**Installation Instruction**

# Detailed installation instructions:

1. **Install using the prepacked app -** Prepackaged runnable application can also be downloaded from [here](http://rohitpagerank.s3-website-us-west-2.amazonaws.com/). Just download and click on the app to launch it.

The packaged version uses the dblp data indexed in AWS ec2.

1. **Install from Source**

* **System/Software requirement**

Dependencies: The application has dependency on JDK-7, Maven, Make and ElasticSearch – 5.3.0

* Java - Java 8 should be installed on your computer

To install

Linux:

Sudo apt-get install java-8-openjdk-amd64

* Maven

You should have Maven downloaded on your computer

Linux : Sudo apt-get install maven

Mac : Brew install maven

* Git

If you are using Windows, make sure git is installed on your machine, it will be used to pull repository from GitHub.

* Make

In order for the build process, make sure make is installed on your machine.

Linux : Sudo apt-get install make

Mac : Brew install make

* **Get the data**

[Download the data here](https://drive.google.com/drive/folders/0By_6s8lGuvA-UG1DUDVTOEE3Sms) and **store the data in the directory of “team1/MSD”**

* dblp.xml.gz contain the dblp.xml file, which will be parsed and stored in ElasticSearch
* dblp.dtd contain the data type, it will be needed when parsing the dblp.xml file
* committees.tar.gz contain the committee member information. Committee data should be added to committeeTest folder in team1/MSD.
* **Build the application**
* Clone the latest version of the app from [github](https://github.ccs.neu.edu/CS5500-Spring2017/team1).
* Install Elastic Search following instructions from [here](https://www.elastic.co/downloads/elasticsearch).
* Replace the elasticsearch.yml file located at elasticsearch-5.3.0/config/ with elasticsearch.yml file located at project source location.
* Start elastic search by running bin/elasticsearch from elasticsearch-5.3.0 folder.
* Build the app by running “mvn run” from commandLine from team project folder.
* Perform Indexing of the date by running FrontEnd.java file. Place dblp.xml and dblp.dtd file at the team1/MSD folder and run the following command from team1 folder - “make index”. The indexing process may take upto 1.5 hours.
* **Run the search application**

The build process generates an installer in the team1/MSD folder called “”. Double click on the installer to run the application.

**Important requirement for the computer to install this application:**

* The system should have enough RAM to run the ElasticSearch indexing process(more than 8GB)
* The “dblp.xml” and “dblp.dtd” file should be in the same folder
* The “committees” folder should be placed in the MSD directory