**Documentation**

**Design**

* UI Automation
* Backend Automation

**Best Practices**

* Data Driven Testing
* Page Object Pattern
* CSRF protection

**Real Situations in Automation**

* Data changing continuously
* Slow website problems (Selenium gets slow)

**Solutions to those situation**

* Dynamic framework
* Automate the AJAX calls

**Data**

* Persistent data
* Stream Data
* Absurd data

**Rest API testing**

* Pyrettest
* siesta

**Front End Automation**

* Selenium webdriver
* Splinter
* Nightwatch

**Back end Automation**

* Pytest - BDD
* Behave - framework

**Unit testing**

* Unittest2
* nosetests

**Document Generation**

* HTMLTestRunner
* unittest-xml-reporting

**Continuous Integration**

* Jenkins (complete flow)

**Deployment**

* AWS
* virtualenv

**Features**:

* Dynamic
* TDD
* BDD
* Role based authentication

**Logging**

* Testify
* log4j