Project Summary

Following were the steps performed to complete the project: -

Server Setup: -

- 1. Installed three instances of apache tomcat
- 2. Downloaded PCRE
 - curl --remote-name

ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/pcre-8.39.tar.gz

- tar -xzvf pcre-8.39.tar.gz
- Ran ./configure --

prefix=/Users/shivendrasrivastava/Documents/Apache_SAPFieldglass/pcre-8.39

- ln -s /Users/shivendrasrivastava/Documents/Apache_SAPFieldglass/pcre-8.39 /usr/local/pcre
 - echo 'export PATH=/usr/local/pcre/bin:\$PATH' >> ~/.bash profile
 - source ~/.bash profile
- 2. Installed httpd server as a load balancer
 - Downloaded the httpd server
 - Ran the ./configure --

prefix=/Users/shivendrasrivastava/Documents/Apache_SAPFieldglass/httpd -- with-pcre=/usr/local/pcre

- Ran make && make install
- 3. Downloaded latest mod_jk source
 - Ran ./configure --with-

apxs=/Users/shivendrasrivastava/Documents/Apache_SAPFieldglass/httpd/bin/apxs

- Ran make && make install
- Module mod_jk.so was generated and put under httpd/modules
- 4. Modify httpf.conf to load module mod_jk.so
- 5. Modify the server.xml for each tomcat instance to set jvmRoute to the worker number
- 6. Modify the server.xml to add cluster information.
- 7. Start and test the configuration to make sure it worked.
- 8. Added tribes jar for class not found exception -

Message Source Dispatch 15 Interceptor

- 9. Added multicast ip sudo route -nv add -net 228.0.0.4 -interface en0
- 10. Still getting exception cannot join multicast group
- 11. Set privileged=true in \$CATALINAHOME/context.xml
- 12. Set reloadable=true in \$CATALINAHOME/context.xml
- 13. Added sticky session with the help of mod proxy.so and other dependencies.

Code Setup: -

- 1. AppController handles incoming requests.
- 2. AppController calls the service method to initiate an Async method that watches the file db.txt for changes.
- 3. If the file is modified then a message is constructed and then sent to the other cluster nodes.

Issues: -

- 1. Could not get the multicasting to work on my macbook.
- 2. Could not actually test the working of the application.
- 3. Could not implement programmatically removing server nodes on the fly.