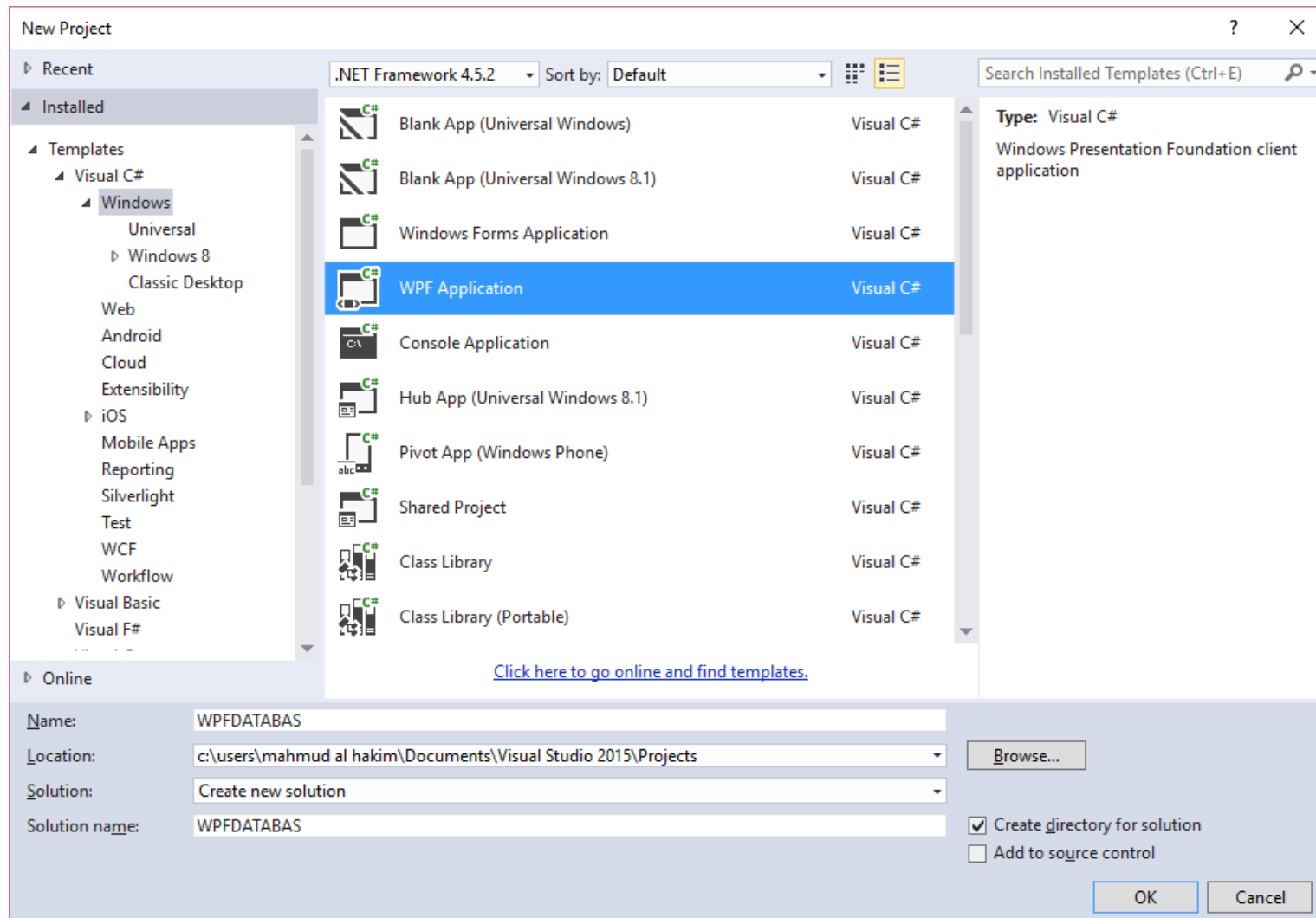


ATT SKAPA EN WPF-APPLIKATION MED EN "EF-CODE-FIRST" DATABAS

Mahmud Al Hakim
mahmud@alhakim.se
www.alhakim.se

STEG 1 – SKAPA EN NY WPF-APPLIKATION



STEG 2 – LÄGG TILL ENTITY FRAMEWORK

NuGet: WPFDATABAS

NuGet Package Manager: WPFDATABAS

Package source: Filter: Include prerelease

Search (Ctrl+E)

