**IT 5413 Software Design & Development**

**Spring 2020**

**Term Project**

**Project:** Design and implement a personal contact manager application that stores and manipulates your contacts

**Requirements specification:**

The system to be designed and implemented is a contact manager application that handles contacts data, similar in functionality to

contacts apps found on smartphones.

The system should be able to record and manipulate (**add**, **search**, **update**, and **delete**) data of contacts. The data need to be stored in a text file.

The following information and constraints should be captured in the

application:

1. Each contact has first and last name. For simplicity, let’s assume the first and last name combinations are unique among all contacts
2. Each contact has one phone number (again, for simplicity)
3. Each contact has one email address (again, for simplicity)
4. The system should be able to support manipulation of contacts and their phone numbers:

* **Add** (e.g. add/create contact first name “John”, last name “David”, phone 1234567890, email “johndavid@email.com).
* **Search** contacts by first name, last name, phone number, and email
* **Update**: change the first name, last name, phone number, and email, of a given contact
* **Delete**: remove a contact and all associated data including first name, last name, phone number, and email.

1. You don’t have to develop an application with graphic interface; building a simple console application is enough.