Open eclipse running 1.7 SE

Apache Tomcat 8.0

Eclipse and tomcat installation

First download the Java JDK 1.7

From this link: <http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>

Then download the Eclipse

from this Link: <http://www.eclipse.org/downloads/>

1. If you do not have Apache Tomcat on your machine, you will first need to download and unzip [Apache Tomcat](http://jakarta.apache.org/tomcat/" \t "_top) ([http://tomcat.apache.org/) (8.0](http://tomcat.apache.org/)%20%20(8.0) for this project)
2. Start the Eclipse WTP workbench.
3. Open **Window -> Preferences -> Server -> Installed Runtimes**to create a Tomcat installed runtime.
4. Click on **Add...** to open the **New Server Runtime** dialog, then select your runtime under **Apache** (Apache Tomcat v5.0 in this example):
5. Click **Next** , and fill in your **Tomcat installation directory** :
6. Ensure the selected **JRE** is a full JDK and is of a version that will satisfy Apache Tomcat
7. Click **Finish** .

Dynamic web module version 3.1

Download openmrs-standalone-2.3.1 from the website

Create a new dynamic web project call openmrsMessage (Keep this name the same [important!!!])

Put all the following classes into src in the java resources of openmrsMessage

BCrypt.java GetMessage.java rsaKey.java

Contacts.java addContact.java sendMessage.java

Crypto.java login.java

DBRemoteRequests.java register.java

In the WebContent/WEB-INF/lib of openmrsMessage, put the following file

bks.jar json-simple-1.1.1.jar

commons-codec-1.10.jar mysql-connector-java-5.1.38-bin.jar

Create a new Java project call RMI

Add the following classes to the src of the project

BCrypt.java RMI\_Server.java

Crypto.java RMI\_\_NotifyListeners\_Interface.java

DBRemoteRequests.java RegisterUser.java

DBRequests.java RegisterUserForm.java

FakeDatabase.java RegisterUserResponse.java

LoginUserResponse.java User.java

MessageBlock.java UserContacts.java

MessageStore.java UserContactsResponse.java

Monitor.java database.java

RMI\_Client.java

Add the following folder to the java build path of the RMI

bks.jar json-simple-1.1.1.jar

commons-codec-1.10.jar mysql-connector-java-5.1.38-bin.jar

In the openmrs-standalone-2.3.1, run the openmrs-standalone.jar

(In the RMI, make sure that database.java contain the correct info)

String userName

String password

String serverName = "127.0.0.1";

String portNumber

String dbName = "openmrs";

Make sure the portNumber is the same as show in the openmrs-standalone.jar

Make sure the password and userName is the same as in the openmrs-standalone-runtime.properties in the openmrs-standalone-2.3.1

Otherwise the database is not going to connect.

Run the RMI\_Server.java in RMI in the eclipse

Last run the openmrsMessage as dynamic web

Make sure all these are running in the same computer

For android, use the apk to install on the phone,

Before install the app make sure you add the database schema(messageusers and messagefriends) to the database before the app is running.

Install apk from pc(window)

Just connect your smartphone to **computer** via USB cable and select “Media device” when prompted. Then, open your phone's folder on your **PC** and copy the **APK** file you want to **install**. Simply tap the **APK**file on your handset to facilitate **installation**

Before you can install it on your phone you will need to make sure that third-party apps are allowed on your device. Go to *Menu* > *Settings* > *Security* > and check *Unknown Sources* to allow your phone to install apps from sources other than the Google Play Store.

Step1: When you register or login, make sure you put the url <http://IP> address that is using for the servlet:8080

Step2: When you add a friend please use the user id

Setp3: Please logout once when you finish adding friend and log back in