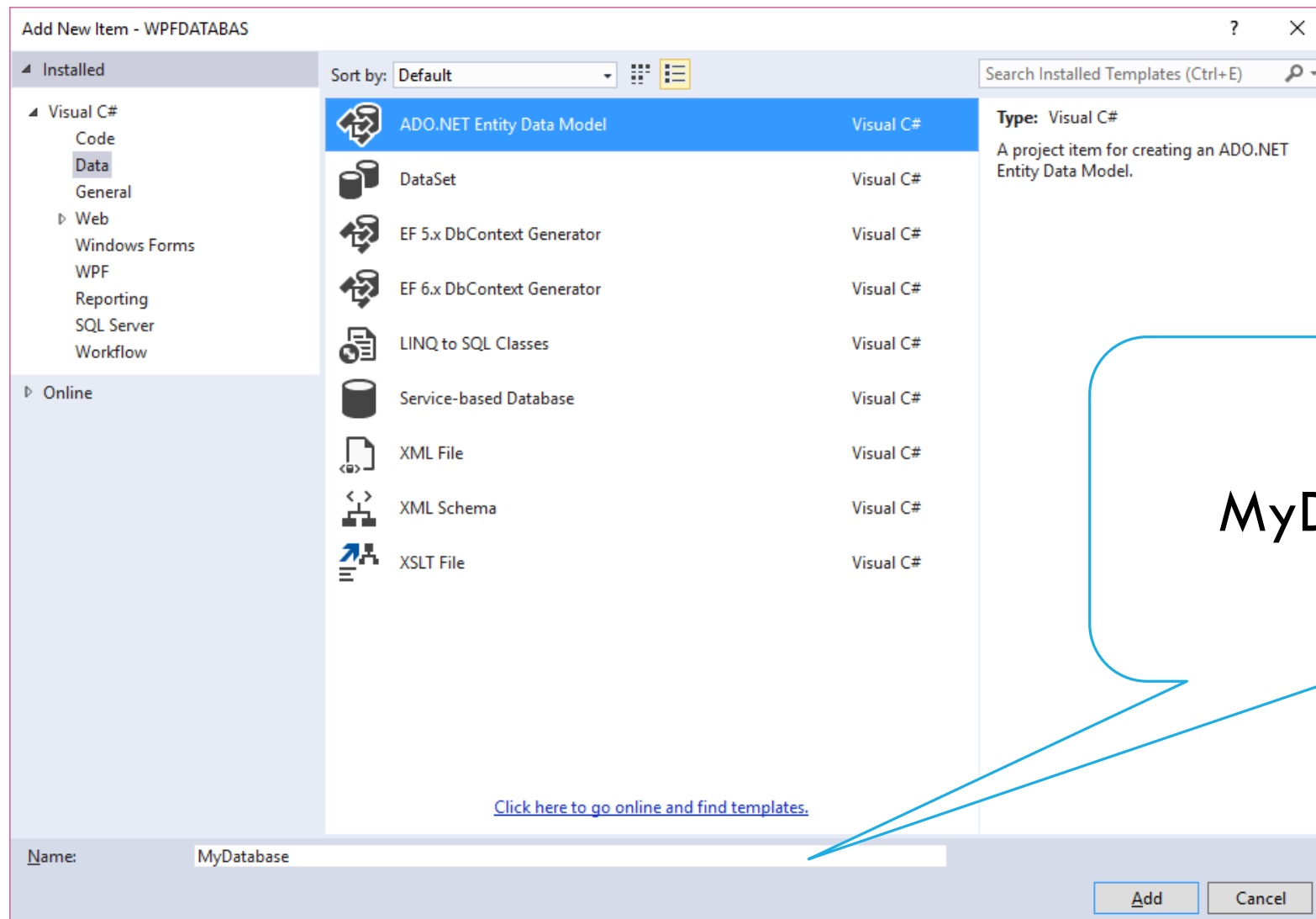
Newtonsoft.Json
Json.NET is a popular high-performance JSON framework for .NET

EntityFramework
Entity Framework is Microsoft's recommended data access technology f...

