Hongik Univ.

Tesla Project “첫걸음”

@SEUNGWOO LEE

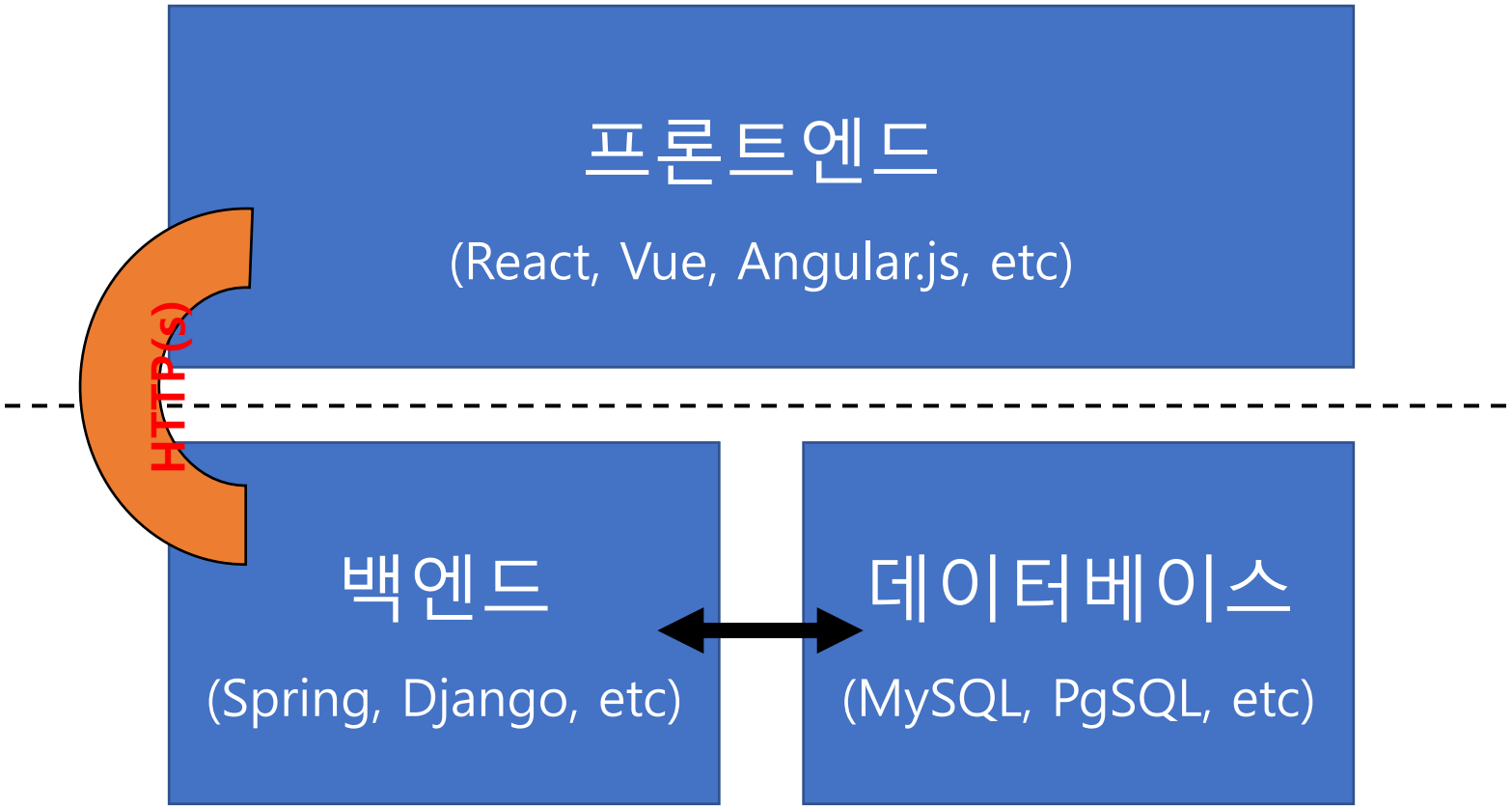
어떻게 작업할지 **토의**

=Brainstorming

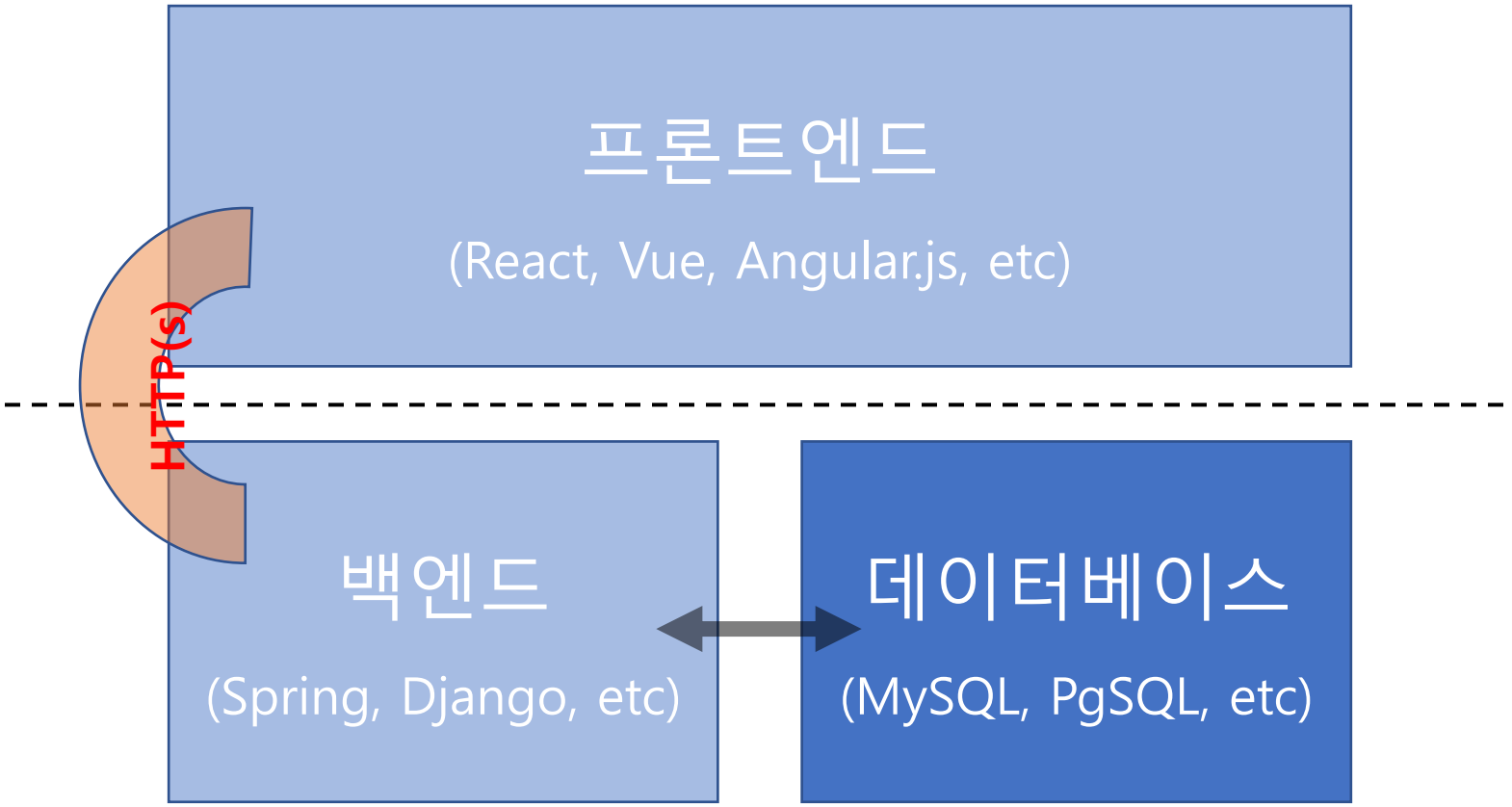
“목적”

스크랩핑 + a

Typical Web(or App) Services



Typical Web(or App) Services



데이터베이스

1. 뭘 담을 것인가

2. 어떻게 담을 것인가

3. 어떻게
자동화할 것인가?

