

PyCharm Set up for Development

Step 1: Download and install **PyCharm** and **Python 3.6.9** (3.6.X versions should be OK but if you need a fresh one, you should get 3.6.9)

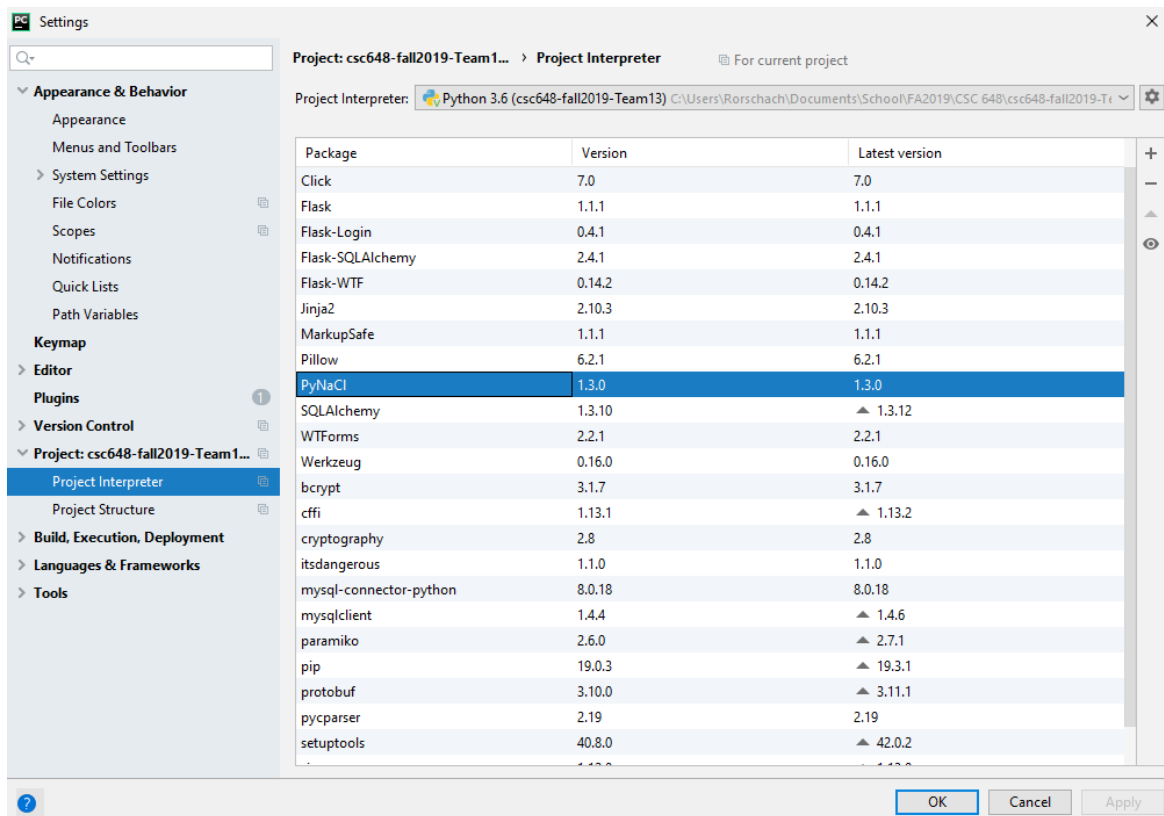
Step 2: Install **github** and clone the project's repository.

Step 3: Switch to the 'website1' branch. Master and development branches will be locked. All code we do will be pushed to other branches and then merged with development or master. You can switch branches with the command: **git checkout website1**

You may need to git pull after switching.

Step 4: Open the repo folder, that you just cloned, in PyCharm. Go to File>Settings and click the project interpreter tab. Select your python installation into the project interpreter dropdown menu. (You may need to create a new one).

Step 5: Once the interpreter is set, click on the + symbol on the right to start adding packages like below:



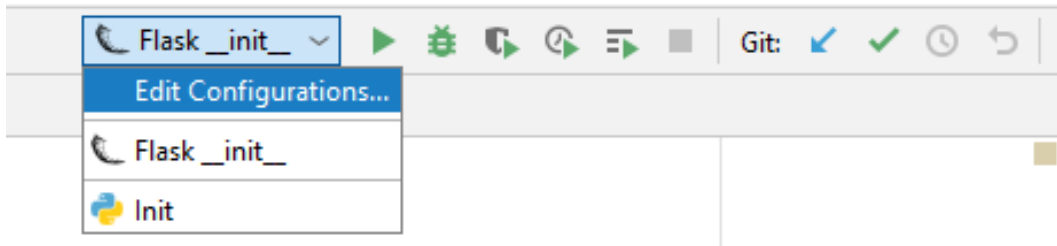
The packages you'll need to install are:

1. Flask
2. Flask-SQLAlchemy
3. Flask-login
4. Sshunnel
5. MySQLclient
6. Pillow

They should install other packages along with them and your list should look similar to mine, above.

