老杨这里学习代码：

1.

Any比Where().count()效率高的问题：

public class CityService : ICityService

{

public long AddNew(string cityName)

{

using (ZSZDbContext ctx = new ZSZDbContext())

{

BaseService<CityEntity> bs

= new BaseService<CityEntity>(ctx);

//判断是否存在任何一条数据满足 c.Name == cityName

//即存在这样一个名字的城市

//如果只是判断“是否存在”，那么用Any效率比Where().count()效率高

//Where(c => c.Name == cityName).Count()>0

bool exists =bs.GetAll().Any(c => c.Name == cityName);

if (exists)

{

throw new ArgumentException("城市已经存在");

}

CityEntity city = new CityEntity();

city.Name = cityName;

ctx.Cities.Add(city);

ctx.SaveChanges();

return city.Id;

}

}

2.

AsNoTracking()方法的应用：

public CityDTO[] GetAll()

{

using (ZSZDbContext ctx = new ZSZDbContext())

{

BaseService<CityEntity> bs = new BaseService<CityEntity>(ctx);

return bs.GetAll().AsNoTracking()

.ToList().Select(c => ToDTO(c)).ToArray();

}

}

3.

SingleOrDefault(u=>u.PhoneNum==phoneNum)

我是用where+FirstOrDeafault

public bool CheckLogin(string phoneNum, string password)

{

using (ZSZDbContext ctx = new ZSZDbContext())

{

BaseService<AdminUserEntity> bs = new BaseService<AdminUserEntity>(ctx);

//除了错不可怕，最怕的是有错但是表面“风平浪静”

var user = bs.GetAll().SingleOrDefault(u=>u.PhoneNum==phoneNum);

if (user == null)

{

return false;

}

string dbHash = user.PasswordHash;

string userHash = CommonHelper.CalcMD5(user.PasswordSalt+password);

//比较数据库中的PasswordHash是否和MD5(salt+用户输入密码)一直

return userHash == dbHash;

}

}

4.

Include()和ToDTO()方法。

private AdminUserDTO ToDTO(AdminUserEntity user)

{

AdminUserDTO dto = new AdminUserDTO();

dto.CityId = user.CityId;

if(user.City!=null)

{

dto.CityName = user.City.Name;//需要Include提升性能

//如鹏总部（北京）、如鹏网上海分公司、如鹏广州分公司、如鹏北京分公司

}

else

{

dto.CityName = "总部";

}

dto.CreateDateTime = user.CreateDateTime;

dto.Email = user.Email;

dto.Id = user.Id;

dto.LastLoginErrorDateTime = user.LastLoginErrorDateTime;

dto.LoginErrorTimes = user.LoginErrorTimes;

dto.Name = user.Name;

dto.PhoneNum = user.PhoneNum;

return dto;

}

public AdminUserDTO[] GetAll()

{

using (ZSZDbContext ctx = new ZSZDbContext())

{

//using System.Data.Entity;才能在IQueryable中用Include、AsNoTracking

BaseService<AdminUserEntity> bs

= new BaseService<AdminUserEntity>(ctx);

return bs.GetAll().Include(u=>u.City)

.AsNoTracking().ToList().Select(u => ToDTO(u)).ToArray();

}

}

public AdminUserDTO GetById(long id)

{

using (ZSZDbContext ctx = new ZSZDbContext())

{

BaseService<AdminUserEntity> bs

= new BaseService<AdminUserEntity>(ctx);

//这里不能用bs.GetById(id);因为无法Include、AsNoTracking()等

var user = bs.GetAll().Include(u => u.City)

.AsNoTracking().SingleOrDefault(u=>u.Id==id);

//.AsNoTracking().Where(u=>u.Id==id).SingleOrDefault();

//var user = bs.GetById(id); 用include就不能用GetById

if (user==null)

{

return null;

}

return ToDTO(user);

}

}

5.

6.

7.

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12.

13.