데이터베이스
(MySQL, PgSQL, etc)

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데이터베이스

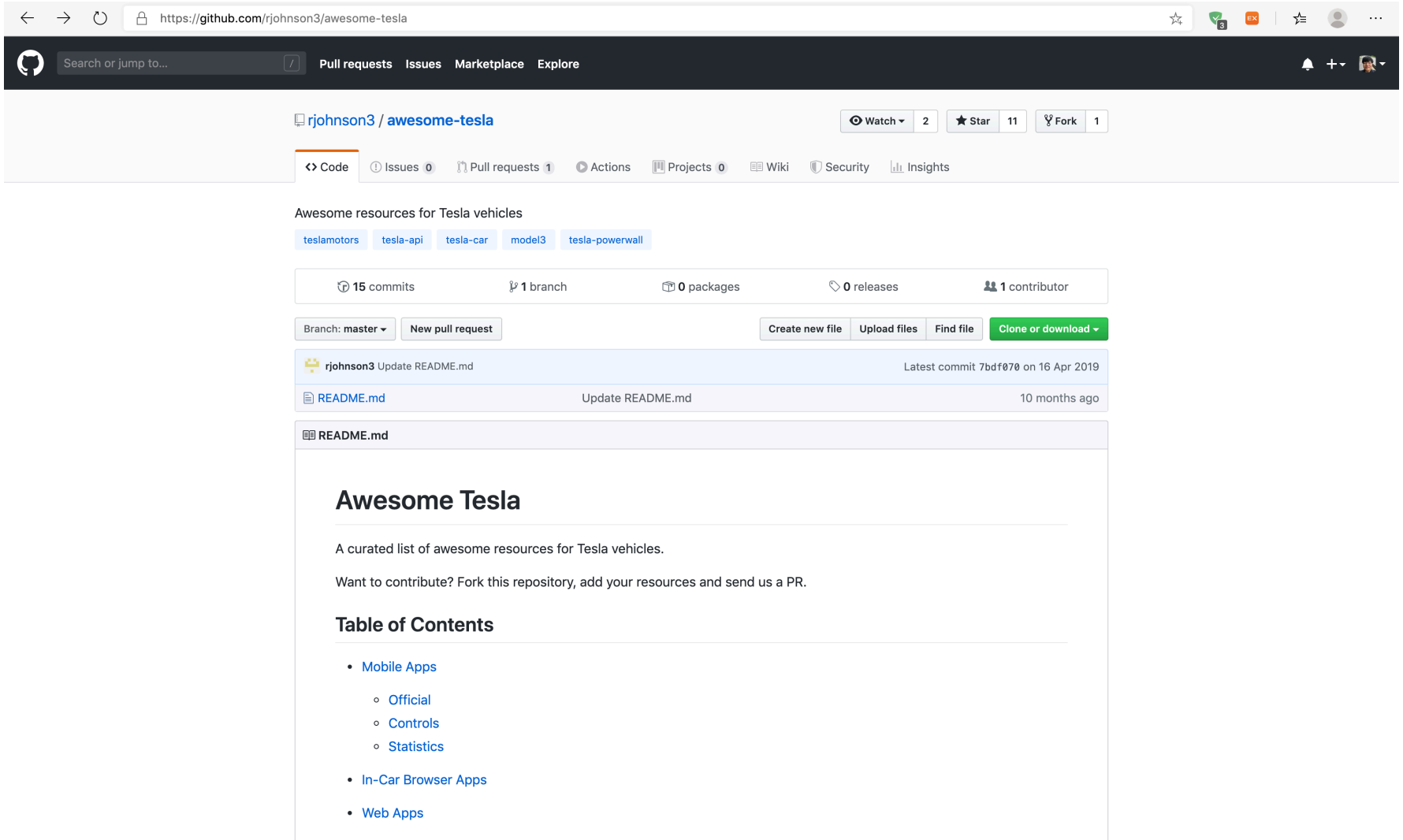
1. 뭘 담을 것인가

- 테슬라 자동차 관련된 Metrics
  1. 뭘 어떻게 주행하였는가?
  2. 사용자의 운전습관
  3. 운전 당시의 날씨
  4. etc

데이터베이스

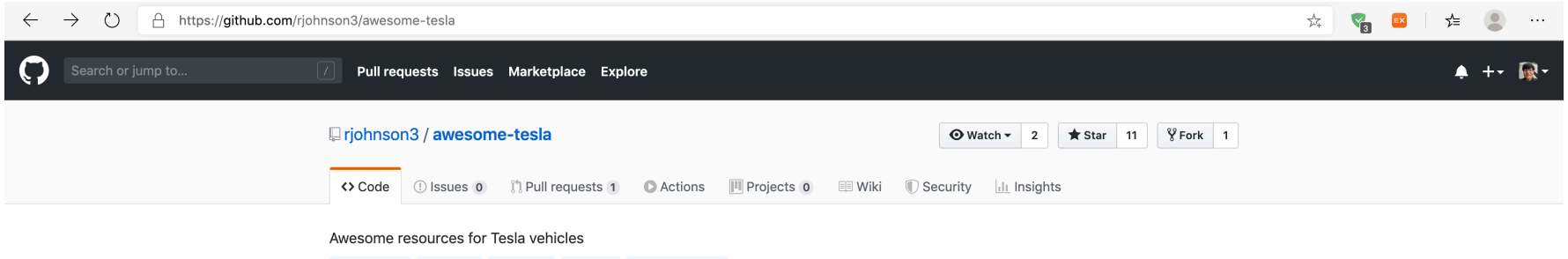
(MySQL, PgSQL, etc)

사례: awesome-tesla



https://github.com/rjohnson3/awesome-tesla

사례: awesome-tesla



Web Statistics

- TeslaFi - Incredible wealth of stats for your Tesla.
- Teslastics - Teslastics is a platform to monitorize your Tesla.

Awesome Tesla

A curated list of awesome resources for Tesla vehicles.

Want to contribute? Fork this repository, add your resources and send us a PR.

Table of Contents

- Mobile Apps
  - Official
  - Controls
  - Statistics
- In-Car Browser Apps
- Web Apps

