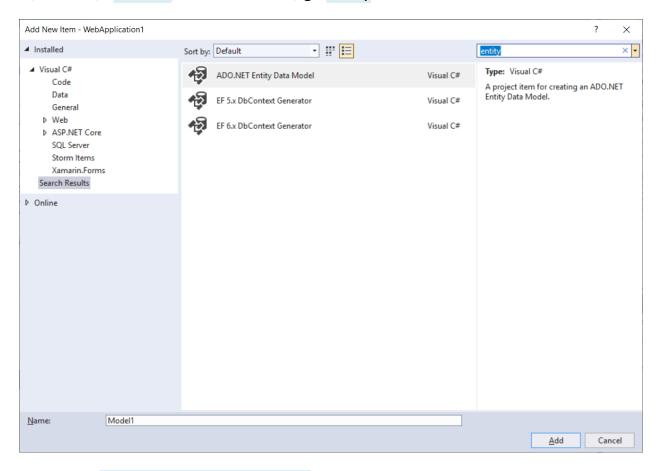
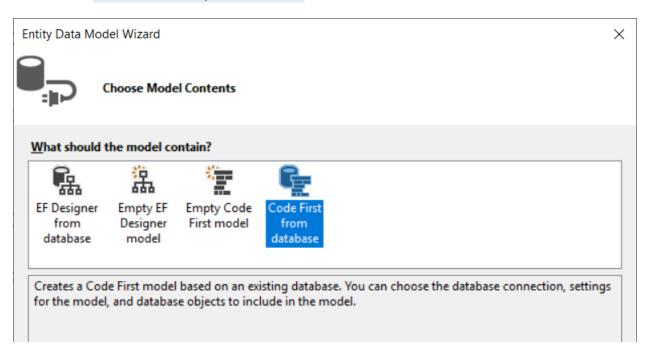
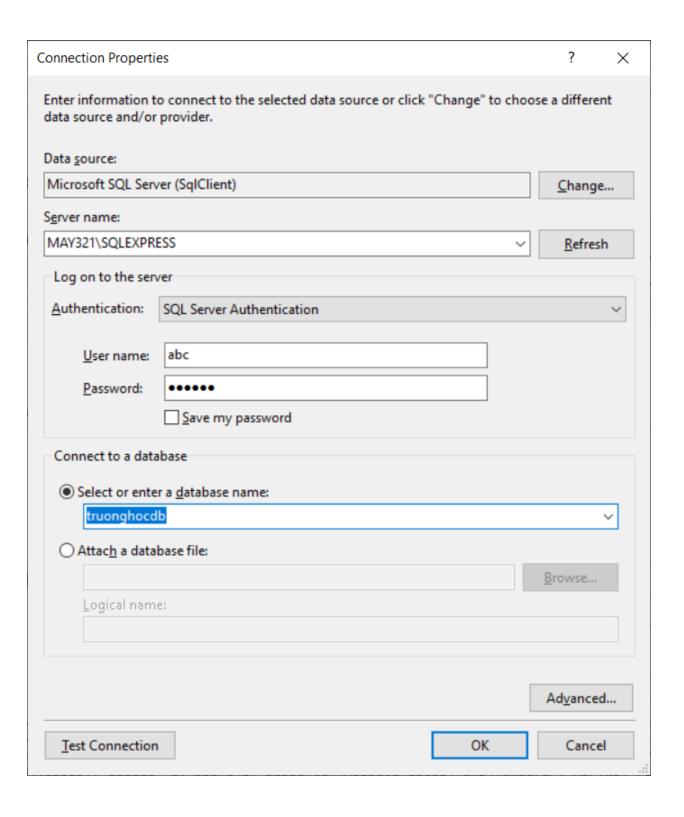
## Sử dụng Entity Framework cho WEB API:

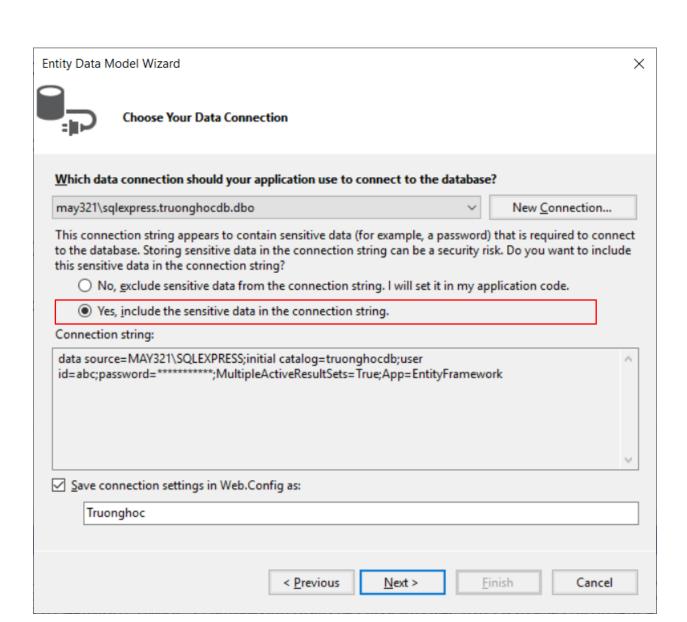
Tại thư mục Models, thêm class mới, gõ Entity trên thanh tìm kiếm:

