**Libraries and Tools used**

**-**For parsing our Java files I have written a **Parser** (Parser.java), which parses my java code and put it in a new folder(copied-files) with required annotations as required by UMLGraph

-**UMLGraph** uses new folder to parse java files to generate graph.dot

-Finally, **Graphviz** uses the graph.dot file to generate PNG file

-umlparser.sh script file contains batch commands to execute above steps

-**umlparser.sh** will take 2 arguments 1st is classpath (default package where java files to be converted are placed) and 2nd name of the PNG file

***-Other all folders and files are required by UMLGraph and Graphviz so please do not remove them***

**Personal Project Setup Instructions for Operating System: Mac OSX:**

Before Downloading the files from Dropbox link please follow below steps to install prerequisite tools

**Step 1: Install UMLGraph**

-Download UMLGraph package tar file from <http://www.umlgraph.org/download.html>.

-After downloading it please follow installation steps as stated in <http://www.umlgraph.org/doc/install.html>

**-**Extract the files from the compressed folder and perform following operations.

1. Copy the files in lib to a directory you will use for storing UmlGraph's installation (for instance, /usr/local/lib).
2. Copy the file bin/umlgraph (for Unix) to a directory of your execution path (for instance, /usr/local/bin).
3. Adjust the above file, setting UMLGRAPH\_HOME to point to the directory where you installed the UmlGraph library files.

**Step 2: Install Graphviz**

The output of UmlGraph needs to be post-processed with the *Graphviz* *dot* program. Therefore we need to have  [Graphviz](http://www.graphviz.org/) installed on our machine. Download it from:

<http://www.graphviz.org/Download_macos.php> and install it on your computer.

**Step 3: Check Javadocs, JDK and JRE**

**-**We will also require <javadocs> to run our project so make sure the system has valid version of javadocs.

-javadocs already comes with JDK, but make sure your jre and jdk are of same version

-You can check if correct version of javadocs is present by checking the <Javadoc> command on terminal

**Step 4: Download the project files from drop box link**

Now we are set up with the basic tools required for generating the class diagram from our .java files.

Download the UMLParser.zip from drop box link and unzip it. Apart from other files, **make note of following important files which should exist in it**

1. Parser.class
2. umlparser.sh: This is the bash file file which takes two arguments. First argument takes the path of folder(make sure folder name does not have space) where all the .java source files will be placed. Second argument will be the name of image file generated.
3. Directory named as “copied-files”: This duplicate directory contains the modified java files that are modified by Parser.class.

**Step5: Execute the program on Terminal**

Navigate to the unzipped directory “umlparser” you downloaded on Terminal. And run this command.

**./umlparser.sh <classpath> <outputfilename>**

This will generate the desired image file with the specified filename in the <classpath> directory.