

Appendix B

Maintenance Manual

B.1 System Requirements

The system is designed to run on 64-bit Linux/Ubuntu operating systems. Different components of the system may require up to 15GB RAM, therefore a machine with higher memory is needed.

B.2 Dependencies

The following components need to be installed before the system can run:

- Python 2.7 or higher 2.x version
- Python 3.5 or higher 3.x version
- OpenKE¹ - no need to download this as it comes as a part of the project files
- KnowledgeStream² - no need to download this either as it comes as a part of the project files too. However, you will need to download the original KnowledgeStream test data³ if you intend to use it.
- Stanford CoreNLP⁴
- MongoDB⁵
- Python packages
 - pip and pip3 or easy_install - for installing new packages
 - pandas⁶
 - numpy⁷
 - sklearn⁸
 - requests⁹

¹<https://github.com/thunlp/OpenKE>

²<https://github.com/shiralkarprashant/knowledgestream>

³<http://carl.cs.indiana.edu/data/fact-checking/data.zip>

⁴<https://stanfordnlp.github.io/CoreNLP/download.html>

⁵<https://www.mongodb.com/>

⁶<https://pandas.pydata.org/>

⁷<http://www.numpy.org/>

⁸<http://scikit-learn.org/stable/>

⁹<http://docs.python-requests.org/en/master/>

- bs4¹⁰
- pymongo¹¹
- nltk¹²
- pycorenlp¹³
- neuralcoref¹⁴

B.3 Running the System

In order to run the system, you need to have a number of tools running in the background which the system is dependent on. The steps to start the system are as follows:

1. Start your mongoDB instance with parameters *mongod -nojournal -dbpath /path/to/mongo* replacing */path/to/mongo* with the path where you have installed mongod
2. Navigate to the folder where you have installed CoreNLP. Start the CoreNLP server with the command

```
java -mx8g -cp "*" edu.stanford.nlp.pipeline.StanfordCoreNLPServer -annotators "tokenize,ssplit,pos,lemma,parse,sentiment" -port 9000 -timeout 30000
```
3. Navigate to the main project folder and start the system with *python3 main.py*

¹⁰<https://www.crummy.com/software/BeautifulSoup/>

¹¹<https://api.mongodb.com/python/current/>

¹²<https://www.nltk.org/>

¹³<https://github.com/smllli/py-corenlp>

¹⁴<https://github.com/huggingface/neuralcoref>