(/)

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# AirBnB clone - RESTful API

<b>♪</b> Amateur
♣ By: Guillaume, CTO at Holberton School
♦ Weight: 2
✓ Migrated to checker v2: ✓
✓ Manual review behavior: Any student
Project to be done in teams of 2 people

## > Admin corner

Cohort adjustments

Preview manual QA review sheet (/corrections/preview\_correct?project\_id=2131)

## Concepts

For this project, we expect you to look at these concepts:

- AirBnB clone (/concepts/865)
- REST API (/concepts/866)

# Resources

#### Read or watch:

- REST API concept page
- Learn REST: A RESTful Tutorial (/rltoken/fMhTwyQ49kBXlRwtZcTj\_A)
- Designing a RESTful API with Python and Flask (/rltoken/Oxdf1xKxpXFDpSnp4PCdCw)
- HTTP access control (CORS) (/rltoken/0Kp03yl3mti4AcER1lbAVg)



- Flask cheatsheet (/rltoken/9CMkywW574lTxDsnEJcoVQ)
- (/) What are Flask Blueprints, exactly? (/rltoken/dic1o0XVvhhZCfJXNWcwhQ)
  - Flask (/rltoken/bS5uDfBVJFUESzj-F7Aq3A)
  - Modular Applications with Blueprints (/rltoken/7utDLJwGL8gmzG3S2bs4Ag)
  - Flask tests (/rltoken/Lu4eNCJxtLgmYHKHLq0ALg)
  - Flask-CORS (/rltoken/CHZYO1DIKPi5ZxcPy3dgiA)
  - AirBnB clone RESTful API (/rltoken/HxC-AJeiTbj9H9Bi2vPQVQ)

# **Learning Objectives**

At the end of this project, you are expected to be able to explain to anyone (/rltoken/vLhVARZfglisDgl2CcYBpw), without the help of Google:

## General

- · What REST means
- · What API means
- · What CORS means
- What is an API
- What is a REST API
- What are other type of APIs
- Which is the HTTP method to retrieve resource(s)
- Which is the HTTP method to create a resource
- Which is the HTTP method to update resource
- Which is the HTTP method to delete resource
- How to request REST API

# Requirements

## **Python Scripts**

- Allowed editors: vi, vim, emacs
- All your files will be interpreted/compiled on Ubuntu 20.04 LTS using python3 (version 3.8.5)
- All your files should end with a new line
- The first line of all your files should be exactly #!/usr/bin/python3
- A README.md file, at the root of the folder of the project, is mandatory
- Your code should use the pycodestyle (version 2.7.\*)
- All your files must be executable
- The length of your files will be tested using wc
- All your modules should have documentation (python3 -c

```
'print(__import__("my_module").__doc__)')
```

- All your classes should have documentation (python3 -c
   'print( import ("my module").MyClass. doc )')
- All your functions (inside and outside a class) should have documentation (python3 -c

```
'print(__import__("my_module").my_function.__doc__)' and python3 -c
'print( import ("my module").MyClass.my function. doc )')
```

• A documentation is not a simple word, it's a real sentence explaining what's the purpose of the module, class or method (the length of it will be verified)