https://github.com/rjohnson3/awesome-tesla

데이터베이스

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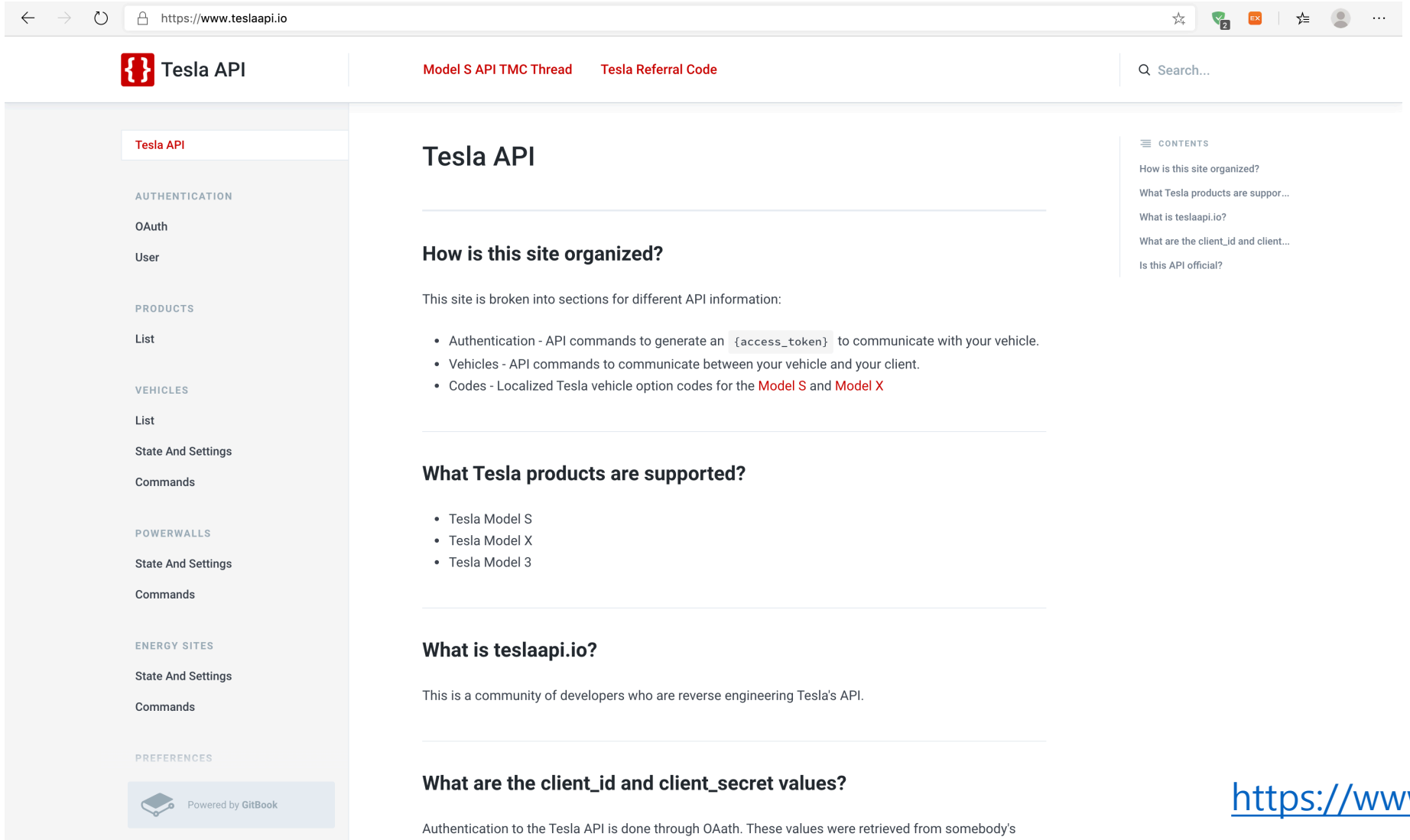
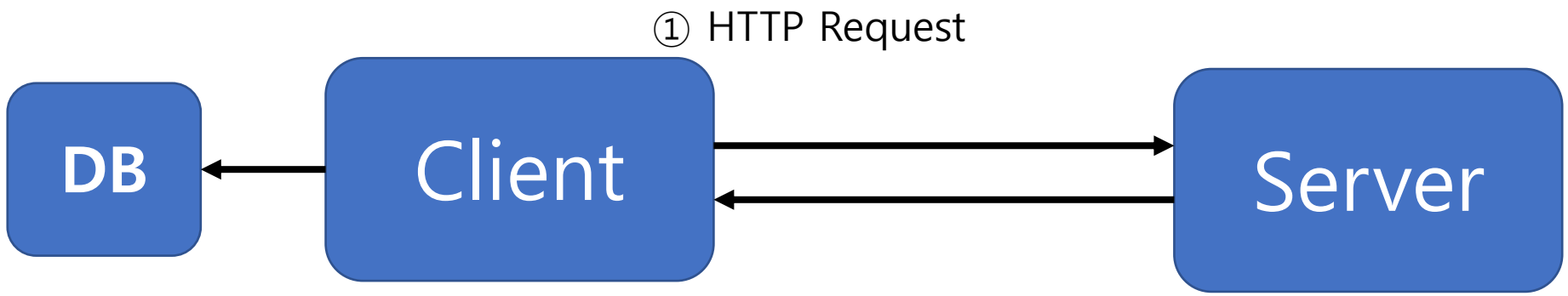
데이터베이스
(MySQL, PgSQL, etc)

Tesla API (Un-Official)



https://www.teslaapi.io

Typical API Requests



데이터 요청시 사용해보면 좋은 툴

HTTP Clients

Libraries for working with HTTP.

- grequests - requests + gevent for asynchronous HTTP requests.
- httplib2 - Comprehensive HTTP client library.
- httpx - A next generation HTTP client for Python.
- requests - HTTP Requests for Humans.
- treq - Python requests like API built on top of Twisted's HTTP client.
- urllib3 - A HTTP library with thread-safe connection pooling, file post support, sanity friendly.

https://github.com/vinta/awesome-python#http-clients

데이터 가공시 사용해보면 좋을 툴

ORM

Libraries that implement Object-Relational Mapping or data mapping techniques.