.NET EntityFramework

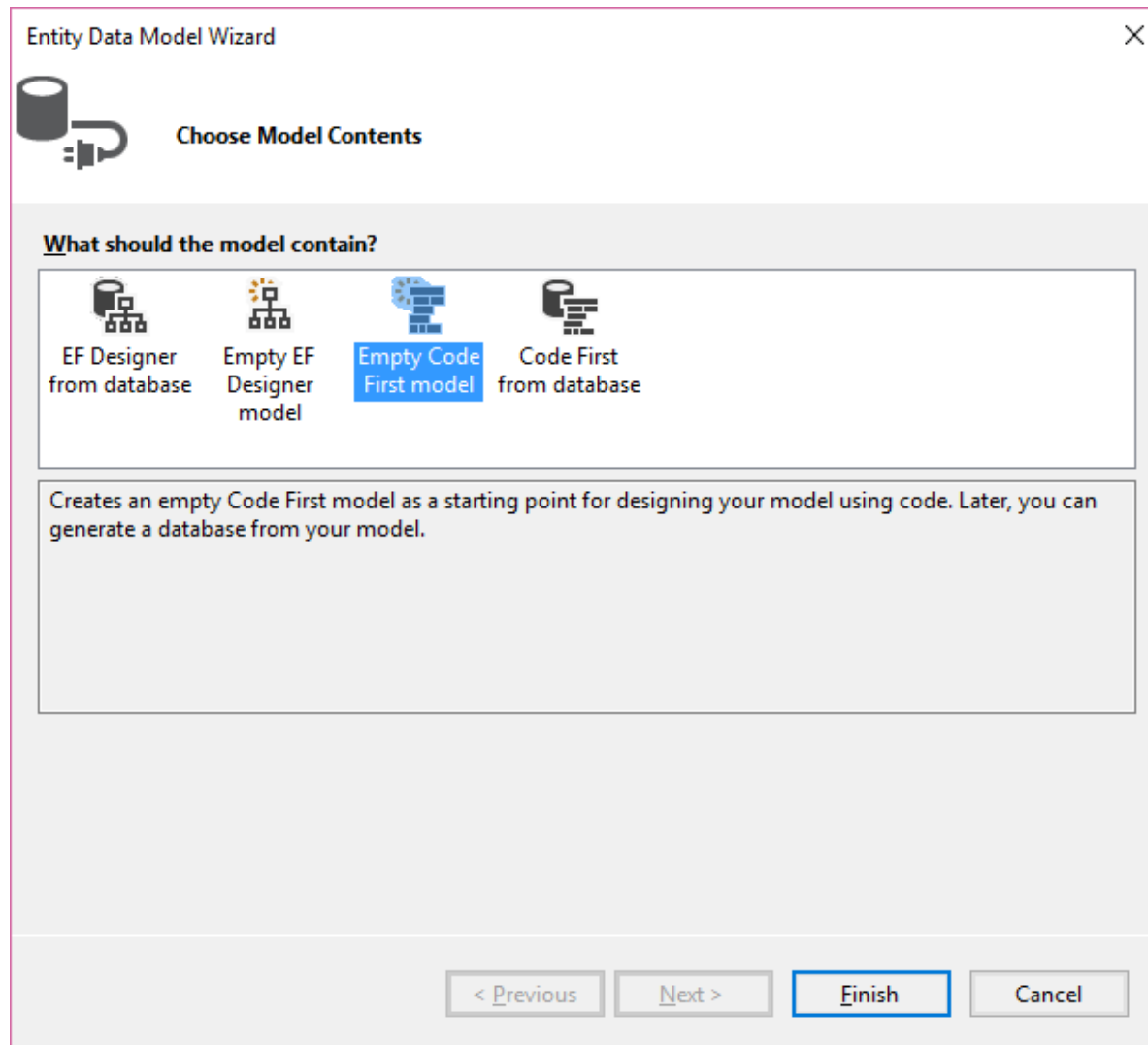
Action: Version:

STEG 3 – LÄGG TILL EN NY ADO.NET ENTITY DATA MODEL

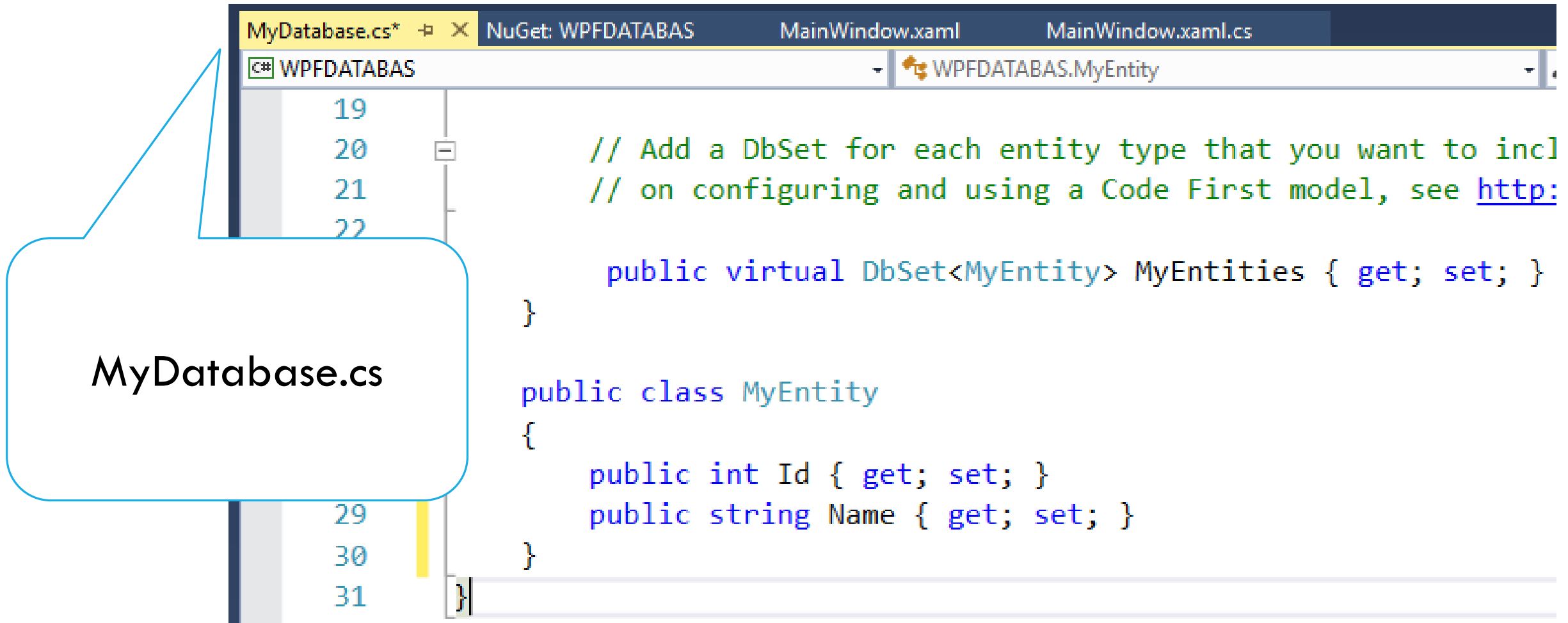


MyDatabase

STEG 4 – VÄLJ ”EMPTY CODE FIRST MODEL”



STEG 5 – SKAPA EN NY ”ENTITY” OCH EN DBSET (OBS! DU HAR FÅTT EN NY CS-FIL MED EN GRUNDMALL)



The image shows a Visual Studio code editor window with the following tabs: MyDatabase.cs*, NuGet: WPFDATABAS, MainWindow.xaml, and MainWindow.xaml.cs. The active file is MyDatabase.cs, which contains the following code:

```
19  
20 // Add a DbSet for each entity type that you want to include  
21 // on configuring and using a Code First model, see http:  
22  
    public virtual DbSet<MyEntity> MyEntities { get; set; }  
}  
  
public class MyEntity  
{  
    public int Id { get; set; }  
    public string Name { get; set; }  
}  
}
```