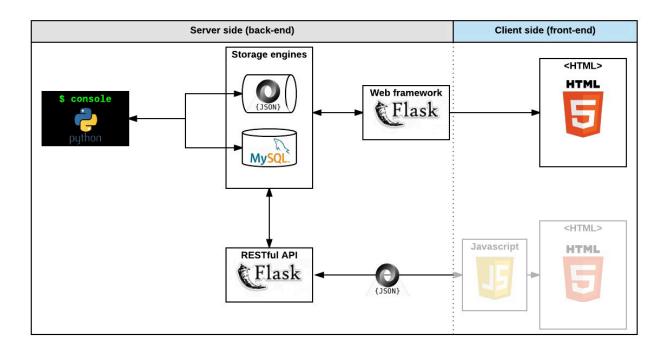
# Python Unit Tests

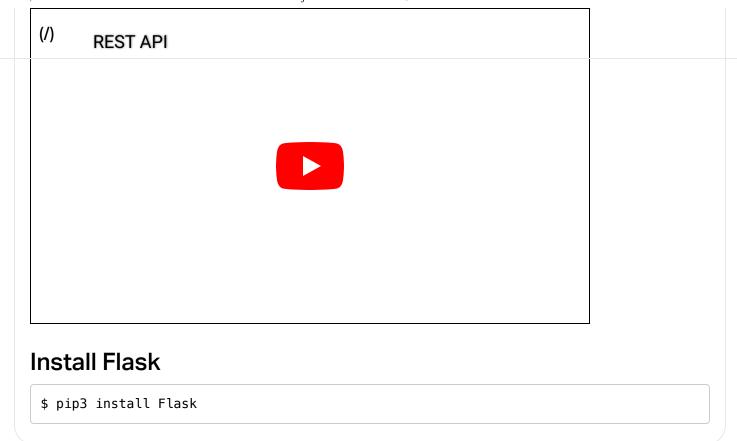
- Allowed editors: vi, vim, emacs
- All your files should end with a new line
- All your test files should be inside a folder tests
- You have to use the unittest module (/rltoken/LTMtjq0RnyYyDrSNB28sMQ)
- All your test files should be python files (extension: .py)
- All your test files and folders should start by test\_
- Your file organization in the tests folder should be the same as your project: ex: for models/base\_model.py , unit tests must be in: tests/test\_models/test\_base\_model.py
- All your tests should be executed by using this command: python3 -m unittest discover tests
- You can also test file by file by using this command: python3 -m unittest tests/test\_models/test\_base\_model.py
- We strongly encourage you to work together on test cases, so that you don't miss any edge cases

## **GitHub**

There should be one project repository per group. If you clone/fork/whatever a project repository with the same name before the second deadline, you risk a 0% score.

## More Info





## **Tasks**

#### 0. Restart from scratch!

Level: 0 Auto review

No no no! We are already too far in the project to restart everything.

But once again, let's work on a new codebase.

For this project you will fork this codebase (https://github.com/alexaorrico/AirBnB\_clone\_v2.git):

- Update the repository name to holbertonschool-AirBnB\_clone\_v3
- Update the README.md:
  - Add yourself as an author of the project
  - Add new information about your new contribution
  - Make it better!
- If you're the owner of this codebase, create a new repository called holbertonschool— AirBnB\_clone\_v3 and copy over all files from holbertonschool—AirBnB\_clone\_v2

#### Repo:

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- Code language: python (project based)

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2 online checks totalling 10 points about Python programming

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## Task excluded from copyright check

Show (/tasks/19568) Edit (/tasks/19568/edit) Test correction Done by Copy to another project

Export checks to JSON | Import checks from JSON

>\_ Get a sandbox

#### 1. Never fail!

Level: 0

Auto review



Since the beginning we've been using the unittest module, but do you know why unittests are so important? Because when you add a new feature, you refactor a piece of code, etc... you want to be sure you didn't break anything.

At Holberton, we have a lot of tests, and they all pass! Just for the Intranet itself, there are:

- 5,213 assertions (as of 08/20/2018)
- 13,061 assertions (as of 01/25/2021)

The following requirements **must** be met for your project:

- all current tests must pass (don't delete them...)
- add new tests as much as you can (tests are mandatory for some tasks)

guillaume@ubuntu:~/AirBnB\_v3\$ python3 -m unittest discover tests 2>&1 | tail -1 OK

guillaume@ubuntu:~/AirBnB\_v3\$ HBNB\_ENV=test HBNB\_MYSQL\_USER=hbnb\_test HBNB\_MYSQL\_PWD =hbnb\_test\_pwd HBNB\_MYSQL\_HOST=localhost HBNB\_MYSQL\_DB=hbnb\_test\_db HBNB\_TYPE\_STORAG E=db python3 -m unittest discover tests 2>&1 /dev/null | tail -n 1 OK

guillaume@ubuntu:~/AirBnB\_v3\$

- GitHub repository: holbertonschool-AirBnB clone v3
- Code language: python (project based)

9 online checks totalling 26 points about Python programming

#### Task excluded from copyright check

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Export checks to JSON	Import checks from JS	SON	ndbox	

### 2. Code review

Level: 0

Manual review

Like "tests", code review is the base of all software development.