- Relational Databases
  - Django Models - The Django ORM.
  - SQLAlchemy - The Python SQL Toolkit and Object Relational Mapper.
    - awesome-sqlalchemy
  - dataset - Store Python dicts in a database - works with SQLite, MySQL, and PostgreSQL.
  - orator - The Orator ORM provides a simple yet beautiful ActiveRecord implementation.
  - orm - An async ORM.
  - peewee - A small, expressive ORM.
  - pony - ORM that provides a generator-oriented interface to SQL.
  - pydal - A pure Python Database Abstraction Layer.
- NoSQL Databases
  - hot-redis - Rich Python data types for Redis.
  - mongoengine - A Python Object-Document-Mapper for working with MongoDB.
  - PynamoDB - A Pythonic interface for Amazon DynamoDB.
  - redisco - A Python Library for Simple Models and Containers Persisted in Redis.

https://github.com/vinta/awesome-python#orm

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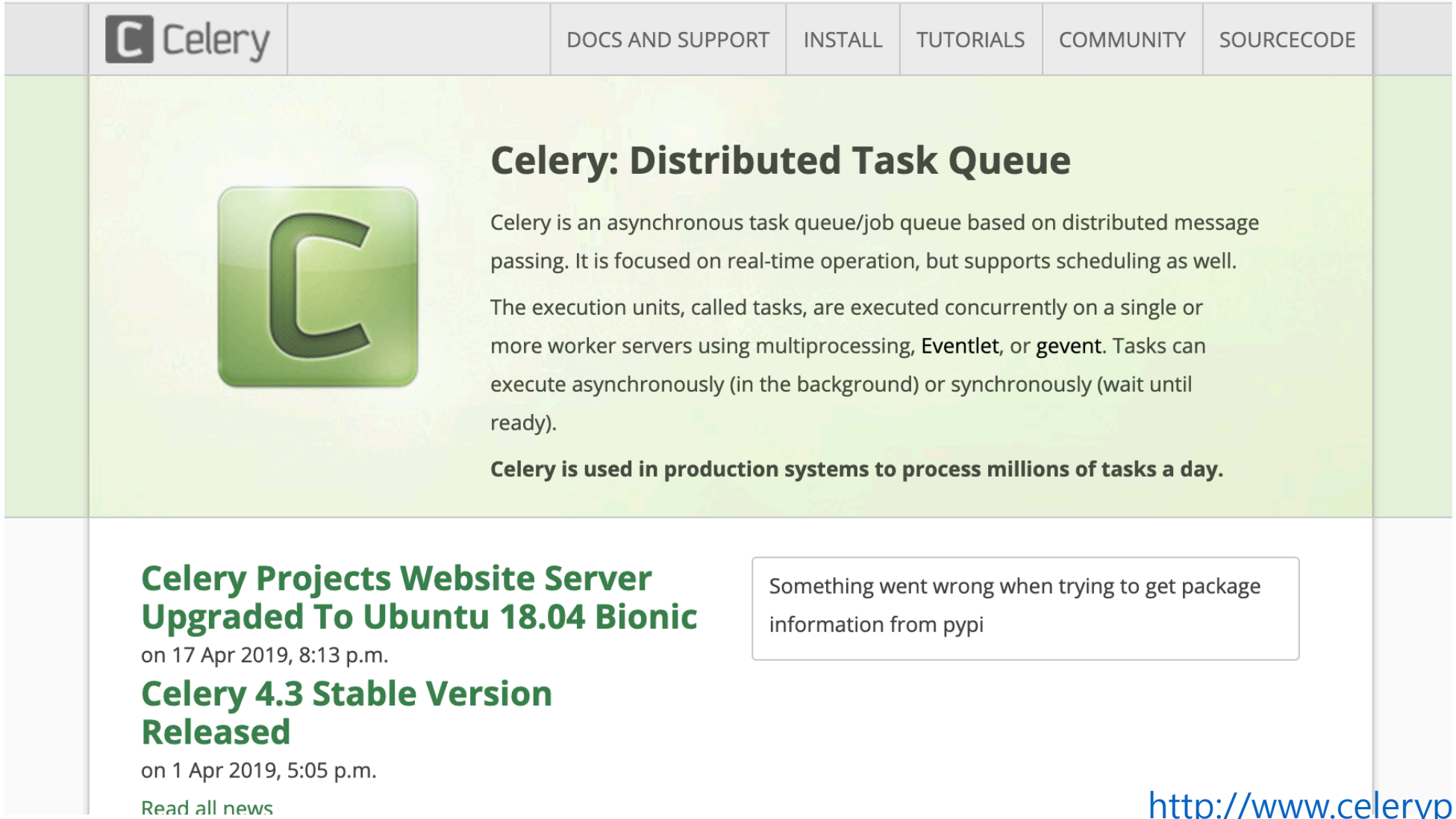
데이터베이스

귀찮은 일을
어떻게 하면
손쉽게 처리할 수 있을까?

