ASP.NET Core – API

* **9:00-10:30 - Part 1 – 1.5 Hours**
* **10:30-10:45 - Break – 15 Mins**
* **10:45-12:15 - Part 2 – 1.5 Hours**
* **12:15-13:15 - Lunch – 1 Hour**
* **13:15-14:45 - Part 3 – 1.5 Hours**
* **14:45-15:00 - Break – 15 Mins**
* **15:00-16:30 - Part 4 – 1.5 Hours**

1. Getting Acquainted with ASP.NET Core
   1. The Big Picture
   2. Approaches
   3. The pipeline and middleware
2. Creating an API and returning resources
   1. Clarifying the MVC pattern
   2. Status codes
   3. Problem details
   4. Content negotiation
3. Validating Data
   1. Passing data to the API
   2. A validation Alternative
   3. Partially updating a resource
4. Services and DI
   1. Inversion of control (IOC) and DI
5. Entity Framework
   1. Introducing Entity Framework Core
6. EF in the Controllers
   1. Introducing the Repository Pattern
   2. The Purpose of Asynchronous Code
7. Searching, Filtering and Paging
   1. Searching and Filtering Resources
   2. Deferred Execution
   3. Paging Through Resources
   4. Returning Pagination Metadata
8. Securing API
   1. A Few Words on Securing APIs
   2. Implementing Token-based Security
   3. Working with Authorization Policies
9. Versioning
   1. Versioning Your API
   2. Documenting Your API with OpenAPI / Swagger
   3. Documenting API Authentication