All companies are using this "feature" to improve the codebase, but also the group dynamic. For example, at Zenly (/rltoken/QSFjhn49V-PPpW1at1bTGg), the iOS team does a code review everyday at 5pm with the entire team.

#### What is a code review?

Code review helps developers learn the code base, as well as help them learn new technologies and techniques that grow their skill sets.

When a developer is finished working on an issue, another developer looks over the code and considers questions like:

- Are there any obvious logic errors in the code?
- Looking at the requirements, are all cases fully implemented?
- Are the new automated tests sufficient for the new code? Do existing automated tests need to be rewritten to account for changes in the code?
- Does the new code conform to existing style guidelines?

#### As references:

- Why code reviews matter (and actually save time!) (/rltoken/I5Kd0UCfzppHYOheO9np6w)
- Code Review Best Practices (/rltoken/wggkCUJ-JzN2zZLSap5A w)
- GitHub code review tool (/rltoken/zDP0LJmDM5OBMm 3P9EtrQ)
- Code Review on GitHub (/rltoken/E3hTBfVz9SfwC3EwgiTTLA)
- Effective pull requests and other good practices for teams using GitHub (/rltoken/WGoARsciXtbll9KpVEFWQw)
- Merging vs. Rebasing (/rltoken/MGSOwpo0fOPYEPNeKLUdsA)

For this project, you will need to review a peer's pull request on the branch storage get count (which will be made for question 3), and then accept the pull request, with your review in the comments.

#### What we expect:

 a file code\_review.txt, containing the GitHub username of the student you reviewed (ex: If you did the review of JohnDoe, code\_review.txt must contain JohnDoe)



• The code review must be done on GitHub, in the comments for the pull request:

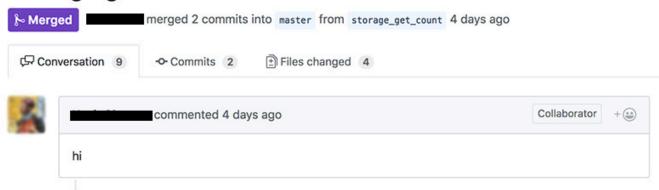
(/)

- the pull request must be created from the branch storage\_get\_count by a peer
- o only the reviewer can approve the pull request
- don't delete the branch storage\_get\_count after approval
- The comments must contain at *least* one useful comment:
  - o questions about the piece of code, if it's difficult to understand
  - o style issues
  - error handling
  - duplicate code
  - o potential bugs
  - o potential efficiency issues
  - typographical errors

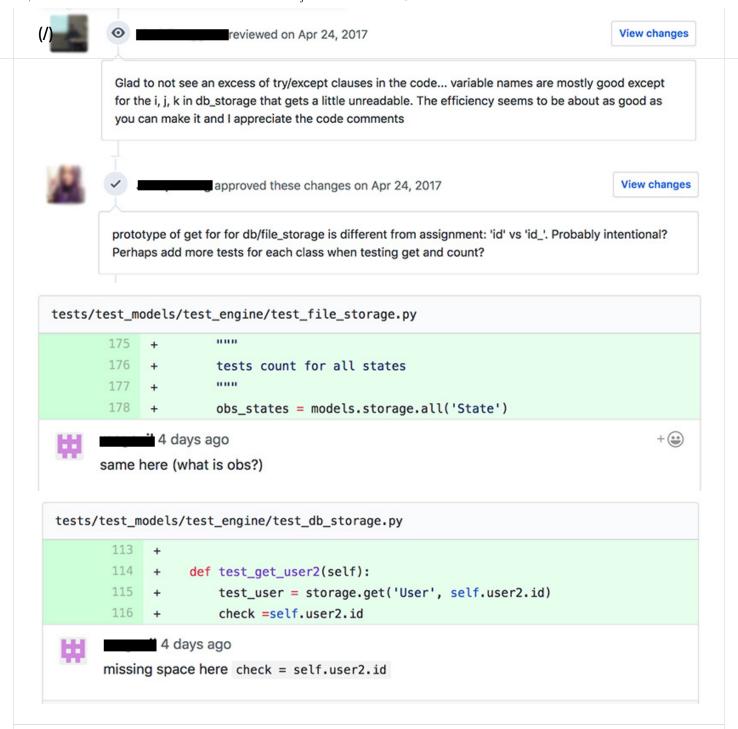
We are all human, we all make mistakes, typos, etc... another developer will always find something in your code.