3. 어떻게
자동화할 것인가?

“Write Once, Use Many”

Celery



http://www.celeryproject.org/

An Elegant way to run periodic tasks in Python

An elegant way to run periodic tasks in python

sankalp jonna Follow

Oct 30, 2018 · 3 min read

At GreedyGame, we try to help Game Developers monetize without hampering the gameplay experience of the Gamer. We work towards creating a better ad ecosystem by bringing native ads to mobile games and creating Ads people ❤

https://bit.ly/2GqrCKf

Python 모듈화

https://www.digitalocean.com/community/tutorials/how-to-write-modules-in-python-3

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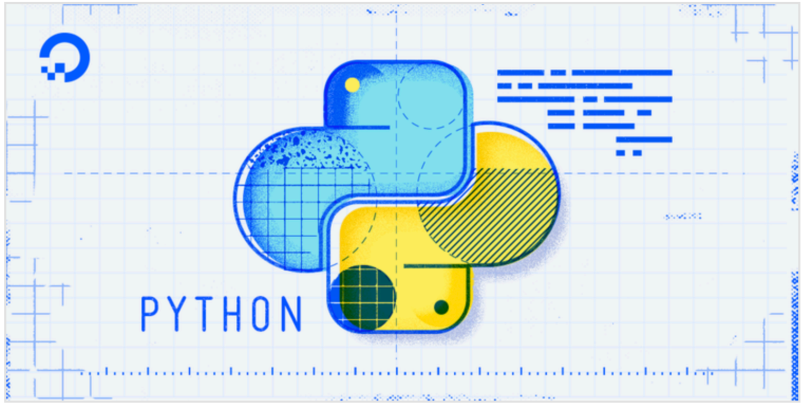
How To Code in Python 3 > How To Write Modules in Python 3

