

Asp.Net Core – True Ultimate Guide

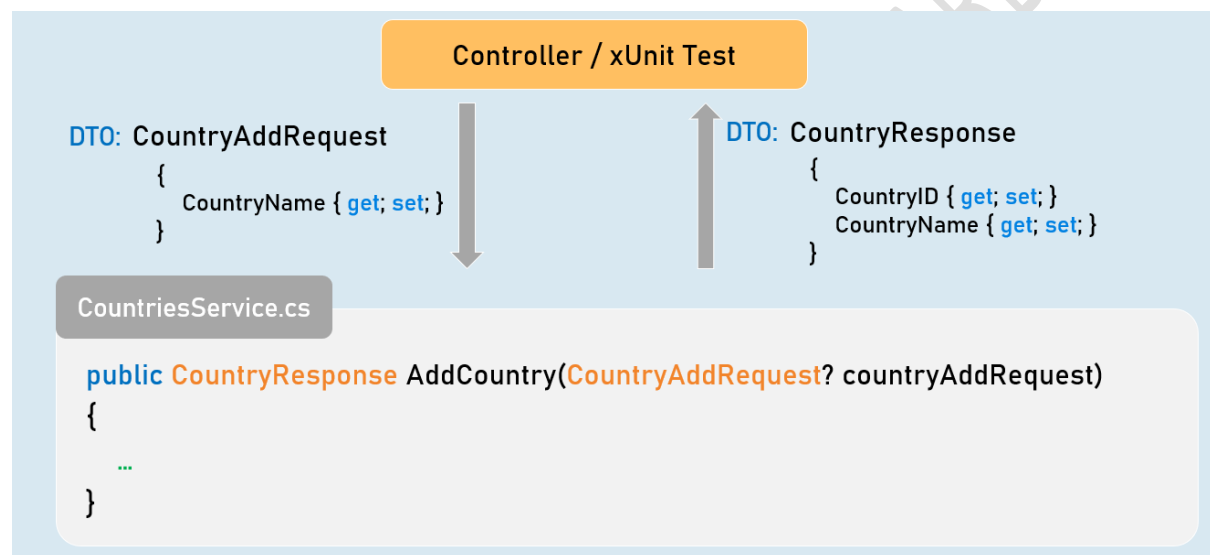
Section 15 – xUnit – Cheat Sheet

Introduction to xUnit

xUnit is the free, open source unit testing tool for .NET Framework.

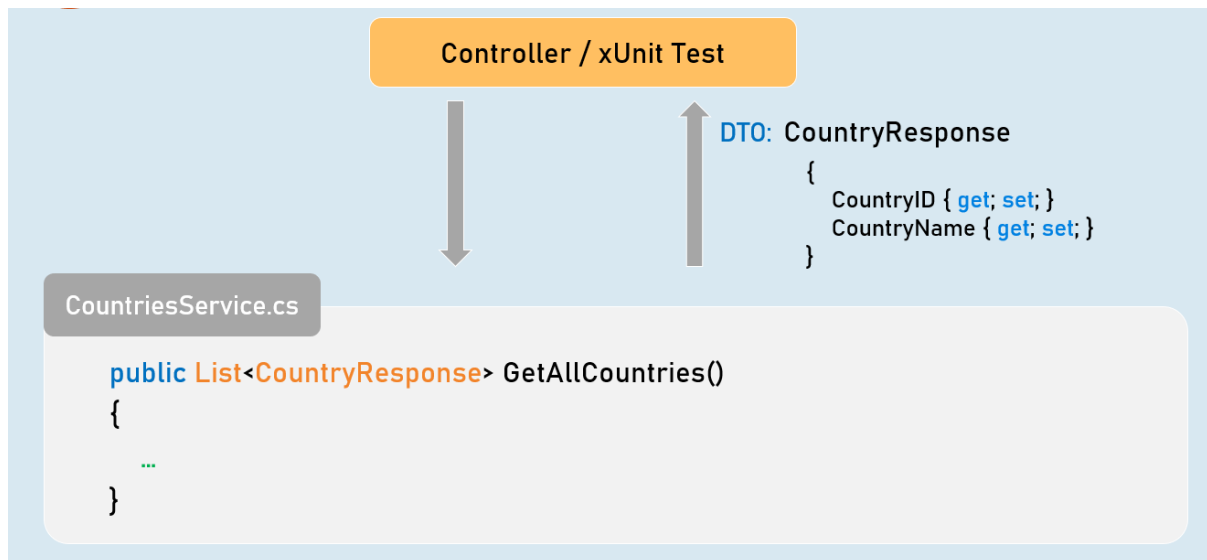
- Easy and extensible.
- Best to use with a mocking framework called "Moq".