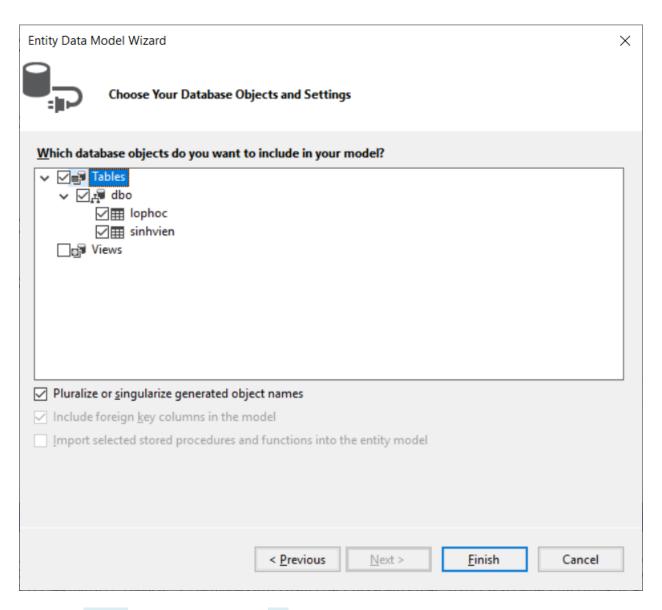


## Chon muc ADO.NET Entity Data Model

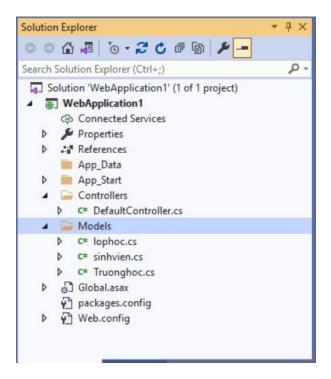








Khi click Finish, xuất hiện các file .cs ở cửa sổ.



Ấn Ctrl + Shift + B để dịch project

## Thêm code như hình:

```
public class DefaultController : ApiController
{
    [HttpGet]
    public string hello()
    {
        return "Hello from the first web api using database !";
    }

    TruongHoc db = new TruongHoc();

    //Danh sach sinh vien
    [HttpGet]
    [Route("api/default/listSV")]
    public List<sinhvien> listAll()
    {
        return db.sinhviens.ToList();
    }
}
```

Thêm code vào file Global.asax.cs

GlobalConfiguration.Configuration.Formatters.JsonFormatter.SerializerSettings
.ReferenceLoopHandling = Newtonsoft.Json.ReferenceLoopHandling.Ignore;
GlobalConfiguration.Configuration.Formatters.Remove(GlobalConfiguration.Configuration.Formatters.XmlFormatter);

## Test → ok

Mã viết trong Entity Framework có chút khác biệt với Linq to SQL.

Cụ thể mã sử dụng Entity Framework như sau:

```
public class DefaultController : ApiController
{
    [HttpGet]
    public string hello()
    {
        return "Hello from default web api !";
    }

    TruongHoc db = new TruongHoc();

    //Danh sach sinh vien
    [HttpGet]
    [Route("api/default/listSV")]
    public List<sinhvien> listAll()
```

```
{
    return db.sinhviens.ToList();
}
//Danh sach sinh vien theo lop
[HttpGet]
[Route("api/default/dstheolop")]
public List<sinhvien> DSSVTheoLop(int maLop)
    return db.sinhviens.Where(sv => sv.malop == maLop).ToList();
}
//Tim sinh vien
[HttpGet]
[Route("api/default/timsv")]
public sinhvien timSV(int maSV)
{
    return db.sinhviens.SingleOrDefault(sv=> sv.masv==maSV);
}
//Them sinh vien
[HttpPost]
[Route("api/default/themsv")]
public bool themSV([FromBody] sinhvien s)
{
    try
    {
        db.sinhviens.Add(s);
        db.SaveChanges();
        return true;
    }
    catch(Exception ex)
        Console.WriteLine("Loi o day: " + ex.Message);
        return false;
}
//Sua sinh vien
[HttpPut]
[Route("api/default/suasv")]
public bool suaSV([FromBody] sinhvien s)
{
    try
    {
        sinhvien old = db.sinhviens.SingleOrDefault(sv => sv.masv == s.masv);
        old.hoten = s.hoten;
        old.diachi = s.diachi;
        old.dienthoai = s.dienthoai;
        old.anh = s.anh;
        old.malop = s.malop;
        db.SaveChanges();
        return true;
```

```
catch (Exception ex)
        {
            Console.WriteLine("Loi o day: " + ex.Message);
            return false;
        }
    }
    //xoa sinh vien
    [HttpDelete]
    [Route("api/default/xoasv")]
    public bool xoaSV(int maSV)
        sinhvien sv = db.sinhviens.SingleOrDefault(x => x.masv == maSV);
        if (sv != null)
        {
            db.sinhviens.Remove(sv);
           db.SaveChanges();
            return true;
        }
        return false;
    }
    //Danh sach lop
    [HttpGet]
    [Route("api/default/dslop")]
    public List<lophoc> DSLop()
    {
        return db.lophocs.ToList();
    }
}
```