

Web Application Development

Member

5510500140 Sippakorn Widsankun

Role : Backend

<https://github.com/lbxxdi>

5610500079 Aikdanai Sidhikosol

Role : Frontend

<https://github.com/blutarche>

5610500311 Kanitkorn Sujautra

Role : Frontend

<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

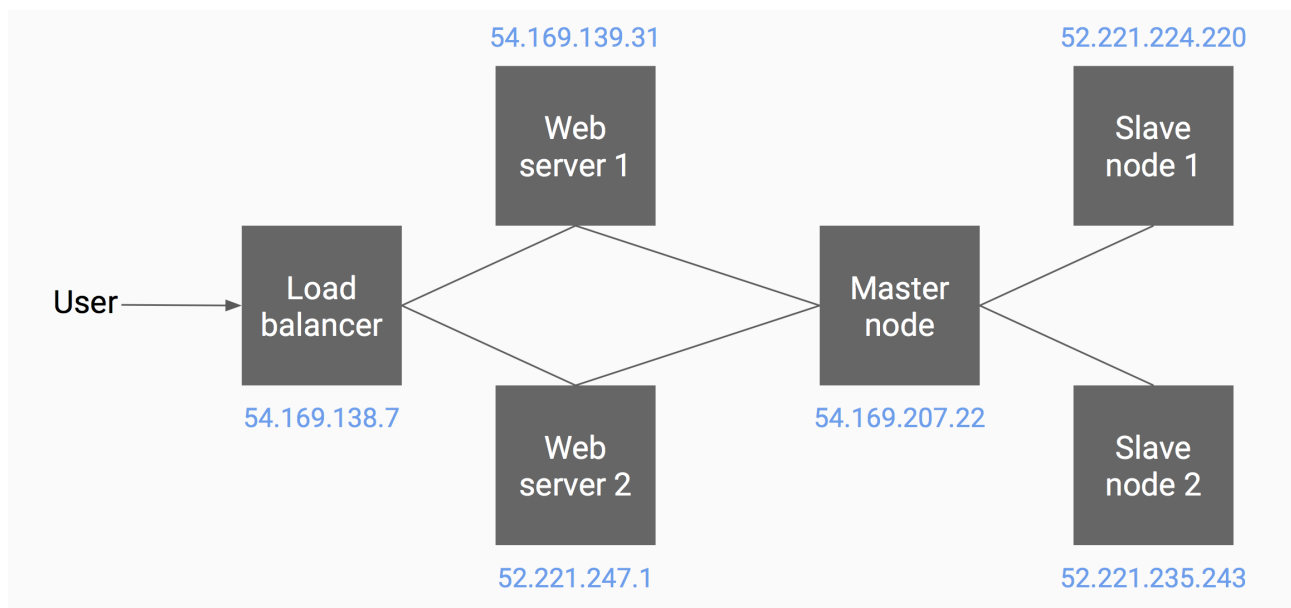
<https://github.com/boom10899>

Architecture Design

- Load Balance
54.169.138.7

- Web Server
54.169.139.31
52.221.247.1

- Hadoop Node
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.

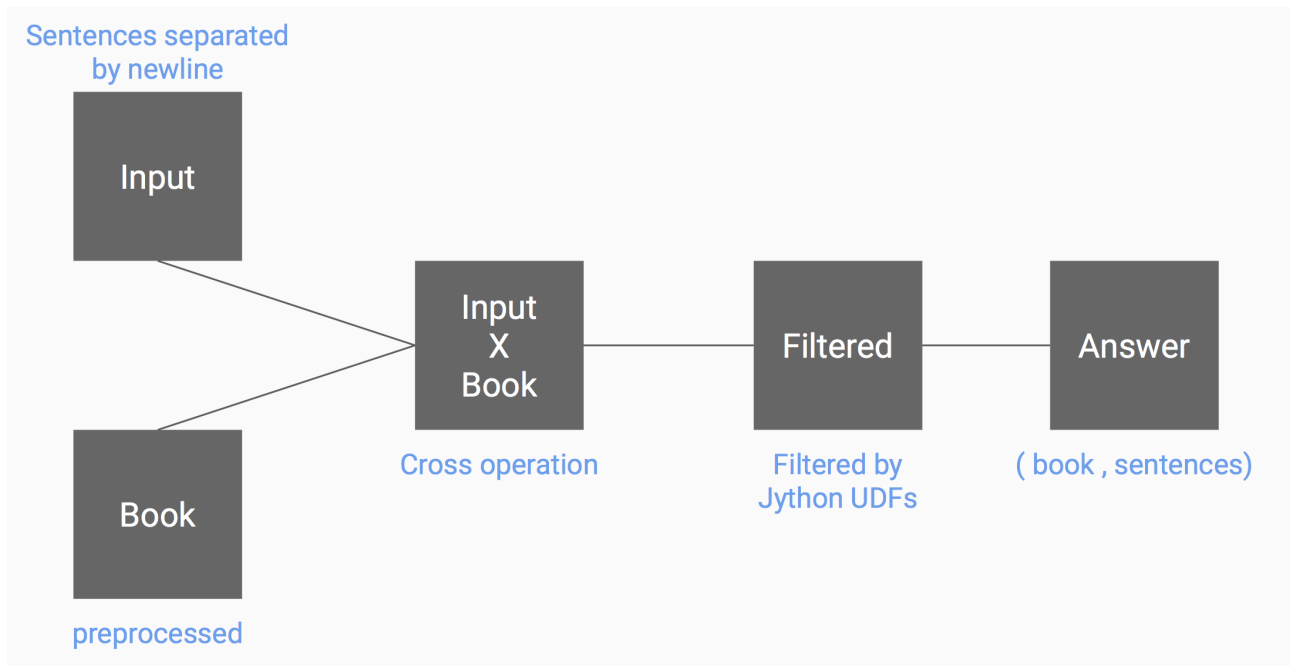
Web Server

- 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.