Add Country - xUnit Test



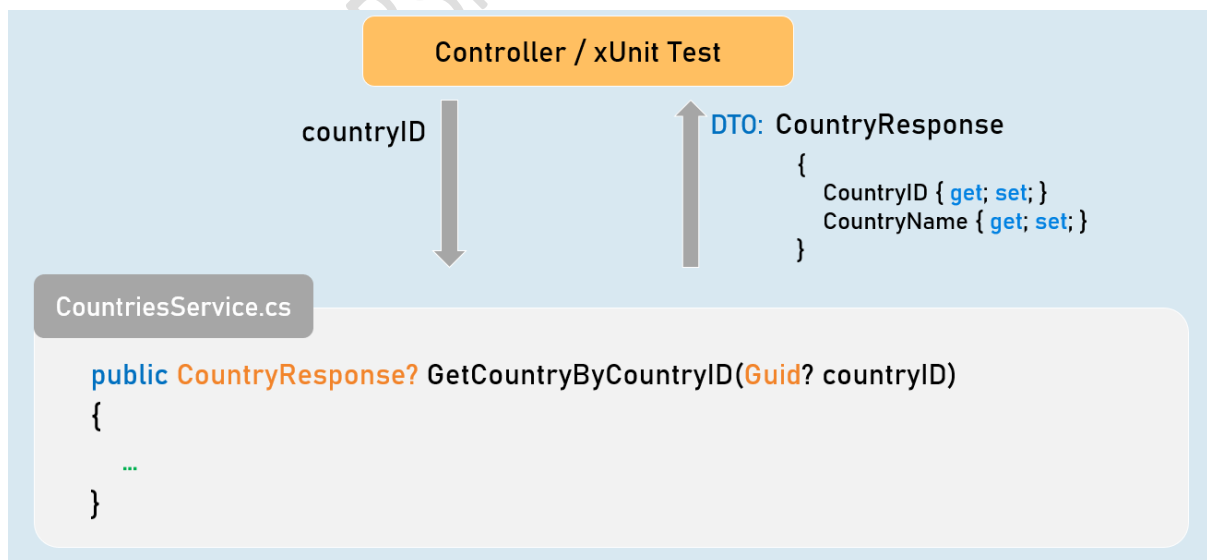
```
public CountryResponse AddCountry(CountryAddRequest? countryAddRequest)
{
    //Check if "countryAddRequest" is not null.
    //Validate all properties of "countryAddRequest"
    //Convert "countryAddRequest" from "CountryAddRequest" type to "Country".
    //Generate a new CountryID
    //Then add it into List<Country>
    //Return CountryResponse object with generated CountryID
}
```

Get All Countries - xUnit Test



```
public List<CountryResponse> GetAllCountries()
{
    //Convert all countries from "Country" type to "CountryResponse" type.
    //Return all CountryResponse objects
}
```

Get Country by Country ID - xUnit Test

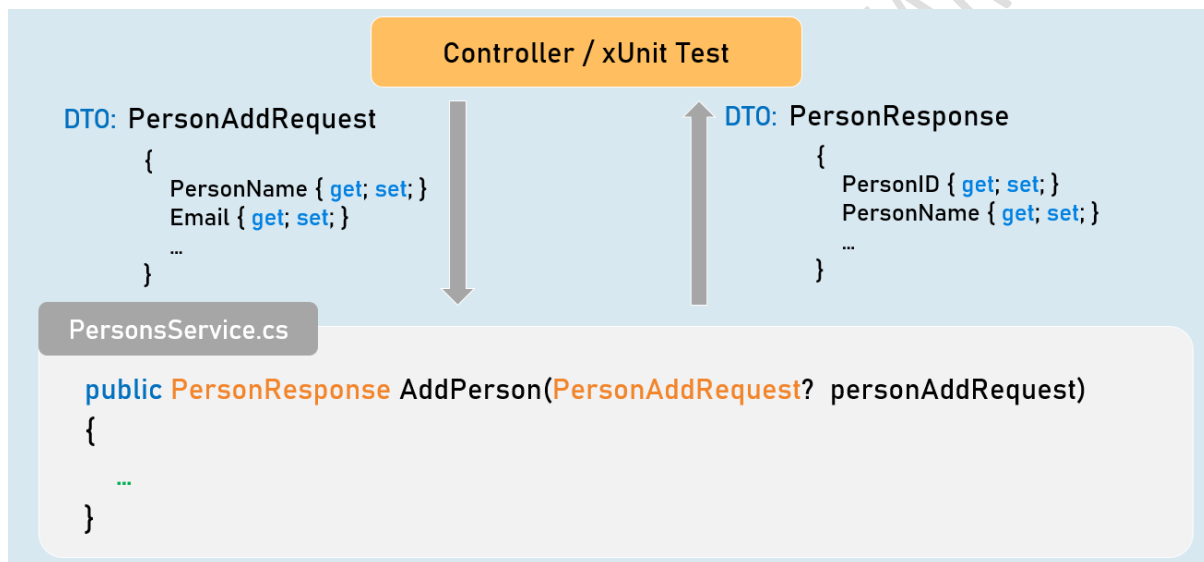


```

public CountryResponse? GetCountryByCountryID(Guid? countryID)
{
    //Check if "countryID" is not null.
    //Get matching country from List<Country> based countryID.
    //Convert matching country object from "Country" to "CountryResponse" type.
    //Return CountryResponse object
}

