# **Web Application Development**

#### Member

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Role: Backend

https://github.com/lbxxdi

5610500079 Aikdanai Sidhikosol

Role: Frontend

https://github.com/blutarche

5610500311 Kanitkorn Sujautra

Role: Backend

https://github.com/lukyth/

5610501008 Padungkiat Tamasee

Role: Backend

https://github.com/quazzer

5610503841 Jitlada Supreeyaporn

Role : Load Balance https://github.com/melpst

5610503981 Wassapon Watanakeesuntorn

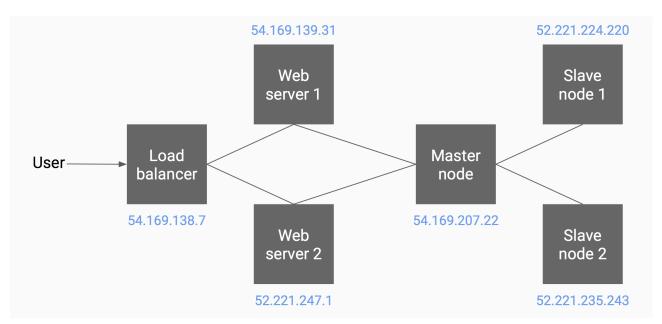
Role: Load Balance

https://github.com/boom10899

### **Architecture Design**

- Load Balance 54.169.138.7
- Web Server 54.169.139.31 52.221.247.1
- Hadoop Nede

54.169.207.22 (Master Node) 52.221.224.220 (Slave Node) 52.221.235.243 (Slave Node)



### Load Balance

- Use nginx with Least Connection Algorithm for load balance.

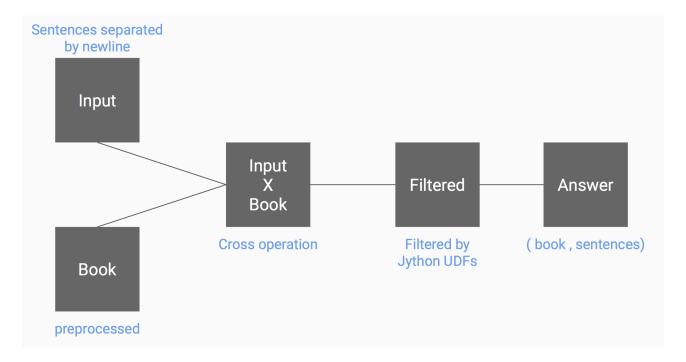
#### **Web Server**

- Use jQuery
- Send data with AJAX

#### **Preprocess for Books**

- Reformat each book into one line.
- Remove '\n', '\r', '\t' and multiple instances of ' '
- Add file name in front of line separated by '\t'

# Pig Design



- Get input and cross operation with Book that we want to search.Filtered by Jython UDFs.Return answer to Web Server.