# Cd oib-Instructions for Installing the OpenInfobutton Responder

### Software Dependencies/Pre-installation Requirements

1. Java 1.6 JDK or above - JDK 1.7 is recommended. The application was developed and tested on:
   1. Oracle’s Java JDK version 1.7.0\_45
   2. Server-side Java version "1.7.0\_51"
2. Java Servlet container. The application was developed and tested most thoroughly using Apache Tomcat 7.0.12.
3. Maven 3.X
4. Git (optional) – can download from the site directly
5. MySql 5.5 or above. Earlier versions are likely ok but have not been tested.
6. UMLS account to access the Web Services API
   1. [https:/uts.nlm.nih.gov/home.html#apidocumentation](https://uts.nlm.nih.gov//home.html#apidocumentation)
   2. https:/uts.nlm.nih.gov/home.html

### Ubuntu/Linux Commands to Download/Install Dependencies

server-apps]% sudo apt-get install openjdk-7-jdk

server-apps]% sudo apt-get install tomcat7

server-apps]% sudo apt-get install maven

server-apps]% sudo apt-get install git

server-apps]% sudo apt-get install mysql-server

server-apps]% sudo apt-get install mysql-workbench

### Download the project

This step is only necessary if you have not already downloaded the Open Infobutton yet. The Open Infobutton Responder software comes bundled with it (same git repository/download).

opt]% sudo git clone <https://github.com/VHAINNOVATIONS/Innovation-182.git> -b maste

### Database Schema Creation

From the command line, change to the oib-responder/oib-rdbms-model-v0.2 directory and run the following scripts to prepare the database (for help - http://dev.mysql.com/doc/refman/5.6/en/mysql.html):

oib-rdbms-model-v0.2]% sudo service mysql start

oib-rdbms-model-v0.2]% mysql –u *your\_mysql\_user* –p *your\_mysql\_password* < create-oib-model-mysql.sql

##### *UMLS username and password:*

Then use a text editor to edit oib\_app\_property\_inserts.sql to edit the end of the first two lines changing “ADD UMLS USER HERE” and “ADD UMLS PASSWORD HERE” to the UMLS username and password for you institution. Then save the document changes and continue running the scripts:

oib-rdbms-model-v0.2]% mysql –u *your\_mysql\_user* OIB < oib\_app\_property\_inserts.sql

oib-rdbms-model-v0.2]% mysql –u *your\_mysql\_user* OIB < oib\_asset\_inserts.sql

oib-rdbms-model-v0.2]% mysql –u *your\_mysql\_user* OIB < oib\_asset\_property\_inserts.sql

oib-rdbms-model-v0.2]% mysql –u *your\_mysql\_user* OIB < oib\_request\_parameter\_inserts.sql

oib-rdbms-model-v0.2]% mysql –u *your\_mysql\_user* OIB- < oib\_value\_set\_code\_inserts.sql

##### *Database jdbc settings – driver, url, username and password:*

Complete the database and UMLS Terminology Service settings in the following files:

1. oib-responder/oib-rest-responder/src/main/webapp/jdbc.properties
2. oib-responder/oib-index-manager/src/main/resources/app.properties

##### *Build the project*

Navigate on the command line to the oib-responder directory and type the following commands:

oib-responder]% mvn clean install

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... this will take a few minutes. You should see a bunch of jars getting downloaded, tests running, and then finally a “SUCCESS” when it is done.

When a successful build has completed, a war file is created in the following directory:

oib-responder/oib-rest-responder/target/openInfobutton.war

Copy this file to your Java servlet engine app directory. If you use Tomcat copy the file to the $CATALINA\_HOME/webapps directory where $CATALINA\_HOME is the root directory of the Tomcat installation.

Start the server and try the following URL in a browser that supports Atom feeds (Firefox is a good option):

<http://your-server-address/openInfobutton/responder?mainSearch>

You should get back an atom feed that looks something like: