# Homework: Entity Framework

This document defines the homework assignments from the ["Database Applications" Course @ Software University](https://softuni.bg/trainings/21/Database-Applications-Mar-2015). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## Create a Database for Student System using Code First

Your task is to create a database for student system, using the **EF code first** approach with the following tables:

* **Students** (with id, name, phone number, registration date, birthday)
* **Courses** (with id, name, description, start date, end date, price)
* **Materials** (with id, name, type of material, link)
* **Homework** (with id, content, content-type, date and time sent)

Additional requirements:

* Students can be in many courses
* Courses can have many students
* One course can have many homework submissions
* Homework submissions have a student
* Materials can belong to one or more courses

Add navigational properties in all models to simplify navigation. Annotate the data models with the appropriate attributes and validations and enable code first migrations.

## Seed Some Data in Database

Write a **seed method** that fills the database with sample data (randomly generated). Fill a few students, courses, materials and homework submissions. Configure the EF to run the seed method after the database is created for the first time.

## Write a Console Application that Works with the Data

Write a console application that:

* Lists all students and their homework submissions
* List all course and their materials
* Adds a new course with some materials
* Adds a new student
* Adds a new course material