# Sphinx Local Set Up

### Prerequisite :

Install : Google Chrome, Git, NodeJS, NPM, LAMP ( MySQL ), PHPMyAdmin,

MemCache, VS Code, Pycharm, Anaconda Virtual Environment

OS : Linux

Good to have : MYSQL Workbench, Postman

Mandatory : Bitbucket account with access to repository

### Steps :

* Setting up Virtual Environment

1. Download Anaconda.
2. Run bash Anaconda3-2020.11-Linux-x86\_64.sh
3. conda config --set auto\_activate\_base False

* Front End Setup

1. Clone the git repository in the path that you wish to work on.

git clone <https://harshadnarayane@bitbucket.org/neerajku9923/smartgrader-1.0.git>

1. Go to the directory ‘/smartgrader-1.0/sphinx-ui-2/sphinx-new-frontend’ in the project workspace.
2. Run ‘sudo npm install’ to install dependent Node Modules.
3. Run ‘sudo npm start’ to start the frontend server. It will be hosted on port localhost:4200.

* Installing LAMP, Setting up MYSQL and PHPMyAdmin

1. sudo apt-get update
2. sudo apt-get upgrade
3. sudo apt-get dist-upgrade
4. sudo apt-get autoremove
5. sudo apt-get install openssh-server
6. ssh harshad@172.23.130.132
7. sudo apt-get install apache2
8. cd /var/www/html
9. sudo nano phpinfo.php
10. sudo apt-get install php php-curl php-xml libapache2-mod-php php-mysql php-mbstring php-gettext php-fpm
11. sudo apt-get install mysql-server mysql-client
12. sudo mysql\_secure\_installation
13. sudo mysql -u root -p
14. select user,authentication\_string,host,plugin from mysql.user;
15. ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'Secret@123';
16. flush privileges;
17. exit
18. sudo apt-get install phpmyadmin
19. sudo systemctl restart apache2
20. sudo ln -s /etc/phpmyadmin/apache.conf /etc/apache2/conf-available/phpmyadmin.conf
21. sudo ln -s /usr/share/phpmyadmin /var/www/html/phpmyadmin
22. sudo service apache2 restart
23. locahost:phpmyadmin
24. Login as root and Secret@123

* Installing Memcache

1. sudo apt install memcached
2. sudo apt install libmemcached-tools
3. sudo nano /etc/memcached.conf
4. sudo sed -i "s/|\s\*\((count(\$analyzed\_sql\_results\['select\_expr'\]\)/| (\1)/g" /usr/share/phpmyadmin/libraries/sql.lib.php
5. sudo service apache2 restart

* Workspace Setup

1. Open Pycharm and the project workspace.
2. Go to the directory ‘/smartgrader-1.0/SmartGraderCore’ in the project workspace.
3. Install all the python project dependencies from requirements.txt.
4. Open settings.py from SmartGraderCore/SmartGrader

Set Database as

DATABASES = {

'global': {

'ENGINE': 'django.db.backends.mysql',

'NAME': 'smartgrader\_test\_global',

'USER': 'root',

'PASSWORD': 'Secret@123',

'HOST': '127.0.0.1', # Or an IP Address that your DB is hosted on

'PORT': '3306',

'OPTIONS': {

"init\_command": "SET foreign\_key\_checks = 0;",

},

},

'1\_db': {

'ENGINE': 'django.db.backends.mysql',

'NAME': 'smartgrader\_test\_cs771',

'USER': 'root',

'PASSWORD': 'Secret@123',

'HOST': '127.0.0.1', # Or an IP Address that your DB is hosted on

'PORT': '3306',

'OPTIONS': {

"init\_command": "SET foreign\_key\_checks = 0;",

},

},

'2\_db': {

'ENGINE': 'django.db.backends.mysql',

'NAME': 'smartgrader\_test\_cs772',

'USER': 'root',

'PASSWORD': 'Secret@123',

'HOST': '127.0.0.1', # Or an IP Address that your DB is hosted on

'PORT': '3306',

'OPTIONS': {

"init\_command": "SET foreign\_key\_checks = 0;",

},

},

'default': {

'ENGINE': 'django.db.backends.mysql',

'NAME': 'smartgrader\_test\_global', #change it to global, changed this to run shell

'USER': 'root',

'PASSWORD': 'Secret@123',

'HOST': '127.0.0.1', # Or an IP Address that your DB is hosted on

'PORT': '3306',

'OPTIONS': {

"init\_command": "SET foreign\_key\_checks = 0;",

},

}

}

1. Set Caches as

CACHES = {

'default': {

'BACKEND': 'django.core.cache.backends.memcached.MemcachedCache',

'LOCATION': '127.0.0.1:11211', #127.0.0.1 to memcached

'KEY\_PREFIX': 'sessions',

'TIMEOUT': None,

}

}

1. Run mysql -u root -p

* CREATE DATABASE smartgrader\_test\_cs771;
* CREATE DATABASE smartgrader\_test\_cs772;
* CREATE DATABASE smartgrader\_test\_global;
* use smartgrader\_test\_global
* exit

1. python3 manage.py makemigrations
2. python3 manage.py migrate
3. python manage.py migrate --database global authentication
4. python manage.py migrate --database 1\_db coursemanager
5. python manage.py migrate --database 1\_db assignmentmanager
6. python manage.py migrate --database 1\_db eventmanager
7. python3 manage.py runserver 3000
8. Run mysql -u root -p

* source initialize\_course.sql;

* Setting Debugging Environment of Pycharm

1. Click on Run -> Edit Configuration in Pycharm
2. Change Port to 3000 from 8000.
3. Click Ok.