

Adaugarea Bazei de Date

In Web.config adaugati ConnectionString-ul bazei de date dupa instalare EF si crearea bazei de date.

```
<connectionStrings>
     <add name="DbConnectionString" providerName="System.Data.SqlClient" connectionString=" Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Andreea\source\repos\DAW2020\lab7\lab7\App_Data\Lab7.mdf;Integrated Security=True"/>
     </connectionStrings>
```

Modelul Book

In Models creati clasa Book.cs.

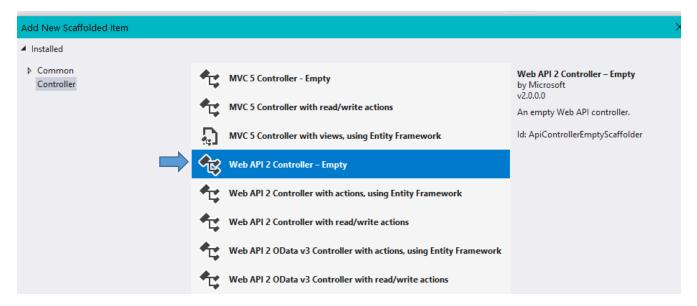
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace lab7.Models
{
    public class Book
    {
        public int BookId { get; set; }
```

```
public string Title { get; set; }
    public string Author { get; set; }
}
public class DbCtx : DbContext
{
    public DbCtx() : base("DbConnectionString")
    {
        Database.SetInitializer<DbCtx>(new DropCreateDatabaseIfModelChanges<DbCtx>());
    }
    public DbSet<Book> Books { get; set; }
}
```

Api Controller

In folder-ul Controllers creati BooksController. La crearea sa selectati 'Web Api 2 Controller – Empty'.



[!] Observati ca BooksController nu mai mosteneste clasa Controller, ci ApiController!

BooksController.cs

```
using lab7.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Net;
using System.Net.Http;
using System.Web.Http;
namespace lab7.Controllers
    public class BooksController : ApiController
        private DbCtx ctx = new DbCtx();
        // asemanatoare cu actiunea Index pe care o foloseam in proiectele MVC
       public List<Book> Get()
            return ctx.Books.ToList();
        // asemanatoare cu actiunea Details pe care o foloseam in proiectele MVC
        public IHttpActionResult Get(int id)
            Book book = ctx.Books.Find(id);
```

```
if (book == null)
                // returneaza codul 404
                return NotFound();
            // returneaza codul de succes 200, iar in body vor fi memorate datele obiectului book
            return Ok(book);
        }
        // asemanatoare cu actiunea New pe care o foloseam in proiectele MVC \,
        public IHttpActionResult Post([FromBody] Book book)
            ctx.Books.Add(book);
            ctx.SaveChanges();
            // helperul Created contine, pe lânga obiectul nou-creat, si adresa la care el va fi gasit
            var uri = new Uri(Url.Link("DefaultApi", new { id = book.BookId }));
            return Created(uri, book);
        }
        // asemanatoare cu actiunea Edit pe care o foloseam in proiectele
        public IHttpActionResult Put(int id, [FromBody] Book b)
            Book book = ctx.Books.Find(id);
            if (book == null)
                return NotFound();
            book.Title = b.Title;
            book.Author = b.Author;
            ctx.SaveChanges();
            return Ok(book);
        }
        public IHttpActionResult Delete(int id)
            Book book = ctx.Books.Find(id);
            if (book == null)
                return NotFound();
            ctx.Books.Remove(book);
            ctx.SaveChanges();
            return Ok(book);
   }
}
```