Contents

Writing and Importing Modules

Accessing Modules from Another Directory

Conclusion



Related

Getting Started with Containers and Kubernetes: A DigitalOcean Workshop Kit

Tutorial

How To Display Data from the DigitalOcean API with Django

Tutorial

How To Write Modules in Python 3

Posted February 3, 2017 282.7k PYTHON DEVELOPMENT

By Lisa Tagliaferri
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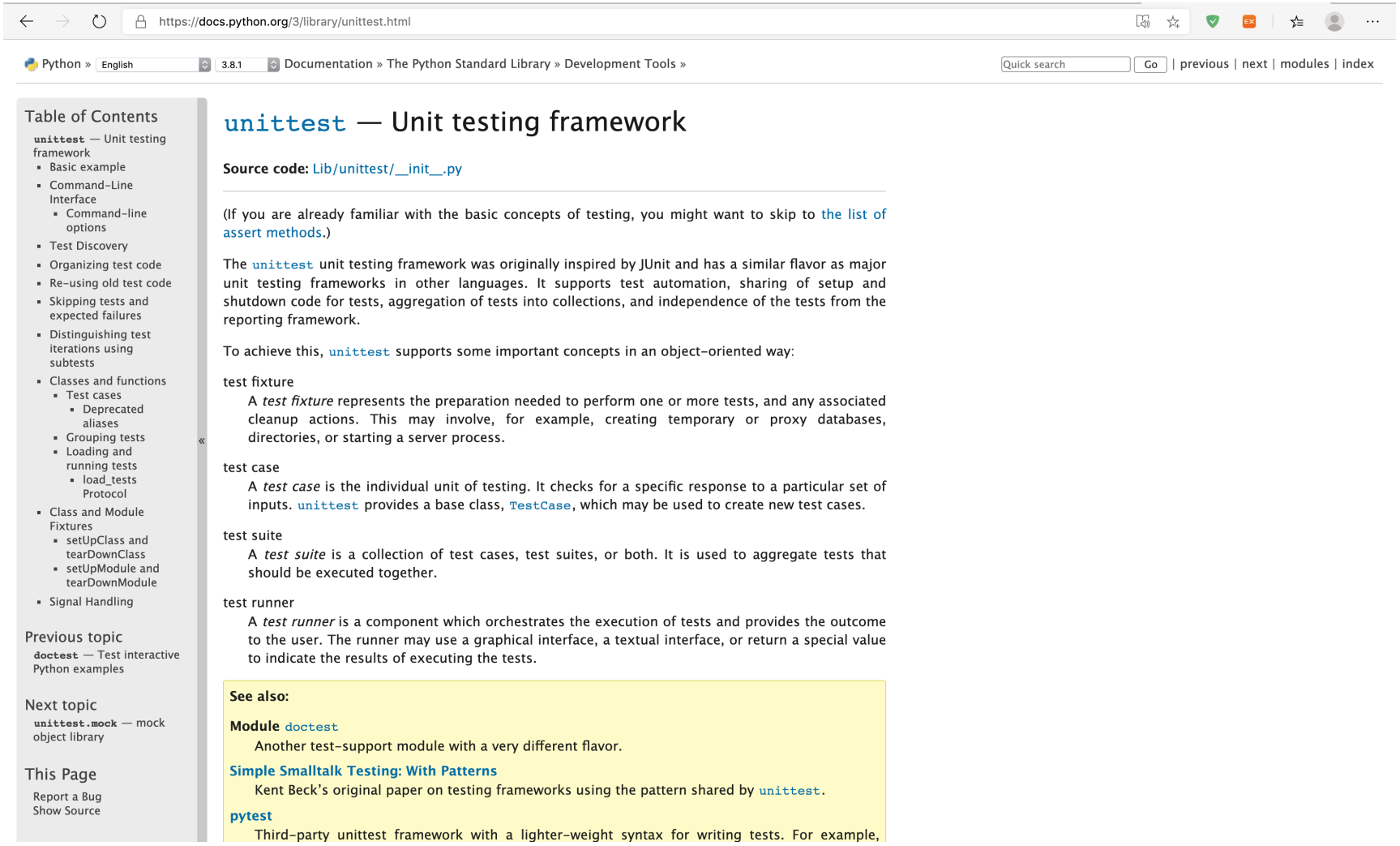
Introduction

Python **modules** are `.py` files that consist of Python code. Any Python file can be referenced as a module.

Some modules are available through the Python Standard Library and are therefore installed with your Python installation. Others can be installed with Python's package manager `pip`.

https://www.digitalocean.com/community/tutorials/how-to-write-modules-in-python-3

Python UnitTesting



https://docs.python.org/3/library/unittest.html

See also:

Module `doctest`
: Another test-support module with a very different flavor.

Simple Smalltalk Testing: With Patterns
: Kent Beck's original paper on testing frameworks using the pattern shared by `unittest`.

pytest