```

Add Person - xUnit Test

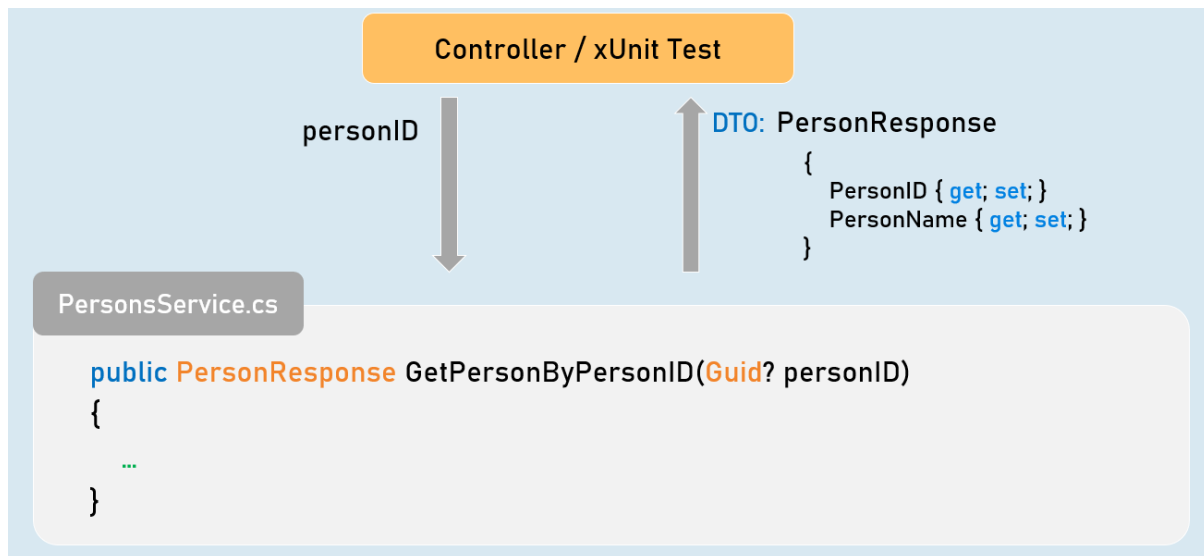


```

public PersonResponse AddPerson(PersonAddRequest? personAddRequest)
{
    //Check if "personAddRequest" is not null.
    //Validate all properties of "personAddRequest".
    //Convert "personAddRequest" from "PersonAddRequest" type to "Person".
    //Generate a new PersonID.
    //Then add it into List<Person>.
    //Return PersonResponse object with generated PersonID.
}

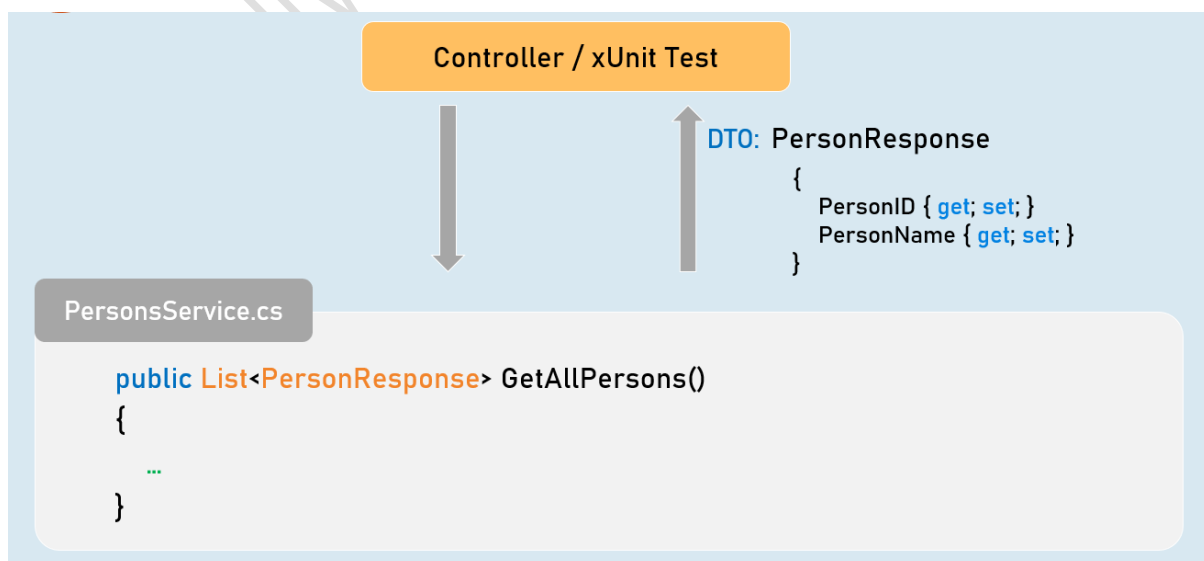
```

