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

- New applications that don't need the full EF6 feature set
- .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

Use environment variables for safer storage of sensitive data

Seeding the database is providing it with data to start with