**Application Development with ASP.NET Core MVC and** **Entity Framework Core**

**Trainer**

**Md. Mahedee Hasan**Senior Software Architect  
Leadsoft Bangladesh Limited

Microsoft MVP, Visual Studio & Development Technologies

Software Architect | [Microsoft MVP](https://mvp.microsoft.com/en-us/PublicProfile/5001294) | [Technical Blogger](http://mahedee.net/)| Technical Speaker

**Participant**

**Rajib Banik**

Full Stack Developer

EUROPEN-PEN International

Germany

**Date and Place**

Date: December 22nd to 28th, 2017 (9.00 AM to 6.00 PM)

Place: Trainer’s house, Dhaka, Bangladesh

***Note: The training will go through depending on the participant's adaptation level.***

**Course Outline**

**Module 1: Introduction to ASP.NET MVC**

**# Not required**

**Module 2: Controller in ASP.NET MVC**

**# Not required**

**Module 3: Razor Views**

**# Not required**

**Module 4: Entity framework (EF)**

**# Not required**

**Module 5: Working with data using EF**

**# Not required**

**Module 6: Identity and Security**

* Introduction
* Authentication and Authorization
* [Authentication Options](https://app.pluralsight.com/player?course=aspdotnet-mvc5-fundamentals&author=scott-allen&name=aspdotnet-mvc5-fundamentals-m3-identity&clip=1&mode=live)
* [Registration](https://app.pluralsight.com/player?course=aspdotnet-mvc5-fundamentals&author=scott-allen&name=aspdotnet-mvc5-fundamentals-m3-identity&clip=2&mode=live)
* Authorize attribute
* [Core Identity](https://app.pluralsight.com/player?course=aspdotnet-mvc5-fundamentals&author=scott-allen&name=aspdotnet-mvc5-fundamentals-m3-identity&clip=5&mode=live)
* [User Manager](https://app.pluralsight.com/player?course=aspdotnet-mvc5-fundamentals&author=scott-allen&name=aspdotnet-mvc5-fundamentals-m3-identity&clip=7&mode=live)
* [External Logins](https://app.pluralsight.com/player?course=aspdotnet-mvc5-fundamentals&author=scott-allen&name=aspdotnet-mvc5-fundamentals-m3-identity&clip=9&mode=live)
* [Third Party Claims](https://app.pluralsight.com/player?course=aspdotnet-mvc5-fundamentals&author=scott-allen&name=aspdotnet-mvc5-fundamentals-m3-identity&clip=10&mode=live)
* Mass assignment or Over posting
* SQL Injection
* Cross-site Scripting
* SSO (Single sign-on)

**Module 7: ASP.NET MVC Infrastructure**

* [Introduction](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m8-infrastructure&clip=0&mode=live)
* [Caching](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m8-infrastructure&clip=1&mode=live)
* [Cache Settings](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m8-infrastructure&clip=2&mode=live)
* [Cache Profiles](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m8-infrastructure&clip=3&mode=live)
* [Localization](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m8-infrastructure&clip=4&mode=live)
* [Resources](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m8-infrastructure&clip=5&mode=live)

**Module 8: Unit Testing**

* [Introduction](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m9-tests&clip=0&mode=live)
* [Test Driven Development](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m9-tests&clip=1&mode=live) (TDD)
* [~~Test Driven Design~~](https://app.pluralsight.com/player?course=mvc4-building&author=scott-allen&name=mvc4-building-m9-tests&clip=2&mode=live)
* ~~Test a Controller~~
* ~~Test an Action~~
* Libraries: mocking/faking
* Tool: AutoFixture

**Module 9: Deployment and Configuration**

* ~~Configure IIS~~
* ~~Prepare Release~~
* ~~Deploy application to IIS~~
* Azure Web Apps and Visual Studio Team Services (VSTS)
* Server less architecture with e.g. Azure Functions.
* Builds: Continues Integration
* Releases: Continuous Deployment

**Module 10: VSTS with Git repos for version control**

* Introduction
* Creating repository, clone, commit, push and full
* Basic git command
* How to resolve conflict
* Branching and merging

**Module 11: Pattern and Practice**

* Introduction
* Introduction of IOC
* Dependency Injection in ASP.NET MVC
* Domain Driven Design.
* Implement Generic Repository Pattern
* General Principles: SOLID, KISS, YAGNI, DRY

**Module 12: Web API Services**

* RESTful
* JSON