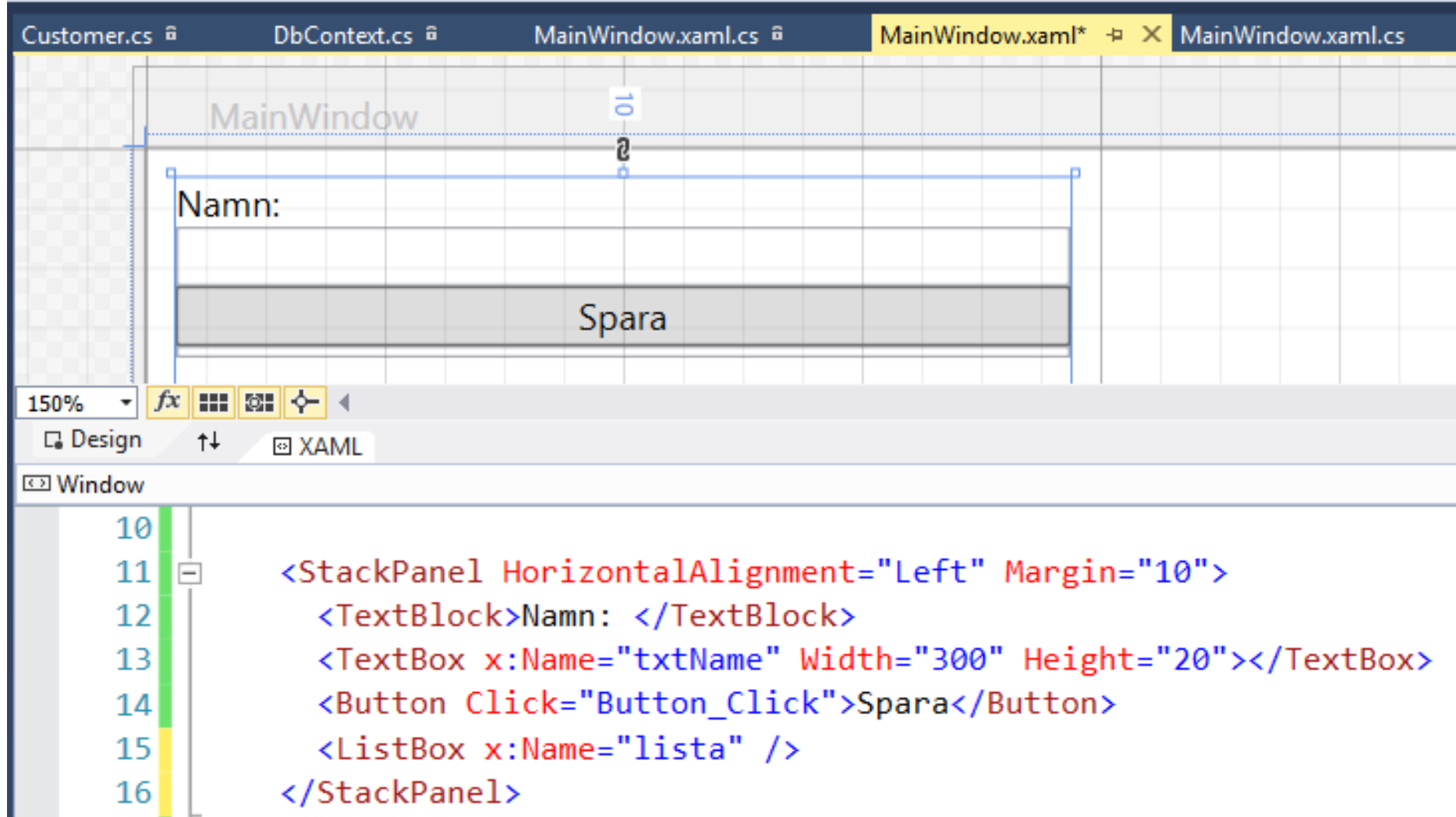
A callout box labeled "MyDatabase.cs" points to the file name in the editor's title bar.

