



ULAB Course Planner

1.. Review Class

- + reviewID: int
- + rating: float
- + comment: string
- reviewedTeacherID: int // Private (linked to Teacher)
- reviewUserID: int // Private (linked to Student)

+ timestamp: datetime

2. Teacher Class

+ teacherID: int

+ name: string

+ qualification: string

+ designation: string

rating: float // Protected (updated internally)

- coursesTaught: List<Course> // Private (internal data)

- reviews: List<Review> // Private (only teacher class can access)

3. Student Class

+ studentID: int

+ name: string

totalCredits: int // Protected (updated within class)

completedCredits: int // Protected (updated within class)

- coursesTaken: List<Course> // Private (internal tracking)

- passed courses: List<Course> // Private (for record-keeping)

+ mentorships: List<Mentorship> // Public (can be accessed by other classes)

4. Course Class

+ courseID: int

+ courseName: string

+ credits: int

teacher: Teacher // Protected (Only Course can modify)

+ studentsEnrolled: List<Student>

- schedule: Schedule // Private (Only Course handles schedule)

- resources: List<Resource> // Private (Only Course modifies resources)

5. Schedule Class

- + scheduleID: int
- courseID: int // Private (linked to Course)
- + section: string
- + time: string

6. Resource Class

- + resourceID: int
- + resourceName: string
- courseID: int // Private (linked to Course)
- + resourceType: string // Public (Notes, PPT, Books, etc.)

7. Forum Class (Q&A Feature)

- + forumID: int
- + question: string
- + postedBy: int // Student ID (public for reference)
- + answers: List<Answer>

8. Answer Class

- + answerID: int
- + answerText: string
- + answeredBy: int // Student ID
- + timestamp: datetime

9. Mentorship Class (For Student Guiding Feature)

- + mentorshipID: int
- mentorID: int // Private (linked to Student)
- menteeID: int // Private (linked to Student)
- + startDate: datetime
- + status: string // ("Active", "Completed")

