# Homework: ASP.NET Web API

This document defines the homework assignments from [the "Web Services and Cloud" Course @ Software University](https://softuni.bg/courses/web-services-and-cloud/). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## Blog System Application

Your task is to create REST services using ASP.NET Web API for the Blog System demo from the Code First presentation in the Databases Applications course.

* Use high-quality code
* Use Repository pattern
* Create services for all available models
* Do not use scaffolding

Make the ASP.NET Web API application to work with repositories. Create ApiController for every repository and make actions (methods) for CRUD operations in each controller.

## Create Music System Application

Using ASP.NET Web API and Entity Framework (code first or database first) create a database and web services with full CRUD (create, read, update, delete) operations for hierarchy of following classes:

* Artists (Name, Country, DateOfBirth, etc.)
* Albums (Title, Year, Producer, etc.)
* Songs (Title, Year, Genre, etc.)
* Every album has a list of artists
* Every song has artists
* Every album has list of songs

## Consume services with C#

Your task is to create console application and demonstrate the use of all service operations from the previous task using the **HttpClient** class (with both JSON and XML).

## \* Create JavaScript-base single-page application

Your task is to create JavaScript-based singe-page application and consume the service to display the user interface for:

* Creating, updating and deleting artists
* Creating, updating and deleting songs
* Creating, updating and deleting albums (with cascade deleting)
* Show pageable, sortable and filterable artist songs and albums using OData