

Student Success Tracker
Class Diagram (Pseudo Code)
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Class: Student

1) FUNCTION Student(studentID, firstName, lastName, email, status, program, department, startDate)

```
    RETURN studentID
    RETURN firstName
    RETURN lastName
    RETURN email
    RETURN status
    RETURN program
    RETURN department
    RETURN startDate
END FUNCTION
```

2) FUNCTION getFirstName(): string

```
    RETURN firstName
```

```
END FUNCTION
```

3) FUNCTION getLastname(): string

```
    RETURN lastName
```

```
END FUNCTION
```

4) FUNCTION getEmail(): string

```
    RETURN email
```

```
END FUNCTION
```

5) FUNCTION getStatus(): string

```
    RETURN status
```

```
END FUNCTION
```

6) FUNCTION getProgram(): string

```
    RETURN program
```

```
END FUNCTION
```

7) FUNCTION getDepartment(): string

```
    RETURN department
```

```
END FUNCTION
```

8) FUNCTION getStartDate(): date

```
    RETURN firstName  
END FUNCTION
```

```
9) FUNCTION setFirstName(firstName: string)  
    SET self.firstName to firstName  
END FUNCTION
```

```
10) FUNCTION setLastName(LastName: string)  
    SET self.lastName to lastName  
END FUNCTION
```

```
11) FUNCTION setEmail>Email: string)  
    SET self.email to email  
END FUNCTION
```

```
12) FUNCTION setStatus(status: string)  
    SET self.status to status  
END FUNCTION
```

```
13) FUNCTION setProgram(program: string)  
    SET self.program to program  
END FUNCTION
```

```
14) FUNCTION setDepartment(department: string)  
    SET self.department to department  
END FUNCTION
```

```
15) FUNCTION setStartDate(startDate: date)  
    SET self.startDate to startDate  
END FUNCTION
```

Class: Advisor

```
1) FUNCTION Advisor(advisorID, firstName, lastName, department)  
    RETURN advisorID  
    RETURN firstName  
    RETURN lastName  
    RETURN email  
    RETURN department  
END FUNCTION
```

```
2) FUNCTION getFirstName(): string
```

```
    RETURN firstName  
END FUNCTION
```

```
3) FUNCTION getLastName(): string  
    RETURN lastName  
END FUNCTION
```

```
4) FUNCTION getEmail(): string  
    RETURN email  
END FUNCTION
```

```
5) FUNCTION getDepartment(): string  
    RETURN department  
END FUNCTION
```

```
6) FUNCTION setFirstName(firstName: string)  
    SET self.firstName to firstName  
END FUNCTION
```

```
7) FUNCTION setLastName(lastName: string)  
    SET self.lastName to lastName  
END FUNCTION
```

```
8) FUNCTION setEmail(email: string)  
    SET self.email to email  
END FUNCTION
```

```
9) FUNCTION setDepartment(department: string)  
    SET self.department to department  
END FUNCTION
```

Class: Activity

```
1) FUNCTION Activity(activityID, activityType, title, date, description)  
    RETURN activityID  
    RETURN activityType  
    RETURN title  
    RETURN date  
    RETURN description  
END FUNCTION
```

```
2) FUNCTION getActivityType(): string
```

```
    RETURN activityType  
END FUNCTION
```

```
3) FUNCTION getTitle(): string  
    RETURN title  
END FUNCTION
```

```
4) FUNCTION getDate(): date  
    RETURN date  
END FUNCTION
```

```
5) FUNCTION getDescription(): string  
    RETURN description  
END FUNCTION
```

```
6) FUNCTION setActivityType(activityType: string)  
    SET self.activityType to activityType  
END FUNCTION
```

```
7) FUNCTION setTitle(title: string)  
    SET self.title to title  
END FUNCTION
```

```
8) FUNCTION setDate(date: date)  
    SET self.date to date  
END FUNCTION
```

```
9) FUNCTION setDescription(description: string)  
    SET self.description to description  
END FUNCTION
```