Get Person by Person ID - xUnit Test



```
public PersonResponse GetPersonByPersonID(Guid? personID)
{
    //Check if "personID" is not null.
    //Get matching person from List<Person> based personID.
    //Convert matching person object from "Person" to "PersonResponse" type.
    //Return PersonResponse object
}
```

Get All Persons - xUnit Test

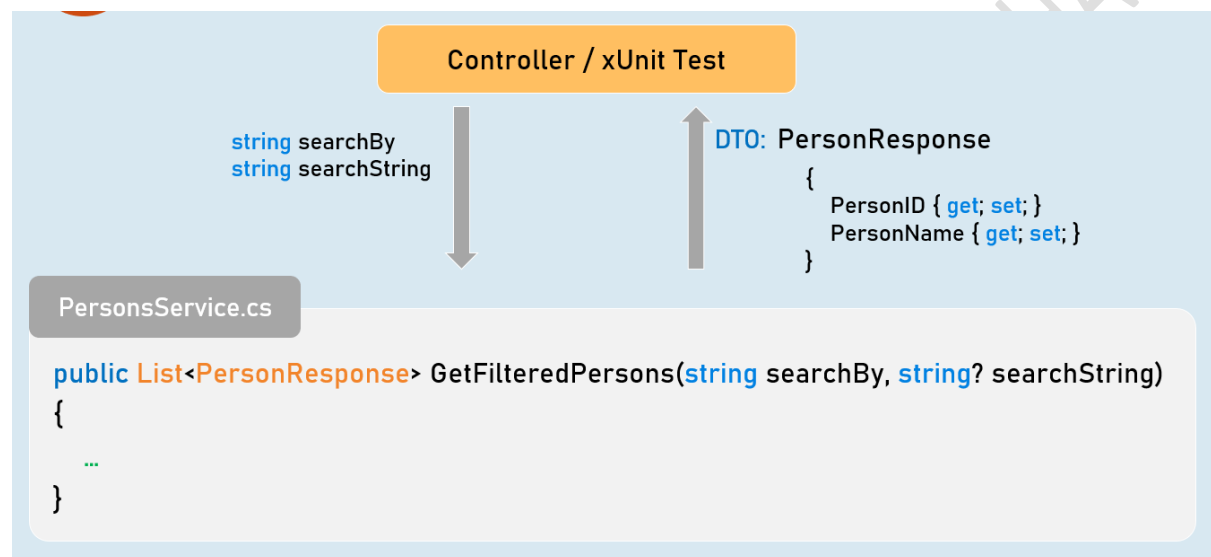


```

public List<PersonResponse> GetAllPersons()
{
    //Convert all persons from "Person" type to "PersonResponse" type.
    //Return all PersonResponse objects
}

