Web Application Development with ASP.NET MVC 5

Hands-on course of 4 days - 28h
Ref.: ASA - Price 2024: CHF2 390 (excl. taxes)

THE PROGRAMME

last updated: 01/2018

1) Introduction
- Summary of Web technologies of the .NET framework.
- Overview of the MVC5 model.
- .NET MVC5 projects in VS2013.
Hands-on work : Creating an MVC5 application.

2) Model and controllers.
- Modeling your domain.
- Using strongly typed views. Data linking.
- Using Entity Framework 6 in MVC5.
- Implementing actions. Managing models.
- Filter management. Displaying and publishing data.
Hands-on work : Development of MVC4 models. Creating MVC5 controllers.

3) Views
- Razor view engine. Dynamic content.
- View model. Application of CSS styles.
Hands-on work : Creating MVC5 views, using Bootstrap in MVC5.

4) URL Routing
- URL patterns. Designing the routing.
- Routing customization, Routing attributes in MVC5.
Hands-on work : Routing scenarios and MVC5 navigation structures.

5) Ajax and jQuery
- Ajax Helper and jQuery/jQueryUI.
- Partial updates. Cache management.
- Other optimization techniques.
Hands-on work : Creating JavaScript pages and MVC5 Ajax

6) Validation and security
- Server-side validation. DataAnnotations, alternative techniques, client-side validation.
- Alternative techniques. Client-side validation. Authentication modes.
- Implementing ASP.Net authentication and role management. Auditing the code's security.
- ASP.NET Identity in MVC 5, Authentification filters.
Hands-on work : Implementing security in an MVC 5 application.

7) Web API and development
- Implementing Web API. Managing REST requests. Web and Mobile clients.
- HTTP modules and HTTP managers. Unit tests and exception management.

- Deployment to a test server. Deployment to Azur. Types of deployment via VSTO.
Hands-on work : Managing application deployment.

DATES

REMOTE CLASS
2025 : 25 Mar, 17 Jun, 09 Sep, 02
Dec