

To build the project, copy/paste following commands into the terminal/command-line

STEP 1: INSTALL MAVEN (Mac)

1) Click on this link to download Apache Maven v 3.3.9: <http://www.trieuvan.com/apache/maven/maven-3/3.3.9/binaries/apache-maven-3.3.9-bin.zip>

2) Navigate into your “Downloads” folder in the terminal and paste this command: `unzip apache-maven-3.3.9-bin.zip`

Copy and paste the next commands on your terminal/command-line:

3) `cd /usr/local`

4) `sudo mkdir apache-maven` (You may be prompted to provide password after this command)

5) `cd ~/Downloads`

(Navigate back to “Downloads” folder)

6) `sudo cp -R apache-maven-3.3.9 /usr/local/apache-maven` (the text in bold will be the name of the unzipped folder of the maven downloaded earlier)

7) `export M2_HOME=/usr/local/apache-maven/apache-maven-3.3.9`

8) `export M2=$M2_HOME/bin`

9) `export PATH=$M2:$PATH`

Make sure that JAVA_HOME is set to the location of your JDK, e.g below

10) `export JAVA_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0_40.jdk/Contents/Home`

MAVEN HAS BEEN INSTALLED

To check if maven has been installed on your system, enter the following command: `mvn --version`

STEP 2: BUILD THE FILES

1) The **pom.xml**, **web.xml** and the jar files in WebContent/WEB-INF/libs (gson, json, jersey and junit) are already provided along with the source code. No changes are required at this moment to any of the files.

2) Copy the root folder (lf2u) to your maven folder. Navigate to the directory where lf2u is placed enter the command: `sudo cp -R lf2u /usr/local/apache-maven/apache-maven-3.3.9`

3) Now navigate to the lf2u folder in the maven directory. Enter the command: `cd /usr/local/apache-maven/apache-maven-3.3.9/lf2u`

4) Enter 'mvn clean' and then 'mvn package'.

The output on the screen should say 'BUILD SUCCESSFUL' and files have been built. You will see a new 'target' folder and lf2u.war file in it.

`cd /usr/local/apache-maven/apache-maven-3.3.9/lf2u/target.`

5) Now this has to be copied to the tomcat folder (Tomcat has to be installed prior to this) (Following is the link to Tomcat version 8.0.39) (<http://shinyfeather.com/tomcat/tomcat-8/v8.0.39/bin/apache-tomcat-8.0.39.tar.gz>).

Lets assume that after installation, it was placed in '~Documents' folder

6) Enter the following command to copy (make sure you are in the lf2u folder which is in maven directory): `cp target/lf2u.war ~Documents/apache-tomcat-8.0.39/webapps`

7) Start the server and run the application with GET, PULL, PUT calls

**** Please see the MEMO file to understand this project and how to run it**