

**CS 232**  
**Project 3**  
**Sending Email**

In this project, you must implement an application that allows the user to select contacts, compose a message, and send an email to those contacts. The interface must contain fields for the “from” address, the “to” address(es), and the subject, along with a scrollable text area for the message. The label for the “to” field should actually be a button that, when clicked, displays a list of contacts that can be selected by the user. The contacts should be loaded from a text file called “contacts.txt”. This contacts interface should provide a way to add, remove, and modify contacts, as well as selecting them for inclusion in the email. Contact entries contain only first name, last name, and email address.

I will provide a class that will allow you to actually send the email when the user clicks the “Send” button, as long as you have a valid Gmail account that can be used to route the emails. The specifics of this class will be detailed in class.

I would consider the following as possible classes to create in solving this problem:

Contact – represents a simple data structure containing one contact

ContactList – represents a collection of Contact objects; should load the list from the file; should allow adding, removing, modifying, and writing list to the “contacts.txt” file

ContactListUI – represents the graphical interface for the ContactList class

EmailSender – the full program containing the text fields and areas, as well as the contact list window