```

Get Filtered Persons - xUnit Test

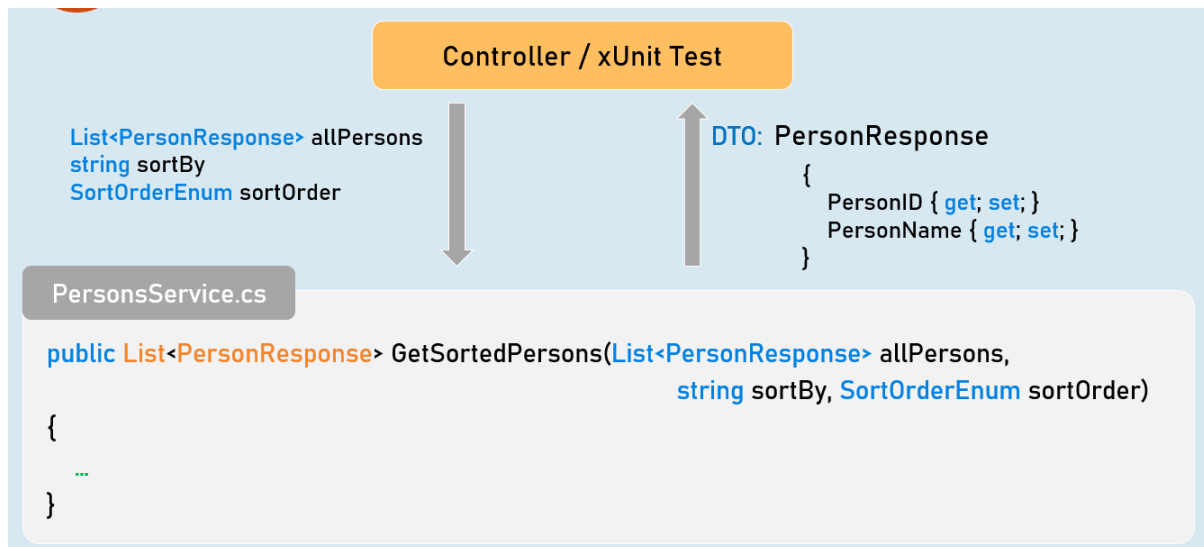


```

public List<PersonResponse> GetFilteredPersons(string searchBy, string? searchString)
{
    //Check if "searchBy" is not null.
    //Get matching persons from List<Person> based on given searchBy and searchString.
    //Convert the matching persons from "Person" type to "PersonResponse" type.
    //Return all matching PersonResponse objects
}

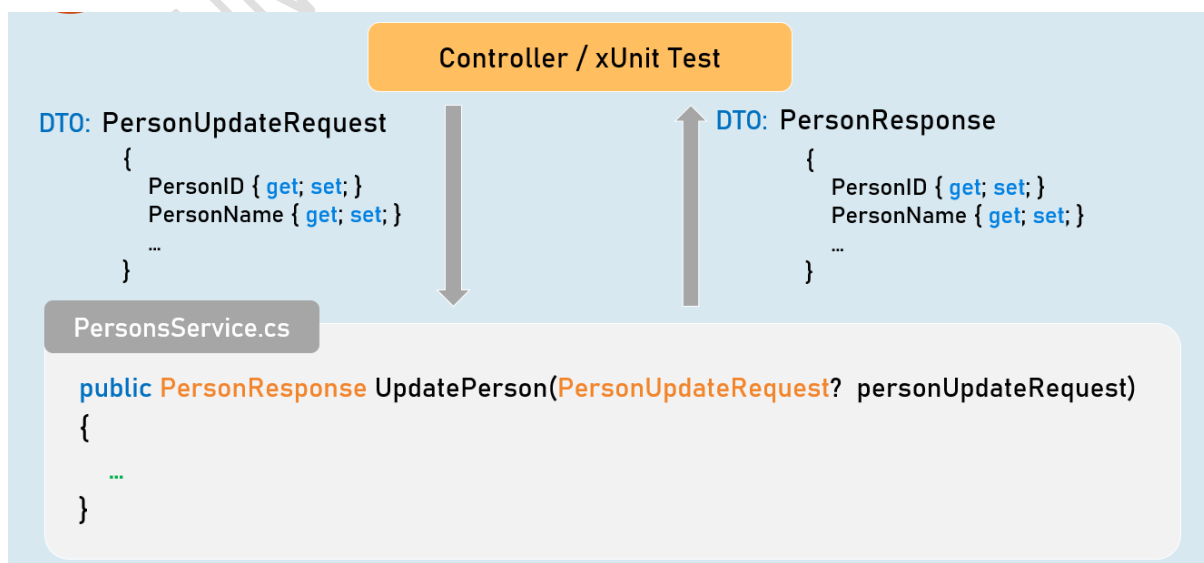
```

