

دوره آموزش ADO.NET Entity Framwork ۶.۰

شرح مختصر
(LINQ to EF)

مروری بر دوره

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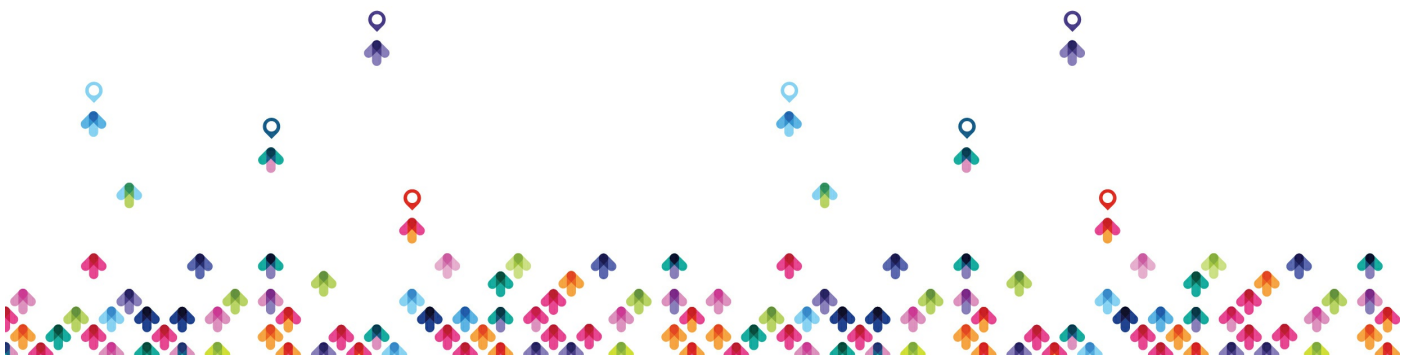
- این دوره یک دوره علمی/کاربردی بوده که با رویکرد مدل سازی بانک اطلاعات مبتنی بر تکنولوژی ADO.NET Entity Framework ۶.۰ می باشد.

سرفصل ها (حضور)

سرفصل ها

Module ۱: Language Integrated Query (LINQ) Lessons

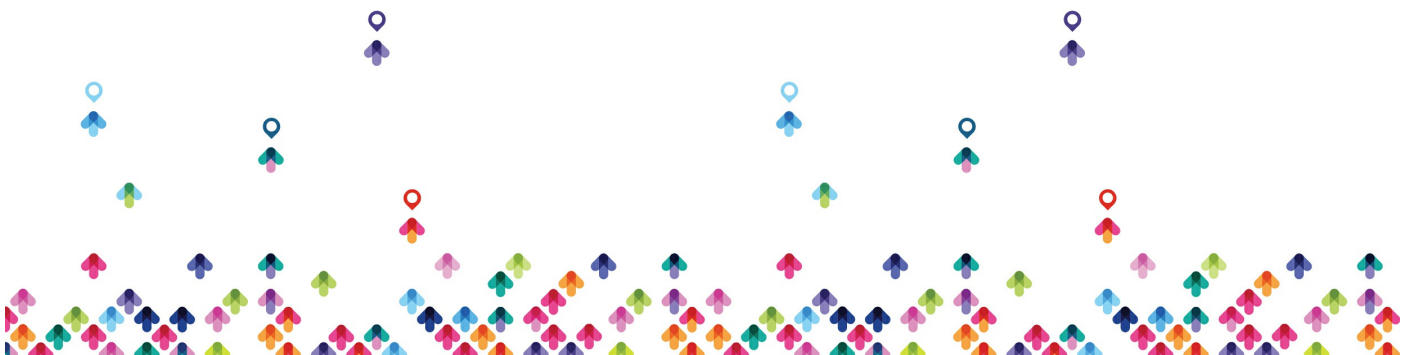
- Understanding delegates
- Use lambda expressions
- Creating and Using generic types
- Generic Class • Generic Interface
- Generic Method • Generic Delegate
- Covariance
- Contavaraince
- Implementing standard .NET Framework Delegate:



- Action • Func
- Predicate • Converter
- Comparer
- Implementing standard .NET Framework interface!
- IComparable
- IEnumerable
- IEnumerator
- Language features that make LINQ possible
- Object initialization syntax • Lambda expressions
- Extension methods
- Anonymous types
- Using LINQ queries
- Obtain the data
- Create a query
- Query Syntax
- Method Syntax
- Execute the query
- LINQ Operator
- Yield return & break

Module ۲: Entity Framework Code First (EFCF) Lessons

- Code First
- Introducing EF to the Domain Classes
- Overriding Convention with Configurations
- Understanding How Model Changes Impact Database Initialization
- Configuring Code First with the Data Annotation



- Configuring Code First with the Fluent API
- Using Conventions and Configurations for Property Attributes
- Working with Property Attributes in Code First • Mapping Keys
- Configuring Database-Generated Properties
- Configuring TimeStamp/RowVersion Fields for Optimistic Concurrency
- Configuring Non-Timestamp Fields for Concurrency
- Mapping to Non-Unicode Database Types
- Affecting the Precision and Scale of Decimals
- Working with Complex Types in Code First
- Configuring Properties of Complex Types
- Using Convention and Configuration for Relationships
- Working with Multiplicity
- Working with Foreign Keys
- Working with Inverse Navigation Properties
- Working with Cascade Delete
- Exploring Many-to-Many Relationships
- Working with Relationships that Have Unidirectional Navigation
- Working with One-to-One Relationships
- Using Conventions and Configurations for Database Mappings
- Mapping Class Name to Database Table and Schema Name
- Mapping Property Names to Database Columns
- Allowing Multiple Entities to Map to a Single Table: aka Table Splitting
- Mapping a Single Entity Across Multiple Tables
- Controlling Which Types Get Mapped to the Database
- Understanding Property Mapping and Accessibility
- Preventing Properties from Being Included in the Model



- Mapping Inheritance Hierarchies
- Working with Code First's Default Inheritance: Table Per Hierarchy (TPH)
- Configuring Table Per Type (TPT) Hierarchy
- Configuring for Table Per Concrete Type (TPC) Inheritance
- Working with Abstract Base Classes
- Mapping Relationships
- Controlling Database Location, Creation Process, and Seed Data
- Controlling the Database Location
- Working with Database Initialization
- Using Database Initializers to Seed Data
- Using Database Initialization to Further Affect Database Schema
- Fluent Validation
- Define Rules
- Validate Entity
- Exception Handling

مخاطبان دوره

مخاطبان دوره

کلیه افرادی که تجربه برنامه نویسی با زبان **C#** را به صورت حرفه ای دارند و قصد دارند نرم افزار را با استفاده از تکنولوژی **EF-Code First** به بانک اطلاعاتی، طراحی و پیاده سازی نمایند.



۱. روش های جستجو مبتنی بر LINQ
۲. آشنایی با طراحی بانک اطلاعاتی مبتنی بر Code First

پیش نیازها

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• C# Programming

