C01 UML Diagram User Course **Attributes Attributes** Auth0ID: string - Name: string - Image: string - Username: string - NumStudents: int - Avatar: string - Students: User[] - Name: string - Courses: Course[] UserDataStore CourseDataStore UserService CourseService + CreateCourse(course \*Course): (\*Course, error) + Register(user \*User): (\*User, error) + CreateUser(user \*User): (\*User, error) + CreateCourse(course \*Course): (\*Course, error) + GetCourseByName(name string): (\*Course, error) + GetUser(id string): (\*User, error) + GetUserByID(id string): (\*User, error) + GetCourse(name string): (\*Course, error) - DeleteUser(id string) DeleteUser(id string) DeleteCourse(name string) DeleteCourse(name string) + GetCourses(id string): ([]Course, error) + GetCourses(id string): ([]Course, error) + GetAllCourses(): ([]Course, error) + GetAllCourses(): ([]Course, error) + GetStudents(name string): ([]User, error) + GetStudents(name string): ([]User, error) JoinCourse(userID string, courseName string) JoinCourse(userID string, courseName string)

AddStudent(courseName string, studentID string)

- RemoveStudent(courseName string, studentID string)

LeaveCourse(userID string, courseName string)

LeaveCourse(userID string, courseName string)

AddStudent(courseName string, studentID string)

RemoveStudent(courseName string, studentID string)