Getting Acquainted with Entity Framework Core

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Coming Up

Introducing Entity Framework Core

Working with Migrations

Safely Storing Sensitive Data

Seeding the Database

Object-Relational Mapping

Object-Relational Mapping (ORM) is a technique that lets you query and manipulate data from a database using an object-oriented paradigm

Introducing Entity Framework Core

Problem

Relational models and object models do not work very well together

Tabular database format versus an interconnected object graph

Solution

An ORM: the library that implements the object-relational mapping technique

It takes care of mapping between that tabular format and the object graph

Introducing Entity Framework Core

Entity Framework Core is a lightweight, extensible, and cross-platform version of Entity Framework

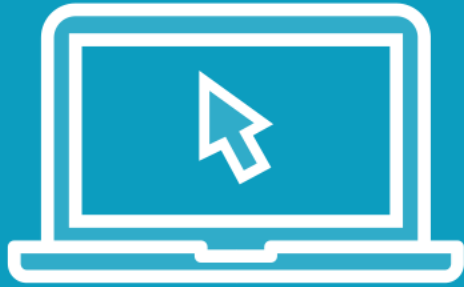**Recommended for .NET Core applications**

Introducing Entity Framework Core

Supports a variety of databases, even non-relational ones
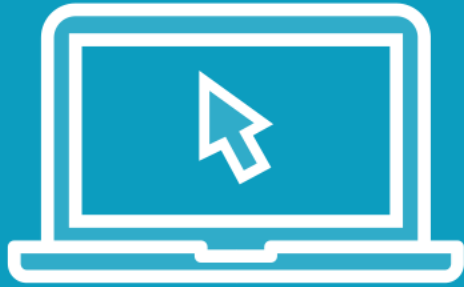
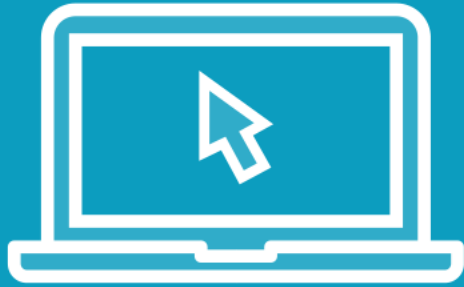**Code-first or database-first approach**
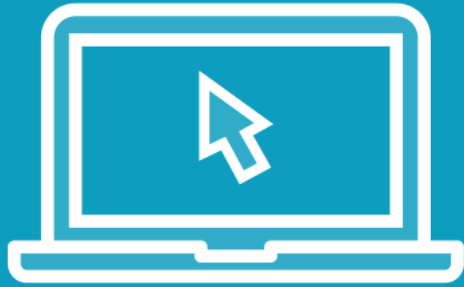
Demo

Creating entity classes

Demo

Creating a DbContext

Demo
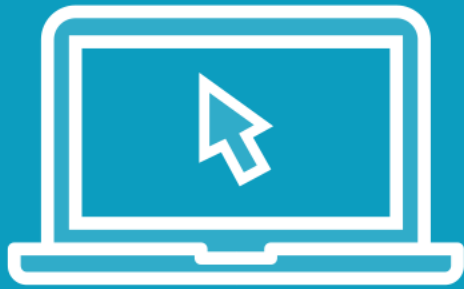
Working with migrations

Demo

Safely storing sensitive configuration data

Demo

Seeding the database with data

Summary

Object-Relational Mapping (ORM) is a technique that lets you query and manipulate data from a database using an object-oriented paradigm

Entity Framework Core is a lightweight, extensible, and cross-platform version of Entity Framework

Use annotations on entity classes to define primary and foreign keys, required fields, ...

Summary

DbContext represents a session with the database and can be used to query and save instances of entities

Migrations allow us to provide code to change the database from one version to another

- Add-Migration
- Remove-Migration

Summary

Use environment variables for safer storage of sensitive data

Seeding the database is providing it with data to start with

- HasData

- Add-Migration