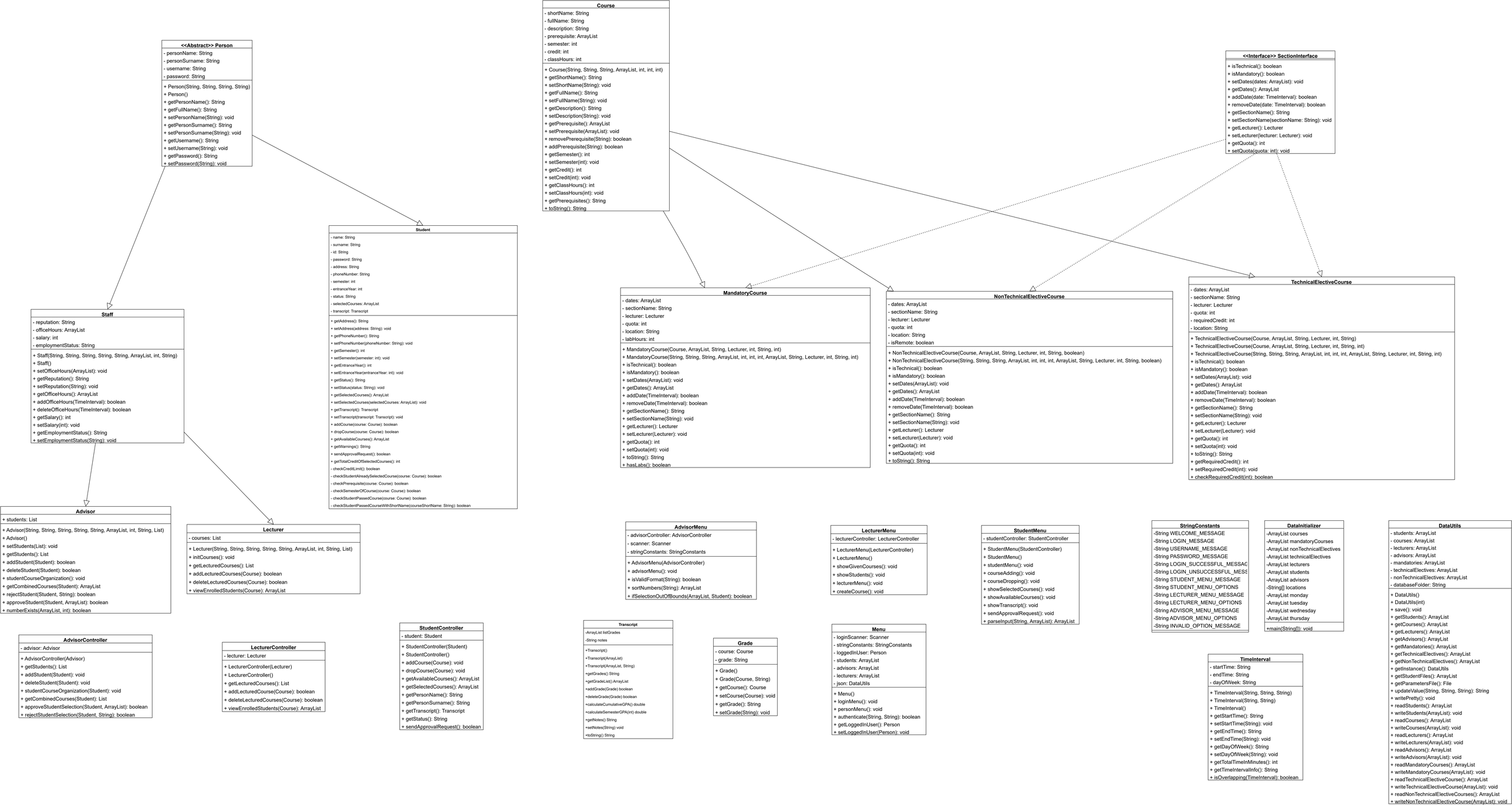
Course
- shortName: String
- fullName: String
- description: String
- prerequisite: ArrayList
- semester: int
- credit: int
- classHours: int
+ Course(String, String, String, ArrayList, int, int, int)
+ getShortName(): String
+ setShortName(String): void
+ getFullName(): String
+ setFullName(String): void
+ getDescription(): String
+ setDescription(String): void
+ getPrerequisite(): ArrayList
+ setPrerequisite(ArrayList): void
+ removePrerequisite(String): boolean
+ addPrerequisite(String): boolean
+ getSemester(): int
+ setSemester(int): void
+ getCredit(): int
+ setCredit(int): void
+ getClassHours(): int
+ setClassHours(int): void
+ getPrerequisites(): String
+ toString(): String
<<Abstract>> Person
- personName: String
- personSurname: String
- username: String
- password: String
+ Person(String, String, String, String)
+ Person()
+ getPersonName(): String
+ getFullName(): String
+ setPersonName(String): void
+ getPersonSurname(): String
+ setPersonSurname(String): void
+ getUsername(): String
+ setUsername(String): void
+ getPassword(): String
+ setPassword(String): void
<<Interface>> SectionInterface
+ isTechnical(): boolean
+ isMandatory(): boolean
+ setDates(dates: ArrayList): void
+ getDates(): ArrayList
+ addDate(date: TimeInterval): boolean
+ removeDate(date: TimeInterval): boolean
+ getSectionName(): String
+ setSectionName(sectionName: String): void
+ getLecturer(): Lecturer
+ setLecturer(lecturer: Lecturer): void
+ getQuota(): int
+ setQuota(quota: int): void
Student
- name: String
- surname: String
- id: String
- password: String
- address: String
- phoneNumber: String
- semester: int
- entranceYear: int
- status: String
- selectedCourses: ArrayList
- transcript: Transcript
+ getAddress(): String
+ setAddress(address: String): void
+ getPhoneNumber(): String
+ setPhoneNumber(phoneNumber: String): void
+ getSemester(): int
+ setSemester(semester: int): void
+ getEntranceYear(): int
+ setEntranceYear(entranceYear: int): void
+ getStatus(): String
+ setStatus(status: String): void
+ getSelectedCourses(): ArrayList
+ setSelectedCourses(selectedCourses: ArrayList): void
+ getTranscript(): Transcript
+ setTranscript(transcript: Transcript): void
+ addCourse(course: Course): boolean
+ dropCourse(course: Course): boolean
+ getAvailableCourses(): ArrayList
+ getWarnings(): String
+ sendApprovalRequest(): boolean
+ getTotalCreditOfSelectedCourses(): int
- checkCreditLimit(): boolean
- checkStudentAlreadySelectedCourse(course: Course): boolean
- checkPrerequisite(course: Course): boolean
- checkSemesterOfCourse(course: Course): boolean
- checkStudentPassedCourse(course: Course): boolean
- checkStudentPassedCourseWithShortName(courseShortName: String): boolean
