

CRC Cards – Professors & Courses System

Class–Responsibilities–Collaborators

Class: Professor

Responsibilities

- Store professor information (name, ID, contact).
- Manage CRUD operations (create, read, update, delete).
- Retrieve all courses assigned to the professor.

Collaborators

- Course
- ProfessorCourseManager

Class: Course

Responsibilities

- Store course information (name, code, description).
- Manage CRUD operations.
- Retrieve all professors assigned to the course.

Collaborators

- Professor
- ProfessorCourseManager

Class: ProfessorCourseManager

Responsibilities

- Handle associations between professors and courses.
- Validate that both professor and course exist before linking.
- Provide queries to get professors by course or courses by professor.

Collaborators

- Professor
- Course
- Database (Repository Layer)

Class: SearchService

Responsibilities

- Handle search requests by professor name or course name.
- Fetch and format relationship data for display.
- Interface with the data manager to retrieve results efficiently.

Collaborators

- ProfessorCourseManager
- Professor
- Course

Class: Dashboard

Responsibilities

- Provide summarized system information (counts of professors, courses, and links).
- Offer quick navigation shortcuts (e.g., add new course/professor, view all).
- Display different layouts depending on user role (Admin vs General User).

Collaborators

- ProfessorCourseManager
- Professor
- Course