

Advisor
- studentNumbers: Collection<String> - registrationNumbers: Collection<String>
+ Advisor(FName: String, LName String, birthdate: Date, staffNo: String, courseIds: Collection<String>, studentNumbers: Collection<String>, registrationNumbers: Collection<String>) + <u>getAdvisorByStaffNo(staffNo: String): Advisor</u> + getActiveRegistrations(): Collection<Registration> - isActiveRegistration(registrationNo: String): Registration + proceedTheRegistration(registrationNo: String, status: RegistrationStatus): void + getStudentNumbers(): Collection<String> + setStudentNumbers(studentNumbers: Collection<String>): void + getRegistrationNumbers(): Collection<String> + setRegistrationNumbers(registrationNumbers: Collection<String>): void

<<Abstract>> Person
- personId: String - fName: String - lName: String - birthdate: Date
+ Person(FName: String, LName: String, birthdate: Date) + Person() + getPersonId(): String + setPersonId(personId: String): void + getFName(): String + setFName(FName: String): void + getLName(): String + setLName(LName: String): void + getBirthdate(): Date + setBirthdate(birthdate: Date): void

Department
- <u>allPeople: Collection<Person></u> - <u>allCourses: Collection<Course></u> - <u>allRegistrations: Collection<Registration></u> - <u>allStaffs: Collection<Staff></u> - <u>allStudents: Collection<Student></u> - <u>allLecturers: Collection<Lecturer></u> - <u>allAdvisors: Collection<Advisor></u>
+ Department() + <u>getAllStaffs(): Collection<Staff></u> + <u>setAllStaffs(allStaffs: Collection<Staff>): void</u> + <u>getAllRegistrations(): Collection<Registration></u> + <u>setAllStaffs(allRegistrations: Collection<Registration>): void</u> + <u>getAllPeople(): Collection<Person></u> + <u>setAllPeople(allPeople: Collection<Person>): void</u> + <u>getAllCourses(): Collection<Course></u> + <u>setAllCourses(allCourses: Collection<Course>): void</u> + <u>getAllStudents(): Collection<Student></u> + <u>setAllStudents(allStudents: Collection<Student>): void</u> + <u>getAllLecturers(): Collection<Lecturer></u> + <u>setAllLecturers(allLecturers: Collection<Lecturer>): void</u> + <u>getAllAdvisors(): Collection<Advisor></u> + <u>setAllAdvisors(allAdvisors: Collection<Advisor>): void</u> + <u>addAnObject(object: Object): void</u>

Lecturer
- courseIds: Collection<String>
+ Lecturer(FName: String, LName: String, birthdate: Date, staffNo: String, courseIds Collection<String>) + <u>getLecturerByStaffNo(staffNo: String): Lecturer</u> + getCourseIds(): Collection<String> + setCourses(courseIds: Collection<String>): void

<<Abstract>> Staff
- staffNo: String
+ Staff(FName: String, LName: String, birthdate: Date, staffNo: String) + getStaffNo(): String + setStaffNo(staffNo: String): void

Student
- studentNo: String - courseCodes: Collection<String> - advisorNo: String - registrationNumbers: Collection<String>
+ Student(FName: String, LName: String, birthdate: Date, studentNo: String, courseCodes: Collection<String>, advisorNo: String, registrationNumbers: Collection<String>) + registerToNewCourse(courseCode: String, newRegistrationNo: String): void + <u>getStudentByStudentNo(studentNo: String): Student</u> + getRegistrationNumbers(): Collection<String> + setRegistrationNumbers(registrationNumbers: Collection<String>): void + getStudentNo(): String + setStudentNo(studentNo: String): void + getCourseCodes(): Collection<String> + setCourseCodes(courseCodes: Collection<String>): void + getAdvisorNo(): String + setAdvisorNo(advisorNo: String): void

IDGenerator
- id: String - idPrefix: String - idSuffix: String - digitCount: int - usedIDs: List<String> - isIdUnique: boolean
+ getId() + setId(id: String): void + getIdPrefix(): String + setIdPrefix(idPrefix: String): void + getIdSuffix(): String + setIdSuffix(idSuffix: String): void + getDigitCount(): int + setDigitCount(digitCount: int): void + getUsedIDs(): List<String> + setUsedIDs(usedIDs: List<String>): void + isIdUnique(): boolean + setIdUnique(isIdUnique: boolean): void - generateID(): String + generateNewID(idType: IDType): String

CourseRegistrationSystem
+ displayConsoleUI(): void

Course
- courseName: String - courseCode: String - lecturersNumbers: Collection<String> - courseSectionNo: String - studentNumbers: Collection<String> - prerequisitesIds: Collection<String>
+ Course(courseName: String, courseCode: String, lecturersNumbers: Collection<String>, courseSectionNo: String, studentNumbers: Collection<String>, prerequisitesIds: Collection<String>) + <u>getCourseByCourseCode(courseCode: String): Course</u> + getCourseName(): String + setCourseName(courseName: String): void + getCourseCode(): String + setCourseCode(courseCode: String): void + getLecturersNumbers(): Collection<String> + setLecturersNumbers(lecturersIds: Collection<String>): void + getCourseSectionNo(): String + getCourseName(courseSectionNo: String): void + getStudentNumbers(): Collection<String> + setStudentNumbers(studentNumbers: Collection<String>): void + getPrerequisitesIds(): Collection<String> + setStudentNumbers(prerequisitesIds: Collection<String>): void

Registration
- registrationNo: String - studentNo: String - advisorNo: String - courseCode: String - status: RegistrationStatus
- Registration(registrationNo: String, studentNo: String, advisorNo: String, courseCode: String, status: RegistrationStatus) + getRegistrationByRegistrationNo(registrationNo: String): Registration + getRegistrationNo(): String + setRegistrationNo(registrationNo: String): void + getStudentNo(): String + setStudentNo(studentNo: String): void + getAdvisorNo(): String + setAdvisorNo(advisorNo: String): void + getCourseCode(): String + setCourseCode(courseCode: String): void + getStatus(): RegistrationStatus + setStatus(status: RegistrationStatus): void + toString(): String

IDType
+ field: type
+ method(type): type

RegistrationStatus
+ field: type
+ method(type): type

Helper
+ field: type
+ method(type): type

StaffIDGenerator	StudentIDGenerator	PersonIDGenerator
+ StaffIDGenerator() - getUsedIDsByOtherStaffs(): List<String>	+ StudentIDGenerator() - getUsedIDsByOtherStudents(): List<String>	+ PersonIDGenerator() - GetUsedIDsByOtherPeople(): List<String>