University of Puerto Rico

Department of Electrical and Computer Engineering

ICOM 4015 Laboratory: Advanced Programming

**Laboratory: Graphical User Interphases (GUI’s)**

Completed by:

ID:

Date:

**Introduction**

In this laboratory we will practice GUIs. We are going to create the following GUI for a simple online registration form to create an account in a website:

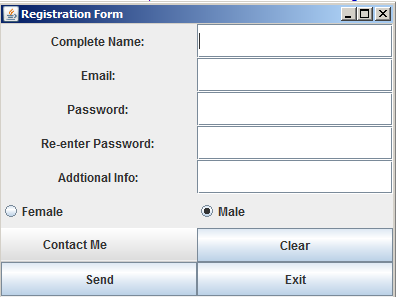


Figure 1 - GUI for a simple online registration form

It asks you for your name, email address, secret password to access your account, confirms the correctness of your password, asks for additional information, and your gender. You can choose among different ways that the website can contact you through a drop down MenuBar labeled “Contact Me”. The “Clear” button erases the information that you have entered. By clicking on the “Send” button a DialogBox - which is created by using JOptionPane -  will appear to confirm that your form has been submitted. Finally the “Exit” button closes the window and terminates the application. To implement the functionality of these buttons we will use the ButtonHandler class.

In this GUI several components classes will be used:

* JLabel
* JTextField
* JButton
* ButtonHandler
* JRadioBox
* JMenuBar
* JOptionPane

Make sure that you familiarize yourself with the Java API documentation for these classes before you come to the lab.

**Question 1:**  
In one line describe the purpose of each GUI component and identify an example among the components in Figure 1. Write your answers below:  
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////  
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

**Question 2:**  
Search in the Java API documentation and list five more GUI components available in Java. Write the names of the classes and a short description or their purpose in the area below:  
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////  
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

**Question 3:**

We provide you a partial implementation of the registration form from Figure 1 in the form of class ContactMeGui. Your job in the lab will consist of completing the implementation to make the form look as in Figure 1 and behave as specified below.

Copy the ContactMeGuiPartial.jave file into a new Eclipse project. Rename the class to ContactMeGui and run it to see what features are missing. You will complete the implementation in the lab following several steps.