



# Adding AddPhone and DeletePhone Methods

We are adding two more methods to IPersonAppService interface as shown below:

```
Task DeletePhone(EntityDto<long> input);  
Task<PhoneInPersonListDto> AddPhone(AddPhoneInput input);
```

We could create a new, separated IPhoneAppService. It's your choice. But, we can consider Person as an aggregate and add phone related methods here. AddPhoneInput DTO is shown below:

```
public class AddPhoneInput  
{  
    [Range(1, int.MaxValue)]  
    public int PersonId { get; set; }  
  
    [Required]  
    public PhoneType Type { get; set; }  
  
    [Required]  
    [MaxLength(PhoneConsts.MaxNumberLength)]  
    public string Number { get; set; }  
}
```

We used PhoneConsts.MaxNumberLength for Number field. You should create this consts in **.Core.Shared**.

```
public class PhoneConsts  
{  
    public const int MaxNumberLength = 16;  
}
```





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```
public async Task DeletePhone(EntityDto<long> input)
{
    await _phoneRepository.DeleteAsync(input.Id);
}

[AbpAuthorize(AppPermissions.Pages_Tenant_PhoneBook_EditPerson)]
public async Task<PhoneInPersonListDto> AddPhone(AddPhoneInput input)
{
    var person = _personRepository.Get(input.PersonId);
    await _personRepository.EnsureCollectionLoadedAsync(person, p => p.Phones);

    var phone = ObjectMapper.Map<Phone>(input);
    person.Phones.Add(phone);

    //Get auto increment Id of the new Phone by saving to database
    await CurrentUnitOfWork.SaveChangesAsync();

    return ObjectMapper.Map<PhoneInPersonListDto>(phone);
}
```

Feedback



Then we add configuration for AutoMapper into CustomDtoMapper.cs like below:

```
configuration.CreateMap<AddPhoneInput, Phone>();
```

(Note: We injected **IRepository<Phone, long>** in the constructor and set to `_phoneRepository` field, as similar to `_personRepository`)

**DeletePhone** method is simple. It only deletes phone with given id.

**AddPhone** method **gets** the person from database and add new phone to `person.Phones` collection. Then is **save changes**. Saving changes causes inserting new added phone to database and get its **Id**. Because, we are returning a DTO that contains newly created phone informations including Id. So, it should be assigned before mapping in the last line. (Notice that; normally it's not needed to call `CurrentUnitOfWork.SaveChangesAsync`. It's automatically called at the end of the method. We called it in the method since we need to save entity and get its Id immediately. See [UOW document](#) for more.)

There may be different approaches for AddPhone method. You can directly work with a **phone repository** to insert new phone. They all have different pros and cons. It's your choice.



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- [Edit Mode for Phone Numbers](#)

