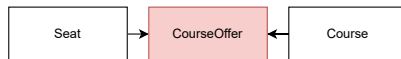


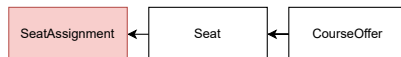
1. CourseLoad  
CourseLoad maintains a list of seatassignments, which contains the SeatAssignment (seat assignment/course grade) of all courses taken by the student in the semester. Each SeatAssignment is associated with a course grade, and GPA calculations are based on these grades.



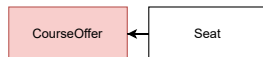
2. CourseCatalog  
CourseCatalog is responsible for managing the courses of the entire department. It contains courselist, which is an ArrayList<Course> used to store all courses in the department, and provides a getCourseList() method that can directly return a list of all courses.



3. CourseOffer  
CourseOffer represents a course offered in a particular semester. It is associated with Course, which represents a specific instance of a course offered in a particular semester, and contains seatlist, which represents the student registration status of the course, and the course number corresponding to the CourseOffer can be obtained through the getCourseNumber() method.



4. SeatAssignment  
It directly stores the student's grade in a certain course. SeatAssignment is the connection point between CourseLoad and CourseOffer, representing a course selected by the student. There is a method GetCourseStudentScore() that can directly obtain the student's grade in the course.



5. CourseOffer  
It represents a specific course in a semester. This class maintains seatlist, where each Seat represents a student position that can be registered. Seat is associated with SeatAssignment, which means that an occupied Seat represents a registered student.