Installation Instruction

Detailed installation instructions:

1. **Install using the prepacked app -** Prepackaged runnable application can also be downloaded from here. Just download and click on the app to launch it.
   The packaged version uses the dblp data indexed in AWS ec2.

2. **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 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.
  - Install Elastic Search following instructions from here.
  - 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