

# Entity Framework

# Agenda

- What it is
- Approaches
- How to start.

# What it is?

- EntityFramework is probably the #1 ORM choice in a database-driven .NET application.

# Approaches

- Database-first: you can point EF to a database and it will create a model for you using T4 templates. You can fine-tune the model in a design surface. => [T4 templates](#)
- Model-first: you have no database and use a design surface to draw your model. You can instruct the designer to create the database for you with all the tables
- Code-first: write your model in code as classes and instruct EF to generate the necessary database and tables.

# How to start?

- First step is to define your database context class.
  - It's the class which is derived from DbContext and contains the list of entities or DbSet.
- Second step is to create Migration for database change.
- Third step is to apply the migration to the database.