## **Examples of bad reviews**

# Storage get count #1



## **Examples of good reviews**



- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: code\_review.txt
- Code language: python (project based)

8 online checks totalling 23 points about Python programming

Task excluded from copyright check

Show (/tasks/19570) Edit (/tasks/19570/edit)		Test correction	Done by	Copy to another project
Export checks to JSO	Import checks from JS	SON		

## 3. Improve storage

Level: 0

Auto review

Update DBStorage and FileStorage, adding two new methods. **All changes should be done in the branch storage\_get\_count**:

A method to retrieve one object:

- Prototype: def get(self, cls, id):
  - o cls:class
  - o id: string representing the object ID
- Returns the object based on the class and its ID, or None if not found

A method to count the number of objects in storage:

- Prototype: def count(self, cls=None):
  - o cls: class (optional)
- Returns the number of objects in storage matching the given class. If no class is passed, returns the count of all objects in storage.

Don't forget to add new tests for these 2 methods on each storage engine.

```
gwillaume@ubuntu:~/AirBnB_v3$ cat test_get_count.py
#!/usr/bin/python3
""" Test .get() and .count() methods
from models import storage
from models.state import State
print("All objects: {}".format(storage.count()))
print("State objects: {}".format(storage.count(State)))
first_state_id = list(storage.all(State).values())[0].id
print("First state: {}".format(storage.get(State, first_state_id)))
quillaume@ubuntu:~/AirBnB v3$
guillaume@ubuntu:~/AirBnB_v3$ HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd H
BNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE=db ./test_get_c
ount.py
All objects: 1013
State objects: 27
First state: [State] (f8d21261-3e79-4f5c-829a-99d7452cd73c) {'name': 'Colorado', 'up
dated at': datetime.datetime(2017, 3, 25, 2, 17, 6), 'created at': datetime.datetime
(2017, 3, 25, 2, 17, 6), '_sa_instance_state': <sqlalchemy.orm.state.InstanceState o
bject at 0x7fc0103a8e80>, 'id': 'f8d21261-3e79-4f5c-829a-99d7452cd73c'}
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ ./test_get_count.py
All objects: 19
State objects: 5
First state: [State] (af14c85b-172f-4474-8a30-d4ec21f9795e) {'updated_at': datetime.
datetime(2017, 4, 13, 17, 10, 22, 378824), 'name': 'Arizona', 'id': 'af14c85b-172f-4
474-8a30-d4ec21f9795e', 'created_at': datetime.datetime(2017, 4, 13, 17, 10, 22, 378
763)}
guillaume@ubuntu:~/AirBnB_v3$
```

For this task, you **must** make a pull request on GitHub.com, and ask at least one of your peer to review and merge it.

Please do not delete this branch, a manual review for grading will be done using this branch.

### Repo:

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: models/engine/db\_storage.py, models/engine/file\_storage.py, tests/test\_models/test\_engine/test\_db\_storage.py, tests/test\_models/test\_engine/test\_file\_storage.py
- Code language: python (project based)

**16 online checks** totalling 24 points about *Python programming* 

Show (/tasks/19571) Edit (/tasks/19571/edit) Test correction Done by Copy to another project

Export checks to JSON Import checks from JSON >\_ Get a sandbox

## 4. Status of your API

Level: 0

Auto review

It's time to start your API!