STEG 6 – SKAPA EN INSTANS AV DIN DATABAS I CODE-BEHIND (MAINWINDOW.XAML.CS)

```
public partial class MainWindow : Window
{
    MyDatabase db = new MyDatabase();

    public MainWindow()
    {
```

STEG 7 – SKAPA GRÄNSSNITTET



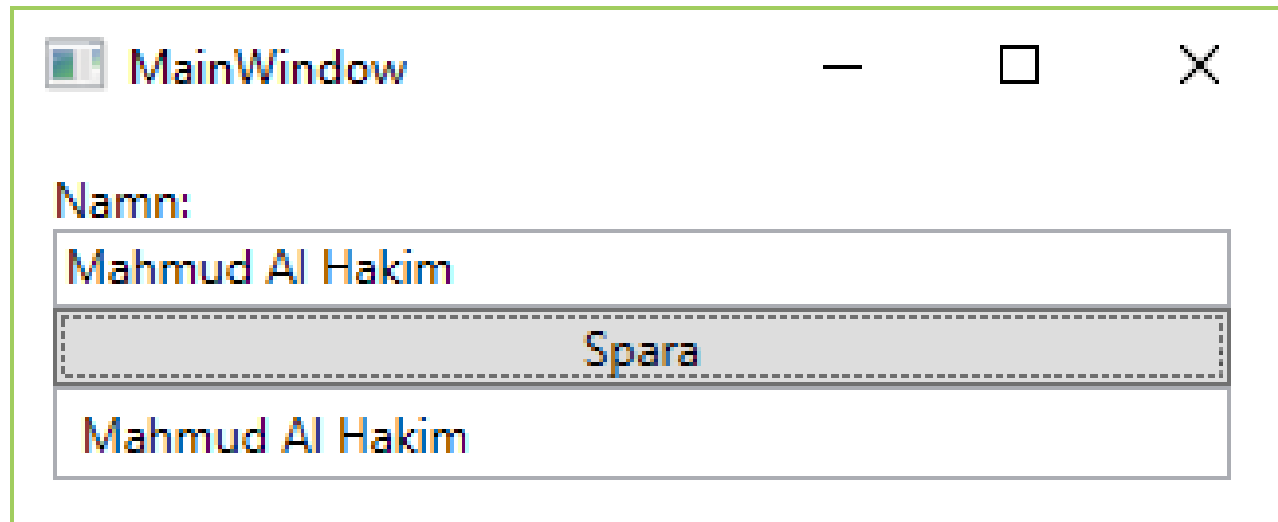
The screenshot displays the Visual Studio IDE with the 'MainWindow.xaml' file open in Design view. The design view shows a window titled 'MainWindow' with a grid background. Inside the window, there is a label 'Namn:' followed by a text input field and a 'Spara' button. The XAML view at the bottom shows the corresponding code for the design.

```
10  
11 <StackPanel HorizontalAlignment="Left" Margin="10">  
12     <TextBlock>Namn: </TextBlock>  
13     <TextBox x:Name="txtName" Width="300" Height="20"></TextBox>  
14     <Button Click="Button_Click">Spara</Button>  
15     <ListBox x:Name="lista" />  
16 </StackPanel>
```


STEG 8 – SPARA I DATABASEN

```
private void Button_Click(object sender, RoutedEventArgs e)
{
    var newEntity = new MyEntity();
    newEntity.Name = txtName.Text;
    db.MyEntities.Add(newEntity);
    db.SaveChanges();
    lista.ItemsSource = db.MyEntities.ToList();
}
```

STEG 9 – STARTA APPLIKATIONEN



```
public MainWindow()  
{  
    InitializeComponent();  
    lista.ItemsSource = db.MyEntities.ToList();  
}
```

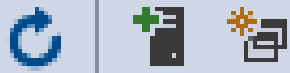
```
public override string ToString()  
{  
    return Name;  
}
```

Overrida toString
eller skapa en
DataTemplate

Tips!
Uppdatera listan vid
körning.

STEG 10 – HITTA DIN DATABAS

SQL Server Object Explorer



- SQL Server
 - (localdb)\MSSQLLocalDB (SQL Server 12.0.2569 - WEBACADEMY\Mahmud Al Hakim)
 - Databases
 - System Databases
 - WPFDATABAS.MyDatabase
 - Tables
 - System Tables
 - dbo.__MigrationHistory
 - dbo.MyEntities

dbo.MyEntities [Data] | dbo.MyEntities [Design]

Max Rows: 1000

	Id	Name
	22	Mahmud Al Hakim
*	NULL	NULL