CS2310: Exercise 4 Anatoli Shein aus4@pitt.edu

I have set up the SIS system to work in the eclipse environment.

First I start the server:

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📮 Package Explorer 🛭 📅 🗖 🔝 SISServer.java 🖾 🔝 SISComponentBase.java 🔝 CreateHospitalFinder.java
                                                                                                                                                            □ □ □ Console 🛭 💁 Breakpoints
                                                                                                                                                                      SISServer [Java Application] C:\Program Files\Java\jre1.8.0_20\bin\javaw.exe (Nov
                 /* Find socket by comp name */
public static String FindCompCSM(Socket in) {
   for (int i = 0; i < csm.size(); i++)
      if (csm.get(i).compsocket.equals(in))
      return csm.get(i).compname;
   return null;
}</pre>
209
210
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215 = 216
217

→ March JRE System Library [JavaSE-
                                                       /* Turn on comps by comp name */
public static void TurnOn(String in) {

    KeyValueList.java
    MsgEncoder.java

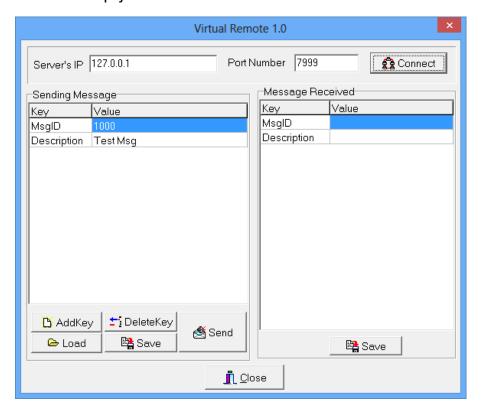
                                                         ⊿ 🎏 src
                                                                        (csm.get(i).compname.equals(in) && csm.get(i).active == false)
try {
    printOut = new PrintStream(csm.get(i).compsocket.getOutpu
    printOut.println("MsgID$$$24");
    csm.get(i).active = true;
    cath( IDOException e) {
        System.out.println("Component " + csm.get(i).compname + ")

    SISComponentBase.j
    SISServer.java

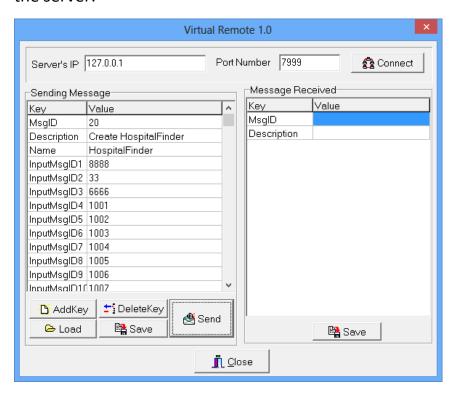
→ JRE System Library [JavaSE-1]

    > > xml
prjRemote.exe
       SISsetup
                                                       /* Turn off comps by comp name */
public static void TurnOff(String in) {
```

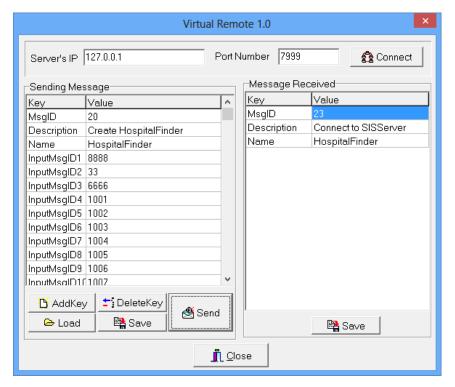
Next I start prjRemote.exe and connect to the SIS server:



Then I load a message 20 to initialize my HospitalFinder component and send it to the server:



Now I am starting my component from eclipse. We can see that my component just generated message 23: Connect to SISServer in prjRemote:

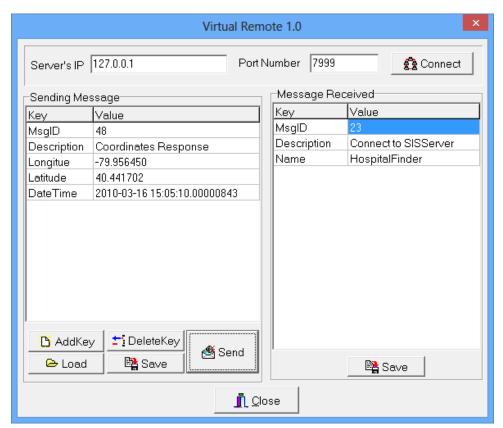


And in eclipse we see that Hospital Finder component successfully connected:

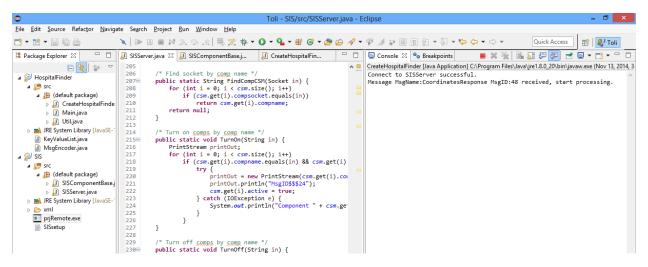
```
<u>File Edit Source Refactor Navigate Search Project Run Window Help</u>
→ • • • • •
                                    📮 Package Explorer 🛭 📅 🗖 🔝 SISServer.java 🕄 🔑 SISComponentBase.java 🔬 CreateHospitalFinder.java
                                                                                                                                      /* Find socket by comp name */
public static String FindCompCSM(Socket in) {
  for (int i = 0; i < csm.size(); i++)
    if (csm.get(i).compsocket-equals(in))
      return csm.get(i).compname;
  return null;
}</pre>
 Connect to SISServer successful.
    Util.java
    JRE System Library [JavaSE-
                                                /* Turn on comps by comp name */
public static void TurnOn(String in) {
       KeyValueList.java
                                                     PrintStream printOut;
for (int i = 0; i < csm.size(); i++)
    if (csm.get(i).compname.equals(in) && csm.get(i).active == false)
       MsgEncoder.java
    ⊿ 🎏 src
                                                              (csm.get(i).compname.equals(in) && csm.get(i).active == false)
try {
    printOut = new PrintStream(csm.get(i).compsocket.getOutpu
    printOut.println("MsgIDS$$24");
    csm.get(i).active = true;
    cath( IOSException e) {
        System.out.println("Component " + csm.get(i).compname + "
    }
}

→ March JRE System Library [JavaSE-
      prjRemote.exe
       SISsetup
                                                }
                                                 /* Turn off comps by comp name */
public static void TurnOff(String in) {
```

Now I can simulate sending data messages using prjRemote. First data message that I send is message 48: CoordinatesResponse (the actual message that my component will be processing):



And in the terminal we see that message was indeed received by my component:



Now Hospital Finder can start processing the message.

Same way my component can receive other messages: 32, 42, 36, 34, 38.

In this case these messages are simulated by projRemote, however in the final system these messages will be coming from other components.