MandatoryCourse
- dates: ArrayList
- sectionName: String
- lecturer: Lecturer
- quota: int
- location: String
- labHours: int
+ MandatoryCourse(Course, ArrayList, String, Lecturer, int, String, int)
+ MandatoryCourse(String, String, String, ArrayList, int, int, int, ArrayList, String, Lecturer, int, String, int)
+ isTechnical(): boolean
+ isMandatory(): boolean
+ setDates(ArrayList): void
+ getDates(): ArrayList
+ addDate(TimeInterval): boolean
+ removeDate(TimeInterval): boolean
+ getSectionName(): String
+ setSectionName(String): void
+ getLecturer(): Lecturer
+ setLecturer(Lecturer): void
+ getQuota(): int
+ setQuota(int): void
+ toString(): String
+ hasLabs(): boolean
NonTechnicalElectiveCourse
- dates: ArrayList
- sectionName: String
- lecturer: Lecturer
- quota: int
- location: String
- isRemote: boolean
+ NonTechnicalElectiveCourse(Course, ArrayList, String, Lecturer, int, String, boolean)
+ NonTechnicalElectiveCourse(String, String, String, ArrayList, int, int, int, ArrayList, String, Lecturer, int, String, boolean)
+ isTechnical(): boolean
+ isMandatory(): boolean
+ setDates(ArrayList): void
+ getDates(): ArrayList
+ addDate(TimeInterval): boolean
+ removeDate(TimeInterval): boolean
+ getSectionName(): String
+ setSectionName(String): void
+ getLecturer(): Lecturer
+ setLecturer(Lecturer): void
+ getQuota(): int
+ setQuota(int): void
+ toString(): String
TechnicalElectiveCourse
- dates: ArrayList
- sectionName: String
- lecturer: Lecturer
- quota: int
- requiredCredit: int
- location: String
+ TechnicalElectiveCourse(Course, ArrayList, String, Lecturer, int, String)
+ TechnicalElectiveCourse(Course, ArrayList, String, String, Lecturer, int, String, int)
+ TechnicalElectiveCourse(String, String, String, ArrayList, int, int, int, ArrayList, String, Lecturer, int, String, int)
+ isTechnical(): boolean
+ isMandatory(): boolean
+ setDates(ArrayList): void
+ getDates(): ArrayList
+ addDate(TimeInterval): boolean
+ removeDate(TimeInterval): boolean
+ getSectionName(): String
+ setSectionName(String): void
+ getLecturer(): Lecturer
+ setLecturer(Lecturer): void
+ getQuota(): int
+ setQuota(int): void
+ toString(): String
+ getRequiredCredit(): int
+ setRequiredCredit(int): void
+ checkRequiredCredit(int): boolean
Staff
- reputation: String
- officeHours: ArrayList
- salary: int
- employmentStatus: String
+ Staff(String, String, String, String, String, ArrayList, int, String)
+ Staff()
+ setOfficeHours(ArrayList): void
+ getReputation(): String
+ setReputation(String): void
+ getOfficeHours(): ArrayList
+ addOfficeHours(TimeInterval): boolean
+ deleteOfficeHours(TimeInterval): boolean
+ getSalary(): int
+ setSalary(int): void
+ getEmploymentStatus(): String
+ setEmploymentStatus(String): void
Advisor