Class: Course

```
1) FUNCTION Course(courseID, credits, instructor, startDate, grade, semester)  
    RETURN courseID  
    RETURN credits  
    RETURN instructor  
    RETURN startDate  
    RETURN grade  
    RETURN semester  
END FUNCTION
```

```
2) FUNCTION getCourseID(): string
```

```
    RETURN courseID  
END FUNCTION
```

3) FUNCTION Credits(): int
 RETURN credits
END FUNCTION

4) FUNCTION getInstructor(): string
 RETURN instructor
END FUNCTION

5) FUNCTION getStartDate(): date
 RETURN startDate
END FUNCTION

6) FUNCTION getGrade(): int
 RETURN grade
END FUNCTION

7) FUNCTION getSemester(): string
 RETURN semester
END FUNCTION

8) FUNCTION setCourseID(courseID: string)
 SET self.courseID to courseID
END FUNCTION

9) FUNCTION setCredits(credits: int)
 SET self.credits to credits
END FUNCTION

10) FUNCTION setInstructor(instructor: string)
 SET self.instructor to instructor
END FUNCTION

11) FUNCTION setStartDate(startDate: date)
 SET self.startDate to startDate
END FUNCTION

12) FUNCTION setGrade(grade: int)
 SET self.program to program
END FUNCTION

```
13) FUNCTION setSemester(semester: string)
    SET self.semester to semester
END FUNCTION
```

Class: Student

```
1) FUNCTION Student(studentID, firstName, lastName, email, status, program, department,
startDate)
```

```
    RETURN studentID
    RETURN firstName
    RETURN lastName
    RETURN email
    RETURN status
    RETURN program
    RETURN department
    RETURN startDate
END FUNCTION
```

```
2) FUNCTION getFirstName(): string
```

```
    RETURN firstName
```

```
END FUNCTION
```

```
3) FUNCTION getLastName(): string
```

```
    RETURN lastName
```

```
END FUNCTION
```

```
4) FUNCTION getEmail(): string
```

```
    RETURN email
```

```
END FUNCTION
```

```
5) FUNCTION getStatus(): string
```

```
    RETURN status
```

```
END FUNCTION
```

```
6) FUNCTION getProgram(): string
```

```
    RETURN program
```

```
END FUNCTION
```

```
7) FUNCTION getDepartment(): string
```

```
    RETURN department
```

```
END FUNCTION
```

```
8) FUNCTION getStartDate(): date
```

```
    RETURN firstName  
END FUNCTION
```

```
9) FUNCTION setFirstName(firstName: string)  
    SET self.firstName to firstName  
END FUNCTION
```

```
10) FUNCTION setLastName(LastName: string)  
    SET self.lastName to lastName  
END FUNCTION
```

```
11) FUNCTION setEmail>Email: string)  
    SET self.email to email  
END FUNCTION
```

```
12) FUNCTION setStatus(status: string)  
    SET self.status to status  
END FUNCTION
```

```
13) FUNCTION setProgram(program: string)  
    SET self.program to program  
END FUNCTION
```

```
14) FUNCTION setDepartment(department: string)  
    SET self.department to department  
END FUNCTION
```

```
15) FUNCTION setStartDate(startDate: date)  
    SET self.startDate to startDate  
END FUNCTION
```

Class: Goal

```
1) FUNCTION Goal(goalID, goalDescription, goalType, targetDate, status)  
    RETURN goalID  
    RETURN goalDescription  
    RETURN goalType  
    RETURN targetDate  
    RETURN status  
END FUNCTION
```

```
2) FUNCTION getGoalID(): string  
    RETURN goalID
```

END FUNCTION

3) FUNCTION getGoalDescription(): string
 RETURN goalDescription

END FUNCTION

4) FUNCTION getGoalType(): string
 RETURN goalType

END FUNCTION

5) FUNCTION getTargetDate(): date
 RETURN TargetDate

END FUNCTION

2) FUNCTION getStatus(): string
 RETURN status

END FUNCTION