Your first endpoint (route) will be to return the status of your API:

```
guillaume@ubuntu:~/AirBnB_v3$ HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd H
BNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE=db HBNB_API_HOS
T=0.0.0.0 HBNB_API_PORT=5000 python3 -m api.v1.app
    * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
...
```

#### In another terminal:

```
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/status
{
    "status": "OK"
}
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET -s http://0.0.0.0:5000/api/v1/status -vvv
2>&1 | grep Content-Type
< Content-Type: application/json
guillaume@ubuntu:~/AirBnB_v3$</pre>
```

Magic right? (No need to have a pretty rendered output, it's a JSON, only the structure is important)

#### Ok, let starts:

- Create a folder api at the root of the project with an empty file \_\_init\_\_.py
- Create a folder v1 inside api:
  - create an empty file \_\_init\_\_.py
  - create a file app.py:
    - create a variable app , instance of Flask
    - import storage from models
    - import app\_views from api.v1.views
    - register the blueprint app\_views to your Flask instance app
    - declare a method to handle @app.teardown\_appcontext that calls storage.close()
    - inside if \_\_name\_\_ == "\_\_main\_\_":, run your Flask server (variable app) with:
      - host = environment variable HBNB API HOST or 0.0.0.0 if not defined
      - port = environment variable HBNB API PORT or 5000 if not defined
      - threaded=True
- Create a folder views inside v1:
  - o create a file \_\_init\_\_.py:
    - import Blueprint from flask doc (/rltoken/7utDLJwGL8gmzG3S2bs4Ag)
    - create a variable app\_views which is an instance of Blueprint (url prefix must be /api/v1)



(/)

- below the above line for app\_views , add a wildcard import of everything in the package api.v1.views.index => PEP8 will complain about it, don't worry, it's normal and this file (v1/views/\_\_init\_\_.py) won't be check. Placing the import declaration here will avoid circular import errors later.
- create a file index.py
  - import app\_views from api.v1.views
  - create a route /status on the object app\_views that returns a JSON: "status":"OK" (see example)

### Repo:

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/\_\_init\_\_.py, api/v1/\_\_init\_\_.py, api/v1/views/\_\_init\_\_.py, api/v1/views/index.py, api/v1/app.py
- Code language: python (project based)

## 10 online checks totalling 13 points about *Python programming*

```
Show (/tasks/19572) Edit (/tasks/19572/edit) Test correction Done by Copy to another project

Export checks to JSON Import checks from JSON >_ Get a sandbox
```

#### 5. Some stats?

Level: 0

Auto review

Create an endpoint that retrieves the number of each objects by type:

- In api/v1/views/index.py
- Route: /api/v1/stats
- You must use the newly added count() method from storage

```
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/stats
{
    "amenities": 47,
    "cities": 36,
    "places": 154,
    "reviews": 718,
    "states": 27,
    "users": 31
}
guillaume@ubuntu:~/AirBnB_v3$
```

(No need to have a pretty rendered output, it's a JSON, only the structure is important)

### Repo:

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/index.py
- Code language: python (project based)

### 9(hline checks totalling 11 points about Python programming

Show (/tasks/19573)	Edit (/tasks/19573/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	ON	ndbox	

#### 6. Not found

Level: 0 Auto review

Designers are really creative when they have to design a "404 page", a "Not found"... 34 brilliantly designed 404 error pages (/rltoken/8y7GgrPmjVcq-vZoeQ60yQ)

Today it's different, because you won't use HTML and CSS, but JSON!

In api/v1/app.py, create a handler for 404 errors that returns a JSON-formatted 404 status code response. The content should be: "error": "Not found"

```
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/nop
  "error": "Not found"
}
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/nop -vvv
    Trying 0.0.0.0...
* TCP NODELAY set
* Connected to 0.0.0.0 (127.0.0.1) port 5000 (#0)
> GET /api/v1/nop HTTP/1.1
> Host: 0.0.0.0:5000
> User-Agent: curl/7.51.0
> Accept: */*
* HTTP 1.0, assume close after body
< HTTP/1.0 404 NOT FOUND
< Content-Type: application/json
< Content-Length: 27
< Server: Werkzeug/0.12.1 Python/3.4.3
< Date: Fri, 14 Apr 2017 23:43:24 GMT
<
  "error": "Not found"
quillaume@ubuntu:~/AirBnB v3$
```

#### Repo:

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/app.py
- Code language: python (project based)

**9 online checks** totalling 11 points about *Python programming* 



Show (/tasks/19574)	Edit (/tasks/19574/edit)	Tes	t correction	Done	by	Copy to another project
Export checks to JSON	Import checks from JS	ON	>_ Get a sar	ndbox		

7. State

Level: 0

Auto review

Create a new view for State objects that handles all default RESTFul API actions:

- In the file api/v1/views/states.py
- You must use to\_dict() to retrieve an object into a valid JSON
- Update api/v1/views/\_\_init\_\_.py to import this new file

Retrieves the list of all State objects: GET /api/v1/states

Retrieves a State object: GET /api/v1/states/<state\_id>

• If the state\_id is not linked to any State object, raise a 404 error

Deletes a State object:: DELETE /api/v1/states/<state\_id>

- If the state\_id is not linked to any State object, raise a 404 error
- Returns an empty dictionary with the status code 200

Creates a State: POST /api/v1/states

- You must use request .get\_json from Flask to transform the HTTP body request to a dictionary
- If the HTTP body request is not valid JSON, raise a 400 error with the message Not a JSON
- If the dictionary doesn't contain the key name, raise a 400 error with the message Missing name
- Returns the new State with the status code 201

Updates a State object: PUT /api/v1/states/<state\_id>

- If the state\_id is not linked to any State object, raise a 404 error
- You must use request \_get\_json from Flask to transform the HTTP body request to a dictionary
- If the HTTP body request is not valid JSON, raise a 400 error with the message Not a JSON
- Update the State object with all key-value pairs of the dictionary.
- Ignore keys: id , created\_at and updated\_at
- Returns the State object with the status code 200

```
pwillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/states/
  {
    "__class__": "State",
    "created_at": "2017-04-14T00:00:02",
    "id": "8f165686-c98d-46d9-87d9-d6059ade2d99",
    "name": "Louisiana",
    "updated at": "2017-04-14T00:00:02"
  },
    "__class__": "State",
    "created at": "2017-04-14T16:21:42",
    "id": "1a9c29c7-e39c-4840-b5f9-74310b34f269",
    "name": "Arizona",
    "updated_at": "2017-04-14T16:21:42"
  },
. . .
guillaume@ubuntu:~/AirBnB_v3$
quillaume@ubuntu:~/AirBnB v3$ curl -X GET http://0.0.0.0:5000/api/v1/states/8f165686
-c98d-46d9-87d9-d6059ade2d99
  " class ": "State",
  "created_at": "2017-04-14T00:00:02",
  "id": "8f165686-c98d-46d9-87d9-d6059ade2d99",
  "name": "Louisiana",
  "updated_at": "2017-04-14T00:00:02"
}
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X POST http://0.0.0.0:5000/api/v1/states/ -H "Co
ntent-Type: application/json" -d '{"name": "California"}' -vvv
   Trying 0.0.0.0...
* TCP NODELAY set
* Connected to 0.0.0.0 (127.0.0.1) port 5000 (#0)
> POST /api/v1/states/ HTTP/1.1
> Host: 0.0.0.0:5000
> User-Agent: curl/7.51.0
> Accept: */*
> Content-Type: application/json
> Content-Length: 22
* upload completely sent off: 22 out of 22 bytes
* HTTP 1.0, assume close after body
< HTTP/1.0 201 CREATED
< Content-Type: application/json
< Content-Length: 195
< Server: Werkzeug/0.12.1 Python/3.4.3
< Date: Sat, 15 Apr 2017 01:30:27 GMT
<
  "__class__": "State",
  "created at": "2017-04-15T01:30:27.557877",
  "id": "feadaa73-9e4b-4514-905b-8253f36b46f6",
```

https://intranet.hbtn.io/projects/2131

```
"name": "California",
(/)"updated at": "2017-04-15T01:30:27.558081"
* Curl http done: called premature == 0
* Closing connection 0
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X PUT http://0.0.0.0:5000/api/v1/states/feadaa73
-9e4b-4514-905b-8253f36b46f6 -H "Content-Type: application/json" -d '{"name": "Calif
ornia is so cool"}'
  " class ": "State",
  "created_at": "2017-04-15T01:30:28",
  "id": "feadaa73-9e4b-4514-905b-8253f36b46f6",
  "name": "California is so cool",
  "updated at": "2017-04-15T01:51:08.044996"
guillaume@ubuntu:~/AirBnB_v3$
quillaume@ubuntu:~/AirBnB v3$ curl -X GET http://0.0.0.0:5000/api/v1/states/feadaa73
-9e4b-4514-905b-8253f36b46f6
  "__class__": "State",
  "created at": "2017-04-15T01:30:28",
  "id": "feadaa73-9e4b-4514-905b-8253f36b46f6",
  "name": "California is so cool",
  "updated_at": "2017-04-15T01:51:08"
}
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X DELETE http://0.0.0.0:5000/api/v1/states/feada
a73-9e4b-4514-905b-8253f36b46f6
quillaume@ubuntu:~/AirBnB v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/states/feadaa73
-9e4b-4514-905b-8253f36b46f6
{
  "error": "Not found"
}
quillaume@ubuntu:~/AirBnB v3$
```

