# Training

1. Python Basics

<http://openbookproject.net/thinkcs/python/english2e/>

1. Install VirtualWrapper and use it for managing Python virtual environment

<http://virtualenvwrapper.readthedocs.org/en/latest/>

1. Install PEP8 package & run it against the code you write

<https://github.com/jcrocholl/pep8>

1. Complete Django Official Tutorial <https://docs.djangoproject.com/en/1.8/intro/tutorial01/>
2. Deploy the tutorial on Heroku

<https://devcenter.heroku.com/articles/getting-started-with-django>

1. Expose the polls of the tutorial as JSON using Django REST Framework

<http://www.django-rest-framework.org/tutorial/quickstart/>

<http://www.vinaysahni.com/best-practices-for-a-pragmatic-restful-api#restful>

1. Install Django Boiler Plate and make it working locally

<https://github.com/arunghosh/django-boilerplate>

# Coding Guidelines

1. PEP8 - Use PEP8 package to ensure

<https://www.python.org/dev/peps/pep-0008/>

Use the below python package to ensure confirmation to PEP8

<https://github.com/jcrocholl/pep8>

1. Django App Naming Convection - <http://stackoverflow.com/questions/3098681/is-there-a-naming-convention-for-django-apps>
2. REST Api Design

<http://www.vinaysahni.com/best-practices-for-a-pragmatic-restful-api#restful>

1. Django Design Philosphies <https://docs.djangoproject.com/en/1.8/misc/design-philosophies/>
2. REST Worst practises

<http://jacobian.org/writing/rest-worst-practices/>

# Study Materials

1. Django Official Documentation
2. <https://code.djangoproject.com/wiki/Tutorials>
3. <https://godjango.com/>
4. <https://code.djangoproject.com/wiki/Tutorials>
5. <http://agiliq.com/books/djangodesignpatterns/>

Testing

<https://realpython.com/blog/python/testing-in-django-part-1-best-practices-and-examples/>

**Selenium based UI Testing**

1.Tutorial and documentation

<http://selenium-python.readthedocs.org/>

2.A simple example

<http://agiliq.com/blog/2014/09/selenium-testing/>

3.Official documentation

<http://www.seleniumhq.org/docs/>

**Django test**

1.Simple tutorial

<https://docs.djangoproject.com/en/1.8/intro/tutorial05/>

2.A bit outdated but a good tutorial

<http://www.tdd-django-tutorial.com/>

3.Official documentation(must read)

<https://docs.djangoproject.com/en/1.8/topics/testing/>

**Django Rest API Testing**

1. Official reference

<http://www.django-rest-framework.org/api-guide/testing/>

2. Source code

<https://github.com/tomchristie/django-rest-framework/blob/master/rest_framework/test.py>

3. REST Api Design

<http://www.vinaysahni.com/best-practices-for-a-pragmatic-restful-api#restful>

Advanced

**Python**

1.<http://www.diveintopython.net/toc/index.html>

2.A detailed tutorial

<http://learnpythonthehardway.org/book/>