

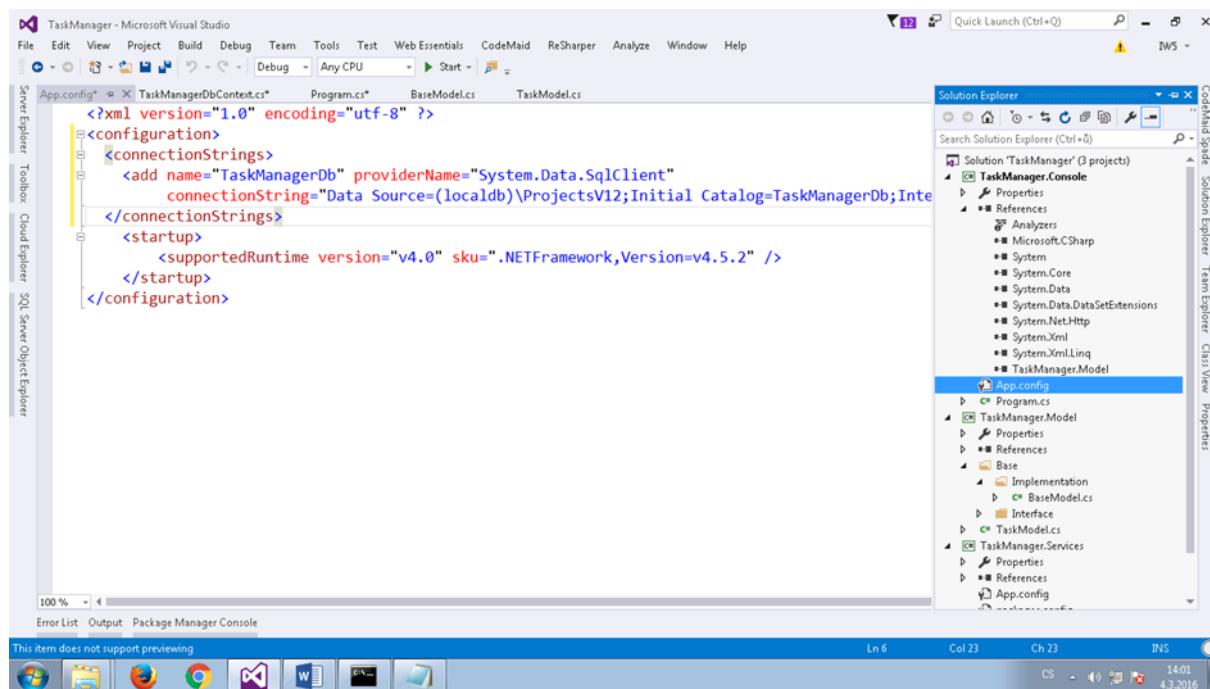
IW5 2015/2016 cvičení 2 – správný postup EF

1. Projekt TaskManager.Console nastavit jako výchozí (StartUp)
2. Do App.config (pod TaskManager.Console) přidat sekci

```
<connectionStrings>
    <add name="TaskManagerDb" providerName="System.Data.SqlClient" connectionString=
    "Data Source=(localdb)\ProjectsV12;Initial Catalog=TaskManagerDb;Integrated Security=True" />
</connectionStrings>
```

Pokud PC výkonově nezvládá, pak zkuste přidat na konec connection stringu
; Connection Timeout=180

Místo **(localdb)\ProjectsV12** by ve VS2015 mělo fungovat i **(localdb)\MSSQLLocalDB**. Ve VS2013 pak **(localdb)\v11.0**



3. Upravit konstruktor dbcontextu (TaskManager.Services TaskManagerDbContext.cs)

```
public TaskManagerDbContext()
    : base("TaskManagerDb")
{}
```

Alternativně (pokud nemáme k dispozici výchozí projekt a jeho App.config) pak lze i

```
public TaskManagerDbContext()
    : base(@"Data Source=(localdb)\ProjectsV12;Initial Catalog=TaskManagerDb;Integrated Security=True")
{}
```

```

using System.Threading.Tasks;
using TaskManager.Model;

namespace TaskManager.Services
{
    public class TaskManagerDbContext : DbContext
    {
        public TaskManagerDbContext()
            : base("TaskManagerDb")
        {
        }

        public DbSet<TaskModel> Tasks { get; set; }

        protected override void OnModelCreating(DbModelBuilder modelBuilder)
        {
            base.OnModelCreating(modelBuilder);
            modelBuilder.Entity<TaskModel>().ToTable("Tasks");

            modelBuilder.Entity<TaskModel>().HasOptional(t => t.ParentTask).WithMany(t => t.Tasks);
        }
    }
}

```

4. Do TaskManager.Services pomocí Package Manager Console nainstalujte Entity Framework, povolte migrace, přidejte první migraci Initial_Migration a proveděte update database:

- Install-package entityframework
- Enable-migrations
- Add-migration Initial_Migration
- Update-database

```

PM> Enable-Migrations
Checking if the context targets an existing database...
Code First Migrations enabled for project TaskManager.Services.

PM> Add-Migration 'Initial migration'
Scaffolding migration 'Initial migration'.
The Designer Code for this migration file includes a snapshot of your current Code First model. This snapshot is used to calculate the changes to your model when you scaffold the next migration. If you make additional changes to your model that you want to include in this migration, then you can re-scaffold it by running 'Add-Migration Initial migration' again.

PM> Update-Database
Specify the 'Verbose' flag to view the SQL statements being applied to the target database.
Applying explicit migrations: [201603041307216_Initial migration].
Applying explicit migration: 201603041307216_Initial migration.
Running Seed method.

PM>

```

5. Nyní byste již měli mít v okně SQL Server Object Explorer novou databázi **TaskManagerDb** včetně tabulek