+ students: List
+ Advisor(String, String, String, String, String, ArrayList, int, String, List)
+ Advisor()
+ setStudents(List): void
+ getStudents(): List
+ addStudent(Student): boolean
+ deleteStudent(Student): boolean
+ studentCourseOrganization(): void
+ getCombinedCourses(Student): ArrayList
+ rejectStudent(Student, String): boolean
+ approveStudent(Student, ArrayList): boolean
+ numberExists(ArrayList, int): boolean
Lecturer
- courses: List
+ Lecturer(String, String, String, String, String, ArrayList, int, String, List)
+ initCourses(): void
+ getLecturedCourses(): List
+ addLecturedCourses(Course): boolean
+ deleteLecturedCourses(Course): boolean
+ viewEnrolledStudents(Course): ArrayList
AdvisorMenu
- advisorController: AdvisorController
- scanner: Scanner
- stringConstants: StringConstants
+ AdvisorMenu(AdvisorController)
+ advisorMenu(): void
+ isValidFormat(String): boolean
+ sortNumbers(String): ArrayList
+ ifSelectionOutOfBounds(ArrayList, Student): boolean
LecturerMenu
- lecturerController: LecturerController
+ LecturerMenu(LecturerController)
+ LecturerMenu()
+ showGivenCourses(): void
+ showStudents(): void
+ lecturerMenu(): void
+ createCourse(): void
StudentMenu
- studentController: StudentController
+ StudentMenu(StudentController)
+ StudentMenu()
+ studentMenu(): void
+ courseAdding(): void
+ courseDropping(): void
+ showSelectedCourses(): void
+ showAvailableCourses(): void
+ showTranscript(): void
+ sendApprovalRequest(): void
+ parseInput(String, ArrayList): ArrayList
StringConstants
-String WELCOME_MESSAGE
-String LOGIN_MESSAGE
-String USERNAME_MESSAGE
-String PASSWORD_MESSAGE
-String LOGIN_SUCCESSFUL_MESSAG
-String LOGIN_UNSUCCESSFUL_MESS
-String STUDENT_MENU_MESSAGE
-String STUDENT_MENU_OPTIONS
-String LECTURER_MENU_MESSAGE
-String LECTURER_MENU_OPTIONS
-String ADVISOR_MENU_MESSAGE
-String ADVISOR_MENU_OPTIONS
-String INVALID_OPTION_MESSAGE
DataInitializer
-ArrayList courses
-ArrayList mandatoryCourses
-ArrayList nonTechnicalElectives
-ArrayList technicalElectives
-ArrayList lecturers
-ArrayList students
-ArrayList advisors
-String[] locations
-ArrayList monday
-ArrayList tuesday
-ArrayList wednesday
-ArrayList thursday
+main(String[]): void
DataUtils
- students: ArrayList
- courses: ArrayList
- lecturers: ArrayList
- advisors: ArrayList
- mandatories: ArrayList
- technicalElectives: ArrayList
- nonTechnicalElectives: ArrayList
- databaseFolder: String
+ DataUtils()
+ DataUtils(int)
+ save(): void
+ getStudents(): ArrayList
+ getCourses(): ArrayList
+ getLecturers(): ArrayList
+ getAdvisors(): ArrayList
+ getMandatories(): ArrayList
+ getTechnicalElectives(): ArrayList
+ getNonTechnicalElectives(): ArrayList
+ getInstance(): DataUtils
+ getStudentFiles(): ArrayList
+ getParametersFile(): File
