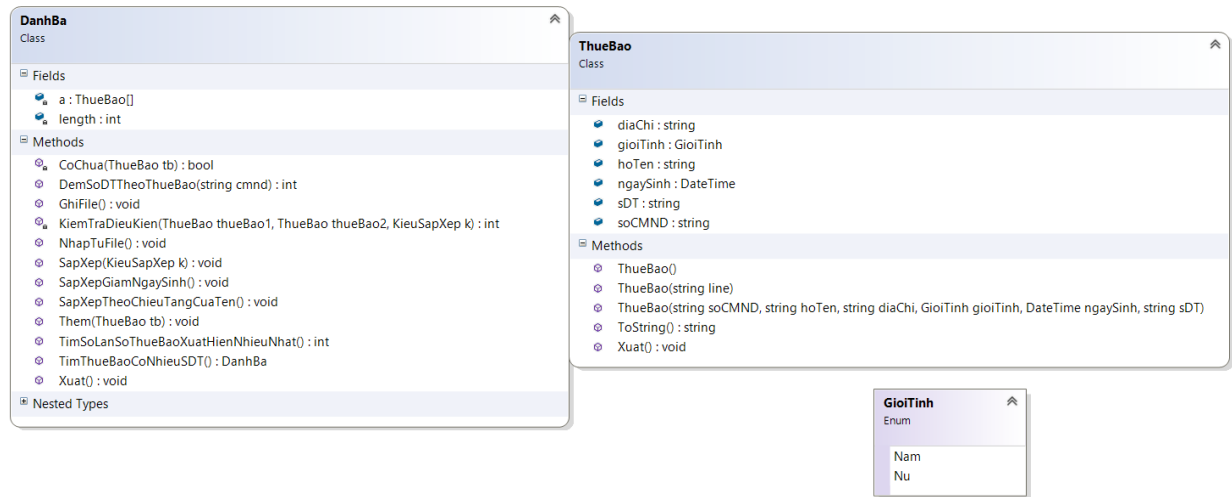Bài Quản lý danh bạ

Cho lược đồ lớp như sau:

Bổ sung Code lớp ThueBao

```csharp
enum GioiTinh
{
    Nam,
    Nu
}
11 references | 0 changes | 0 authors, 0 changes
class ThueBao
{
    public string soCMND;
    public string hoTen;
    public string diaChi;
    public GioiTinh gioiTinh;
    public DateTime ngaySinh;
    public string sDT;
    0 references | 0 changes | 0 authors, 0 changes
    public ThueBao()
    {

    }
    0 references | 0 changes | 0 authors, 0 changes
    public ThueBao(string soCMND,string hoTen,string diaChi,GioiTinh gioiTinh,DateTime ngaySinh, string sDT)
    {
        this.soCMND = soCMND;
        this.hoTen = hoTen;
        this.diaChi = diaChi;
        this.gioiTinh = gioiTinh;
        this.ngaySinh = ngaySinh;
        this.sDT = sDT;
    }
```

```csharp
public ThueBao(string line)
{
    string[] s = line.Split(',');

    this.soCMND = s[0].Trim();
    this.hoTen = s[1].Trim();
    this.diaChi = s[2].Trim();
    this.gioiTinh = s[3].Trim()=="Nam"?GioiTinh.Nam:GioiTinh.Nu;
    this.ngaySinh = DateTime.Parse(s[4]);
    this.sDT = s[5];
}
// 0 references | 0 changes | 0 authors, 0 changes
public void Xuat()
{
    Console.WriteLine("{0} {1} {2} {3} {4} {5}", soCMND, hoTen, diaChi, gioiTinh, ngaySinh, sDT);
}



// 0 references | 0 changes | 0 authors, 0 changes
public override string ToString()
{
    string s = "{0} {1} {2} {3} {4} {5} \r\n";
    return string.Format(s, soCMND.PadRight(7), hoTen.PadRight(15),
        diaChi.PadRight(40), ngaySinh.ToShortDateString().PadRight(11),
        sDT.PadRight(10), gioiTinh);
}
```

Bổ sung Code lớp DanhBa

```csharp
class DanhBa
{
    ThueBao[] a = new ThueBao[100];
    int length = 0;
    2 references | 0 changes | 0 authors, 0 changes
    public void Them(ThueBao tb)
    {
        a[length++] = tb;
    }
    1 reference | 0 changes | 0 authors, 0 changes
    public void NhapTuFile()
    {
        string path = "D:\\data1.txt";
        StreamReader sr = new StreamReader(path);
        string str = "";
        while ((str = sr.ReadLine()) != null)
        {
            //Console.WriteLine(str);
            Them(new ThueBao(str));
        }
    }
}
```

```csharp
public override string ToString()
{
    string s = "";
    for (int i = 0; i < length; i++)
    {
        int k = i + 1;
        s += k.ToString() + ")  " + a[i];
    }
    return s;
}
```

```csharp
public int DemSoDTTheoThueBao(string cmnd)
{
    int dem = 0;
    for (int i = 0; i < length; i++)
    {
        if (a[i].soCMND == cmnd)
            dem++;
    }
    return dem;
}
```

```csharp
public int TimSoLanSoThueBaoXuatHienNhieuNhat()
{
    int max = -1;
    for (int i = 0; i < length; i++)
    {
        int dem = DemSoDTTheoThueBao(a[i].soCMND);
        if (dem > max)
            max = dem;
    }
    return max;
}

1 reference | 0 changes | 0 authors, 0 changes
bool CoChua(ThueBao tb)
{
    for (int i = 0; i < length; i++)
    {
        if (a[i].soCMND == tb.soCMND)
            return true;
    }
    return false;
}


0 references | 0 changes | 0 authors, 0 changes
public DanhBa TimThueBaoCoNhieuSDT()
{
    DanhBa kq = new DanhBa();
    int max = TimSoLanSoThueBaoXuatHienNhieuNhat();
    for (int i = 0; i < length; i++)
    {
        if (DemSoDTTheoThueBao(a[i].soCMND) == max && !kq.CoChua(a[i]))
            kq.Them(a[i]);
    }
    return kq;
}
```

```csharp
public void SapXepTheoChieuTangCuaTen()
{
    SapXep(KieuSapXep.TangTheoHoTen);
}
// 1 reference | 0 changes | 0 authors, 0 changes
public void SapXepGiamNgaySinh()
{
    SapXep(KieuSapXep.GiamTheoNgaySinh);
}
// 8 references | 0 changes | 0 authors, 0 changes
public enum KieuSapXep
{
    TangTheoHoTen,
    GiamTheoHoTen,
    TangTheoNgaySinh,
    GiamTheoNgaySinh
}
// 2 references | 0 changes | 0 authors, 0 changes
public void SapXep(KieuSapXep k )
{
    for (int i = 0; i < length - 1; i++)
    {
        for (int j = i + 1; j < length; j++)
        {
            if (KiemTraDieuKien(a[i], a[j], k)==1)
            {
                ThueBao tam = a[i];
                a[i] = a[j];
                a[j] = tam;
            }
        }
    }
}
```

Viết Menu để gọi và kiểm tra các chức năng.