

# **Practical Assignment**

## **Project Detail**

Design and implement RESTful APIs for a simple Course Management Module, using which the system can manage (create, read, update, and delete) the following entities.

- Student( StudentID , FirstName, LastName ,DateOfBirth ,Address)
- Course(CourseID , Course Name , Instructor ,Credits)
- Enrollments (EnrollmentID , StudentID , CourseID ,EnrollmentDate)

## **Deliverables**

- Create basic CRUD APIs for each entity mentioned above
- Create an API that will take Student FirstName as an input and return a list of Enroll Course Details (case insensitive search)
- Create an API that will take the EnrollmentId as an input and return all Student Information who Enroll.
- Create an API that Will take StudentId and Return a list Student's EnrollmentDate.
- All APIs should have all basic validations implemented
- Use fluent validation (Optional)
- Error handling should be implemented
- A logger should be implemented
- Use EF/Linq (Optional)
- Implement Onion or N-Tier architecture (Optional)
- The code should be clean and readable