+ updateValue(String, String, String): String
+ writePretty(): void
+ readStudents(): ArrayList
+ writeStudents(ArrayList): void
+ readCourses(): ArrayList
+ writeCourses(ArrayList): void
+ readLecturers(): ArrayList
+ writeLecturers(ArrayList): void
+ readAdvisors(): ArrayList
+ writeAdvisors(ArrayList): void
+ readMandatoryCourses(): ArrayList
+ writeMandatoryCourses(ArrayList): void
+ readTechnicalElectiveCourse(): ArrayList
+ writeTechnicalElectiveCourse(ArrayList): void
+ readNonTechnicalElectiveCourses(): ArrayList
+ writeNonTechnicalElectiveCourse(ArrayList): void
AdvisorController
- advisor: Advisor
+ AdvisorController(Advisor)
+ getStudents(): List
+ addStudent(Student): void
+ deleteStudent(Student): void
+ studentCourseOrganization(Student): void
+ getCombinedCourses(Student): List
+ approveStudentSelection(Student, ArrayList): boolean
+ rejectStudentSelection(Student, String): boolean
LecturerController
- lecturer: Lecturer
+ LecturerController(Lecturer)
+ LecturerController()
+ getLecturedCourses(): List
+ addLecturedCourse(Course): boolean
+ deleteLecturedCourses(Course): boolean
+ viewEnrolledStudents(Course): ArrayList
StudentController
- student: Student
+ StudentController(Student)
+ StudentController()
+ addCourse(Course): void
+ dropCourse(Course): void
+ getAvailableCourses(): ArrayList
+ getSelectedCourses(): ArrayList
+ getPersonName(): String
+ getPersonSurname(): String
+ getTranscript(): Transcript
+ getStatus(): String
+ sendApprovalRequest(): boolean
Transcript
-ArrayList listGrades
-String notes
+Transcript()
+Transcript(ArrayList)
+Transcript(ArrayList, String)
+getGrades() String
+getGradeList() ArrayList
+addGrade(Grade) boolean
+deleteGrade(Grade) boolean
+calculateCumulativeGPA() double
+calculateSemesterGPA(int) double
+getNotes() String
+setNotes(String) void
+toString() String
Grade
- course: Course
- grade: String
+ Grade()
+ Grade(Course, String)
+ getCourse(): Course
+ setCourse(Course): void
+ getGrade(): String
+ setGrade(String): void
Menu
- loginScanner: Scanner
- stringConstants: StringConstants
- loggedInUser: Person
- students: ArrayList
- advisors: ArrayList
- lecturers: ArrayList
- json: DataUtils
+ Menu()
+ loginMenu(): void
+ personMenu(): void
+ authenticate(String, String): boolean
+ getLoggedInUser(): Person
+ setLoggedInUser(Person): void
TimeInterval
- startTime: String
- endTime: String
- dayOfWeek: String
+ TimeInterval(String, String, String)
+ TimeInterval(String, String)
+ TimeInterval()
+ getStartTime(): String
+ setStartTime(String): void
+ getEndTime(): String
+ setEndTime(String): void
+ getDayOfWeek(): String
+ setDayOfWeek(String): void
+ getTotalTimeInMinutes(): int
+ getTimeIntervalInfo(): String
+ isOverlapping(TimeInterval): boolean