: Third-party unittest framework with a lighter-weight syntax for writing tests. For example, `assert func(10) == 42`.

The Python Testing Tools Taxonomy
: An extensive list of Python testing tools including functional testing frameworks and mock object libraries.

Testing in Python Mailing List
: A special-interest-group for discussion of testing, and testing tools, in Python.

The script `Tools/unittestgui/unittestgui.py` in the Python source distribution is a GUI tool for test discovery and execution. This is intended largely for ease of use for those new to unit testing. For production environments it is recommended that tests be driven by a continuous integration system such as Buildbot, Jenkins or Hudson.

https://docs.python.org/3/library/unittest.html

Tips

- 코드 주석처리 및 설명 기술
  - # 혹은 """ 활용
  - `requirements.txt` 파일에 사용한 모듈 잘 정리되었는지 확인
  - **(+alpha)** 앞서 언급한 `unittest` 테스팅이 잘 동작하는지, test coverage는 어떤지 체크해보기
- README.md 파일 기술
  - 누군가 코칭을 해줄수는 없음. 자신의 스타일에 알맞게 적어놓아야 함.
  - https://github.com/matiassingers/awesome-readme 참고
- GitLab Repository Issue / Slack / Google 잘 활용
  - 개발상의 이슈는 GitLab 레파지토리를 활용하여 정리해놓으면 편리함.
  - Slack을 통해서 개발관련 사항 및 궁금증 공유 (**@ 사용**)
  - 구글을 잘 활용하면 코드 짤때 모르는 부분을 손쉽게 해결할 수 있음.