Course Registration System

User

- userID : int
- name : string
- role : string
- password : string
- joiningYear - int

+ updateDeatailes()
+ updatePassword()
+ loginUser()

Student

+ + studentID: String
+ name: String
+ email: String
+ phoneNumber: String
+ department: String

+ getStudentID(): String
+ setName(name:string): void
+ getName(): String
+ setEmail(email:string): void
+ getEmail(): String
+ setPhoneNumber(phone:int): void
+ getPhoneNumber(): String
+ setDepartment(dept:string): void
+ getDepartment(): String
+ registerForCourse(): void
+ viewRegisteredCourses(): List<Course>
+ dropCourse(): void
+ viewReportCard(): ReportCard

Professor

+ professorID: String
+ name: String
+ email: String
+ designation: String
+ phoneNumber: String

+ getProfessorID(): String
+ getName(): String
+ setName(name: String): void
+ getEmail(): String
+ setEmail(email: String): void
+ getPhoneNumber(): String
+ setPhoneNumber(phoneNumber: String): void
+ signUpForCourse()
+ viewCourses(): List<CourseCatalog>
+ recordGrade(student: Student, course: Course, grade: String): void

Admin

- memberSince

+ addProfessor()
+ removeProfessor()
+addCourse()
+ removeCourse()
+ approveStudentRegistration()
+ approveStudentAccount()
+ generateCourse()
+ enableDisableFeePayment()

Course

- courseID: String
- courseName: String
- department: String
- professor: Professor
- prerequisites: List<Course>
- semesterOffered: String
- availableSeats: int

+ getCourseID(): String
+ getCourseName(): String
- setCourseName(name: String): void
+ getDepartment(): String
+ setDepartment(department: String): void
+ getProfessor(): Professor
+ setProfessor(professor: Professor): void
+ getPrerequisites(): List<Course>
+ addPrerequisite(course: Course): void
+ removePrerequisite(course: Course): void

Course Catalog

- courses: <List> courses

+ addCourse(course: Course)
+ viewCourseDetails(): void
+ deleteCourse(course: Course): void

Payment

- payment_id: String
- studentId: int
- semester: int
- amount: double
- payment_status: bool
- payment_date: String

+ getPaymentID()
+ getStudentID()
+ getPaymentAmount()
+ getSemester()
+ getPaymentStatus()
+ getPaymentDate()
+ setPaymentID(payment_id: String)
+ setSemester(semester: int)
+ setPaymentAmount(amount: double)
+ setPaymentStatus(payment_status: bool)
+ setPaymentDate(payment_date: String)
+ makepayment()

Billing System

- payment_id: String
- notificationID: int
- notificationMessage: String
- studentID : String

+ getPaymentID()
+ getStudentID()
+ getNotificationID()
+ getNotificationMessage()
+ setStudentID()
+ setPaymentID(payment_id: String)
+ setNotificationID(notificationID: int)
+ setNotificationMessage (notificationMessage: String)
+ calculatePaymentAmount ()
+ sendFeePaymentNotification(payment_status: bool)
+ sendPaymentCompleteNotification(payment_status: bool)

Semester Registration

- studentID : String
- semester: int

+ getStudentID()
+ getSemester()
+ registerCourses()
+ addCourses()
+ dropCourses()
+ payFees()
+ viewRegisteredCourses()
+ viewAvailableCourses()

Offline

- cashier: String
- branch: String

+ getCashier()
+ getBranch()
+ setCashier(cashier: String)
+ setBranch(branch: String)

Online

- type: string

+ getOnlinePaymentType()
+ setOnlinePaymentType()

UPI

- upiID: String

+ getUpiID()
+ setUpiID(upiID: String)

NetBanking

- modeOfTransfer: String
- transactionID: String

+ getModeOfTransfer()
+ getTransactionID()
+ setModeOfTransfer(modeOfTransfer: String)
+ setTransactionID(transactionID: String)

Report Card

- reportCardID: String
- student: Student
- semester: String
- courseGrades: List<CourseGrade>

+ getReportCardID(): String
+ getStudent(): Student
+ setStudent(student: Student): void
+ getSemester(): String
+ setSemester(semester: String): void
+ getCourseGrades(): List<CourseGrade>

Registered Courses

- courseCode: String
- semester : int
- studentID: String

+ viewGrade()
+ dropCours()
+ addCourse()
+ viewStudentEnrollmentList()

Course Grade

course: Course
grade: String

+ getCourse(): Course
+ setCourse(course: Course): void
+ getGrade(): String
+ setGrade(grade: String): void

Text