Laborator03

Sa se realizeze o aplicatie pentru administrare de contacte, cu posibilitate de - adaugare, stergere, modificare, cautare contact.

Un contact are urmatoarea structura:

```csharp
class ContactModel
{
    public int Id {get;set;}
    public string Name {get;set;}
    public string Email {get;set;}
    public string Phone {get;set;}
    public string Address {get;set;}
    public string Country {get;set;}

    public override bool Equals(object obj)
    {
        if(obj == null)
        {
            return false;
        }

        if(!(obj is ContactModel))
        {
            return false;
        }

        ContactModel c = obj as ContactModel;

        return Id == c.Id && Name == c.Name && Email == c.Email && Phone ==
c.Phone;
    }
}
```

Se vor realiza 2 proiecte:

"Contact.Models" de tip library (.dll)
"Contact.UI" de tip "Windows forms"

In "Contact.Models" se vor implementa 2 clase: ContactModel si ContactList

```csharp
public class ContactList
{
    public List<ContactModel> Contacts {get;set;}

    public ContactList()
    {
        Contacts = new List<ContactModel>();
    }


    public void Add(ContactModel contact)
    {
```

```
            Contacts.Add(contact);
        }

        public void Remove(ContactModel contact)
        {
            Contacts.Remove(contact);
        }

        public bool SearchByName(string name)
        {
            foreach(var contact in Contacts)
            {
                if(contact.Name == name)
                {
                    return true;
                }

            }

            return false;
        }

        public bool SearchByEmail(string email)
        {

        }

        public void SaveOnDisk()
        {
            //salvati toate contactele intr-un fisier pe disk!
        }

        public void LoadFromDisk()
        {
            //colectia "Contacts" va fi incarcata cu contactele salvate pe disk
            //prin metoda anterioara
        }
}
```

In al doilea proiect va fi partea de interfata.

- o fereastra care permite adaugare/modificare/stergere/cautare(email sau nume) de contacte si vizualizarea unei liste de contacte (un obiect de tip ContactList).