

.NET and C# Training
Session 8

#### Overall Agenda

Session 1 – 6: Basic and Advanced C# and VS

Session 7: Classes available in .NET BCL

**Session 8:** Data Access Basics (ADO.NET)

Session 9 - 10: C# Advanced concepts

Session 11 – 12: Data Access with Entity Framework 6

Session 13 – 14: Version Control with TFVC and Git

Session 15 – 16: ASP.NET (RESTful) Web APIS



#### Today's Agenda

- 1. Review last assignment (1 hr 15 min)
- 2. Review useful classes in the BCL (30 min)
- 3. Learn ADO.NET (2 hr)
- 4. New assignment (15 min)



## Review Last Assignment

#### Assignment 7

- Write a useful console app that gets its data from a web API
- To get you started, check out this free API listing: <a href="https://github.com/public-apis/public-apis">https://github.com/public-apis/public-apis</a>

Challenge: Cache the API results locally in the filesystem and use those local results instead of calling the API if they are fresh enough.





Reflection

Graphics

# SQL Server Local DB



SQL Server LocalDB and VS Data Tools



Connection

Provider

Command

DataAdapter and DataTable

DataReader

Dapper - MicroORM

#### Assignment 8

- Create a console to-do list application that stores its items and their statuses in a SQL Server LocalDB database
- Allow the user to view their to-do list, add items, remove items, and mark items complete

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Challenge 1: Create you console as a CLI instead of menu-based. (ex: todo help todo add "item 1" todo complete "item 1" todo list etc.)
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Challenge 2: Allow the user to view completed items and mark then as incomplete

