TEAM NO: 5

Online Learning Management System

**Student**

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**Attributes:**

- studentId: int

- name: string

- email: string

- password: string

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**Operations:**

+ enroll(course: Course): void

+ submitAssignment(assign: Assignment): void

+ takeQuiz(quiz: Quiz): void

**Resource**

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**Attributes:**

- resourceId: int

- courseId: int

- title: string

- description: string

- link: string

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**Operations:**

+ accessResource(): void

Enrollment

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**Attributes:**

- enrollmentId: int

- studentId: int

- courseId: int

- enrollDate: date

- grade: Grade

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**Operations:**

+ getCourse(): Course

+ getStudent(): Student

**Quiz**

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**Attributes:**

- quizId: int

- courseId: int

- title: string

- question: string

- correctAnswer: string

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**Operations:**

+ takeQuiz(student: Student): void

**Certificate**

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**Attributes:**

- certificateId: int

- courseId: int

- dateIssued: date

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**Operations:**

+ issueCertificate(student: Student): void

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| Grade |

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| - gradeId: int |

| - studentId: int |

| - courseId: int |

| - quizId: int |

| - grade: float |

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| + calculateGrade(): float |

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**Assginment**

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**Attributes:**

- assignmentId: int

- courseId: int

- title: string

- description: string

- dueDate: date

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**Operations:**

+ submitAssignment(student: Student): void

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**Course**

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**Attributes:**

- courseId: int

- name: string

- description: string

- instructorId: int

+---------------------------------------------------------------------------------------------------------------------------------+**Operations:**

+ addResource(resource: Resource): void

+ addQuiz(quiz: Quiz): void

+ addForum(forum: Forum): void

**Forum**

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**Attributes:**

- forumId: int

- courseId: int

- title: string

- description: string

- postDate: date

+-----------------------------------------------------------------------------------------------------------------------------------**Operations:**

+ createPost(student: Student, post: string): void

+ viewPosts(): List<Post>

**Instructor**

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**Attributes:**

- instructorId: int

- name: string

- email: string

- password: string

+---------------------------------------------------------------------------------------------------------------------------------------------**Operations:**

+ createCourse(course: Course): void

+ gradeAssignment(assign: Assignment, student: Student, grade: float): void

+ gradeQuiz(quiz: Quiz, student: Student, grade: float): void