

# .Net MVC Task

*Complete exercises below attaching a note explaining your approach to below question*

## Task 1

We would like the candidate to build a student and course management and registration system using MVC. The system should allow users to add, update and delete students and course. The system should also display a paged list of students in the system and be searchable. Also, the system should allow user to register course for each student.

The data should be read from a database and the students should have the following characteristics: **First Name, Surname, Gender, DOB, Address 1, Address 2 and Address 3.**

The courses should have the following characteristics: **Course Code, Course Name, Teacher Name, Start Date and End Date**

Please note: One student can choose max 5 different courses and there are limited spaces in each course. One student cannot register same course twice, also, one course cannot have same student twice.

## Task 2

Create the below SQL reports for above project. **Those reports must be built with SQL Views or SQL Stored Procedures.**

1. Show registered courses for each student
2. Show student list for each courses
3. Show how many students didn't register max course
4. Show how many courses still have the space

The code should be submitted as a ZIP file.

## Guidelines for the task

Data for the task should be read from a database. The task doesn't have to be completed fully, but the approach to the task should be correct. The candidate should display the ability to develop an N-tiered architecture and they can use the tools within Visual Studio to complete the task and submit the full project to us (Code and Database). We would like the candidate use product thinking for this task.

*Also, the candidate needs to provide the description of this task in word document. (For example, what design/code pattern(s) was used? Why used? etc.)*