INFO-4844: Homework 3

Fairleigh Dickinson University Vancouver
Fall 2020

Assigned: November 30, 2020
Due: Beginning of class, December 9, 2020

Goal

This assignment has 100 points. Do this assignment individually. Store your code in a private, individual BitBucket repository. On Webcampus, submit only the link to the repository.

Problem Statement

You want to store contact information of a large number of people, including your family members, friends, colleagues, etc. in a way that makes it easy to go through the list of contacts, and to search by first-name last-name combinations. Suppose you have decided to write your own ASP.Net Core console application to accomplish this. First of all, you note that every entry in your contact list represents a person, and must have the following information: first-name, last-name, address, and phone number. However, you also recognize that it would be convenient to categorize the contacts into family, friends, and colleagues (including former colleagues). For each category, you stipulate that a contact must have the following *additional* information (i.e., over and above what's listed above):

- **Family:** Date of birth, so that you don't forget to wish them Happy Birthday, and an additional emergency phone number.

- **Friend:** Personal email address.

- **Colleague:** Company (employer) and work email address.

To implement this, follow these steps:

1. Download the attached zipped folder INFO-4844-Homework3-Source-Files.zip. Extract this folder; this should give you the following files: Contact.cs, ListOfContacts.cs, FamilyMember.cs, Friend.cs, Colleague.cs, and Program.cs.

2. Create a ASP.Net Core project and put these .cs files in the project.

3. Read through the .cs files. Compile and run.

4. Change the code so that first-name and last-name can never be null or the empty string. If the user tries to set first-name and last-name to null or empty, then set these fields to some default string, such as "default" or "unknown".

5. Add code to Friend.cs, FamilyMember.cs, and Colleague.cs to **set** and **display** the additional information (over and above what Contact.cs already does) described above. *Whenever a contact is displayed that's a friend or family member or colleague, the entire information must be displayed.*

6. Inside Program.cs, find where a friend, a family member, and a colleague are added to the list, and set this additional information there.

NOTE: DON'T ADD ANY DATA ABOUT ACTUAL PERSONS; USE ONLY MOCK DATA FOR TESTING.

How to Submit

Create a private, individual BitBucket repository with this code. On Webcampus, submit a link to this repository.