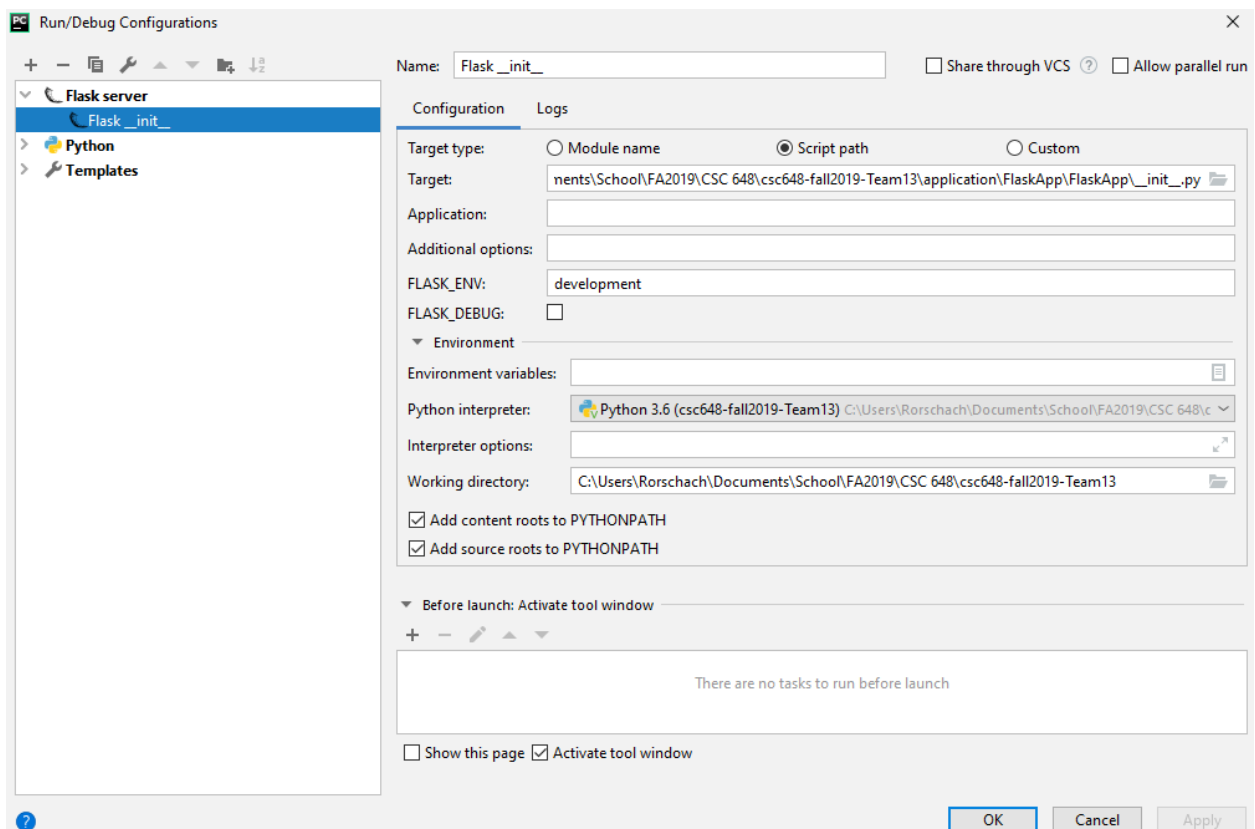
NOTE There has been a lot of trouble installing mysqlclient on mac computers. I do not know how to fix it if you get this error. You may need to google and solve it yourself. If you can't, I recommend switching to a windows computer or using a virtual machine.

Step 6: At the top of your pycharm window, select the drop-down menu and **Edit Configurations**.



Step 7: Set up a new configuration by clicking the + symbol at the top and select 'Flask Server'. This option is not available in the community version, which is why you need the license for PyCharm.

Set your configuration to match mine below (make sure target type is 'script path' pointing to the location of __init__.py file):



Step 8: Your PyCharm is now configured to run and test Flask applications locally. To run the application, just select your flask __init__ configuration at the top and click the green play button.

When running, your console will output the following, below. Simply click the 127.0.0.1 link to open your application in a web browser.

```
* Serving Flask app "application/FlaskApp/FlaskApp/__init__.py"
* Environment: development
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```