**C# MVC Frameworks - ASP.NET Core - юли 2018**

1. **Resources**

Link: <https://softuni.bg/trainings/2029/c-sharp-mvc-frameworks-aspnet-core-july-2018/internal>

[Фейсбук група](https://www.facebook.com/groups/SoftUniCsharpMVCFrameworksASPNETCoreJuly2018/): https://www.facebook.com/login/?next=https%3A%2F%2Fwww.facebook.com%2Fgroups%2FSoftUniCsharpMVCFrameworksASPNETCoreJuly2018%2F

[Форум](https://softuni.bg/forum/categories/31/csharp-mvc-frameworks-asp-net):

https://softuni.bg/forum/categories/31/csharp-mvc-frameworks-asp-net

**02. Course Introduction - 2 юли**

* About the course
* Trainers
* Exams, etc.

link: <https://youtu.be/wINsWNJWr1Q>

**03. ASP.NET Core Introduction - 4 юли**

* The ASP.NET Core Stack
* Setup
* Installing SDK
* ASP.NET Core Templates
* Startup Configuration
* Entity Framework Core

link: <https://youtu.be/H4masHTJt7E>

**04. Exercise - Simple Application - 5 юли**

* Creating simple web application without MVC

link: <https://youtu.be/ER7jA0TUOhc>

**05. Basics and Razor Pages - 6 юли**

* Routing - Conventional and Attribute based, parameters, naming convensions, method routing
* Razor - Syntax and Layout page, DI - Using DI in controllers and services
* Razor Pages intro: using, adding models

link: <https://youtu.be/7Qr5jQW589I>

**06. Basics and Razor Pages – Exercise - 9 юли**

* Mini-app with MVC and DB - CRUD without users

link: <https://youtu.be/zJ2Hg6XTrG0>

**07. Razor Pages Architecture - 11 юли**

* Links
* Handlers
* Routing
* Configuration

link: <https://youtu.be/4JHerj6SJfw>

**08. Razor Pages Architecture – Exercise - 12 юли**

* Extending the application, adding complex logic

link: <https://youtu.be/40edbNPhYEU>

**09. MVC Architecture Components - 13 юли**

* Controllers
* Helpers - HTML Helpers, Tag Helpers
* Models, model binding

link: <https://youtu.be/i7X4WbfF8dc>

**10. MVC Architecture Components – Exercise - 16 юли**

* Creating a Web application using the MVC pattern
* Advanced topics: Razor syntax, HTML helpers / tag helpers, display / editor templates

link: <https://youtu.be/0Fpw8tIvqY4>

link: <https://youtu.be/2_74Uqr9xB8>

**11. Filters - 18 юли**

* Common Controller and Action filters - HttpGet, HttpPost, ValidateAntiForgeryToken, etc.
* Custom filters - Action Filters, Authorization Filters, Resource Filters, Exception Filters, Result Filters

link: <https://youtu.be/BeyN2BwENKs>

**12. Filters Exercise - 19 юли**

* Extending the web app from the previous exercises with filters

link: <https://youtu.be/2_74Uqr9xB8>

link: <https://youtu.be/hV1MQPKNXKo>

**13. Identity - 20 юли**

* Authentication - AccountController, Authorize Filter, HttpContext Authentication, Finding the current principal
* Roles - Creating and authorizing roles

link: <https://youtu.be/HCQ_p6CI3w0>

#### 14. Identity - Exercise - 23 юли

link:

#### 15. Architecture, Part I - 25 юли

* Workshop: Areas - Area routes, area attribute, folder structure
* Inversion of Control - Repository Pattern
* Automapping - Easy view models, AutoMapper conventional based configuration
* Thin Controllers - Extracting common logic to filters and services, a.k.a Business layer.

link: <https://youtu.be/f6BLsOaxg5k>

#### 16. Architecture, Part I - Exercise - 26 юли

* Adding additional functionality, using thin controllers

link: <https://youtu.be/5Czox-tvAS8>

#### 17. Architecture, Part II - 27 юли

* Deep dive into Identity, OAuth providers, API keys, etc.
* Overview and usage of multi-tier applications

#### link: <https://youtu.be/ml9tf_KjSi4>

#### 18. Architecture, Part II - Exercise - 30 юли

link: <https://youtu.be/spo15WdFTso>

#### 19. Advanced Topics - 1 Август

* Localization
* AJAX elements

link: <https://youtu.be/l9LATC9Fu_g>

#### 20. Advanced Topics - Exercise - 2 Август

* Cache
* File upload and handling
* Security basics, secrets
* Deployment

link: <https://youtu.be/vwZ8vA_kMvk>

#### 21. Unit Testing - 3 Август

* Mocking with Moq. Mocking base objects and custom objects
* Writing Tests - Controller testing, Service testing, Route testing
* Integration testing

link: <https://youtu.be/gJTMmuNe3S8>

#### 22. Unit Testing - Exercise - 6 Август

link:

#### 23. ASP.NET WebAPI - 8 Август

* REST Standard, Developing/Consuming Services - JSON/XML services, Content Negotiation, HttpClient, JWT Authentication
* CORS - Configuration

link:

#### 24. ASP.NET SignalR - 9 Август