Get Sorted Persons - xUnit Test



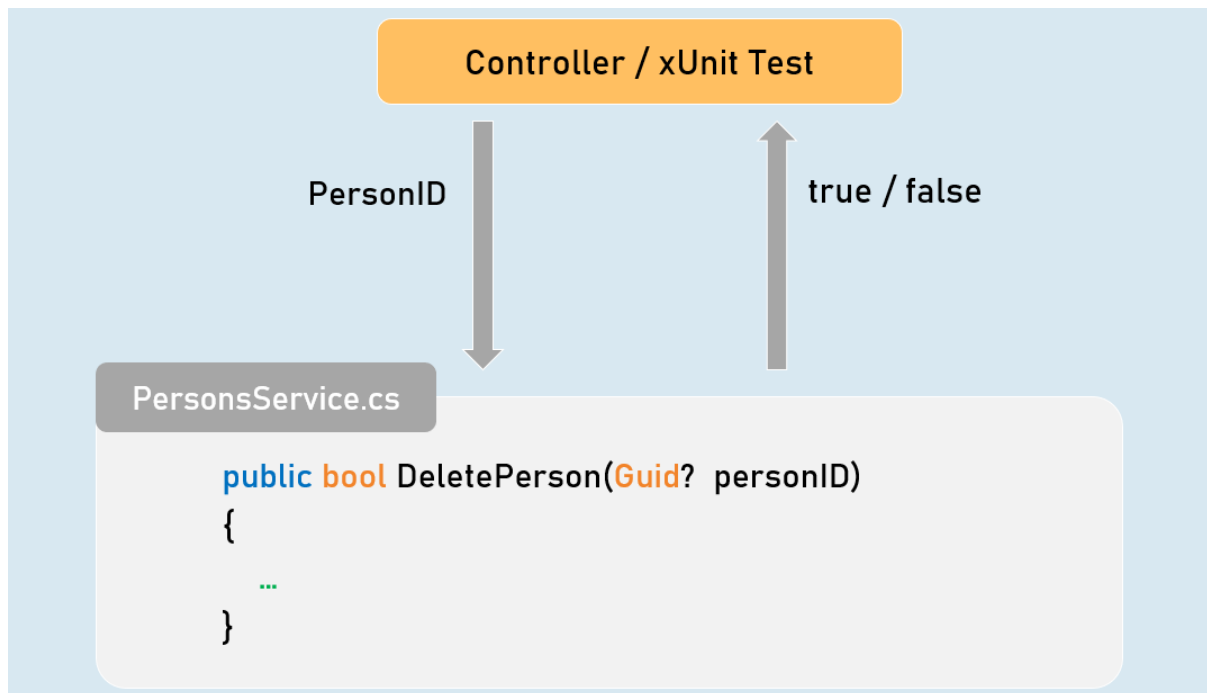
```
public List<PersonResponse> GetSortedPersons(List<PersonResponse> allPersons,
                                             string sortBy, SortOrderEnum sortOrder)
{
    //Check if "sortBy" is not null.
    //Get sorted persons from "allPersons" based on given "sortBy" and "sortOrder".
    //Convert the sorted persons from "Person" type to "PersonResponse" type.
    //Return all sorted PersonResponse objects
}
```

Update Person - xUnit Test



```
public PersonResponse UpdatePerson(PersonUpdateRequest? personUpdateRequest)
{
    //Check if "personUpdateRequest" is not null.
    //Validate all properties of "personUpdateRequest"
    //Get the matching "Person" object from List<Person> based on PersonID.
    //Check if matching "Person" object is not null
    //Update all details from "PersonUpdateRequest" object to "Person" object
    //Convert the person object from "Person" to "PersonResponse" type
    //Return PersonResponse object with updated details
}
```

Delete Person - xUnit Test



```
public bool DeletePerson(Guid? personID)
{
    //Check if "personID" is not null.
    //Get the matching "Person" object from List<Person> based on PersonID.
    //Check if matching "Person" object is not null
    //Delete the matching "Person" object from List<Person>
    //Return Boolean value indicating whether person object was deleted or not
}
```