ASP.NET CORE ANGULAR

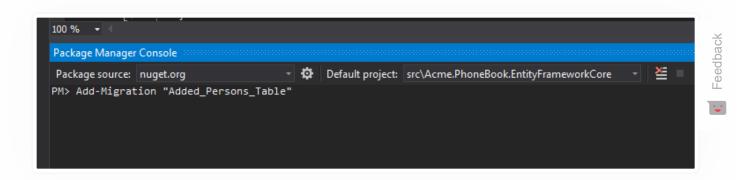
DOCUMENTS



Database Migrations for Person

We use **EntityFramework Code-First migrations** to migrate database schema. Since we added **Person entity**, our DbContext model is changed. So, we should create a **new migration** to create the new table in the database.

Open **Package Manager Console**, run the **Add-Migration "Added_Persons_Table"** command as shown below:



This command will add a migration class named "Added_Persons_Table" as shown below:

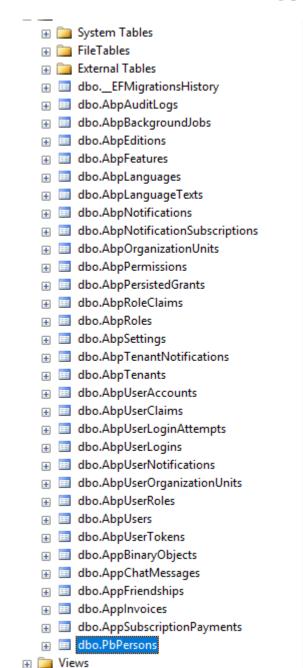
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We don't have to know so much about format and rules of this file. But, it's suggested to have a basic understanding of migrations. In the same Package Manager Console, we write **Update-Database** command in order to apply the new migration to database. After updating, we can see that **PbPersons table** is added to database.

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External Resources

But this new table is empty. In ASP.NET Zero, there are some classes to fill initial data for users and settings:

Feedback



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```
    ▷ C# DefaultEditionCreator.cs
    ▷ C# DefaultLanguagesCreator.cs
    ▷ C# DefaultSettingsCreator.cs
    ▷ C# HostRoleAndUserCreator.cs
    ▷ C# InitialHostDbBuilder.cs
    ☑ Tenants
    ▷ C# DefaultTenantBuilder.cs
    ▷ C# TenantRoleAndUserBuilder.cs
    ▷ C# SeedHelper.cs
    ▷ C# 20170406083347_Initial_Migration.cs
```

So, we can add a separated class to fill some people to database as shown below:

```
namespace Acme.PhoneBookDemo.Migrations.Seed.Host
    public class InitialPeopleCreator
    {
        private readonly PhoneBookDemoDbContext _context;
        public InitialPeopleCreator(PhoneBookDemoDbContext context)
        {
            _context = context;
        public void Create()
            var douglas = _context.Persons.FirstOrDefault(p => p.EmailAddress == "d
            if (douglas == null)
            {
                _context.Persons.Add(
                    new Person
                        Name = "Douglas",
                        Surname = "Adams",
                        EmailAddress = "douglas.adams@fortytwo.com"
                    });
            }-
            var asimov = _context.Persons.FirstOrDefault(p => p.EmailAddress == "is-
            if (asimov == null)
            {
                _context.Persons.Add(
                    new Person
```

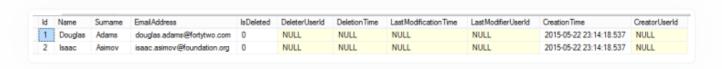
```
tmallAddress = "Isaac.asimov@Toundation.org"
});
}
}
}
```

These type of default data is good since we can also use these data in **unit tests**. Surely, we should be careful about seed data since this code will always be executed in each **PostInitialize** of your PhoneBookEntityFrameworkCoreModule. This class (InitialPeopleCreator) is created and called in **InitialHostDbBuilder** class. This is not so important, just for a good code organization (see source codes).

```
public class InitialHostDbBuilder
{
    //existing codes...

    public void Create()
    {
        //existing code...
        new InitialPeopleCreator(_context).Create();
        _context.SaveChanges();
    }
}
```

We run our project again, it runs seed and adds two people to PbPersons table:



Next

Creating Unit Tests for Person Application Service