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/states.py, api/v1/views/\_\_init\_\_.py
- Code language: python (project based)

## **19 online checks** totalling 25 points about *Python programming*

Show (/tasks/19575)	Edit (/tasks/19575/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	ON >_ Get a sar	ndbox	

## 8(Æity

Level: 0

**Auto review** 

Same as State, create a new view for City objects that handles all default RESTFul API actions:

- In the file api/v1/views/cities.py
- You must use to dict() to serialize an object into valid JSON
- Update api/v1/views/\_\_init\_\_.py to import this new file

Retrieves the list of all City objects of a State: GET /api/v1/states/<state\_id>/cities

• If the state\_id is not linked to any State object, raise a 404 error

Retrieves a City object.: GET /api/v1/cities/<city\_id>

• If the city\_id is not linked to any City object, raise a 404 error

Deletes a City object: DELETE /api/v1/cities/<city\_id>

- If the city\_id is not linked to any City object, raise a 404 error
- Returns an empty dictionary with the status code 200

Creates a City: POST /api/v1/states/<state\_id>/cities

- You must use request \_j son from Flask to transform the HTTP body request to a dictionary
- If the state\_id is not linked to any State object, raise a 404 error
- If the HTTP body request is not a valid JSON, raise a 400 error with the message Not a JSON
- If the dictionary doesn't contain the key name, raise a 400 error with the message Missing name
- Returns the new City with the status code 201

Updates a City object: PUT /api/v1/cities/<city\_id>

- If the city\_id is not linked to any City object, raise a 404 error
- You must use request get ison from Flask to transform the HTTP body request to a dictionary
- If the HTTP request body is not valid JSON, raise a 400 error with the message Not a JSON
- Update the City object with all key-value pairs of the dictionary
- Ignore keys: id , state\_id , created\_at and updated\_at
- Returns the City object with the status code 200

```
gwillaume@ubuntu:~/AirBnB_v3$ curl –X GET http://0.0.0.0:5000/api/v1/states/not_an_i
  "error": "Not found"
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/states/2b9a4627
-8a9e-4f32-a752-9a84fa7f4efd/cities
  {
    "__class__": "City",
    "created at": "2017-03-25T02:17:06",
    "id": "1da255c0-f023-4779-8134-2b1b40f87683",
    "name": "New Orleans",
    "state_id": "2b9a4627-8a9e-4f32-a752-9a84fa7f4efd",
    "updated at": "2017-03-25T02:17:06"
 },
    "__class__": "City",
    "created_at": "2017-03-25T02:17:06",
    "id": "45903748-fa39-4cd0-8a0b-c62bfe471702",
    "name": "Lafayette",
    "state_id": "2b9a4627-8a9e-4f32-a752-9a84fa7f4efd",
    "updated_at": "2017-03-25T02:17:06"
 },
    "__class__": "City",
    "created_at": "2017-03-25T02:17:06",
    "id": "e4e40a6e-59ff-4b4f-ab72-d6d100201588",
    "name": "Baton rouge",
    "state_id": "2b9a4627-8a9e-4f32-a752-9a84fa7f4efd",
    "updated at": "2017-03-25T02:17:06"
 }
1
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/cities/1da255c0
-f023-4779-8134-2b1b40f87683
  "__class__": "City",
  "created at": "2017-03-25T02:17:06",
 "id": "1da255c0-f023-4779-8134-2b1b40f87683",
 "name": "New Orleans",
  "state_id": "2b9a4627-8a9e-4f32-a752-9a84fa7f4efd",
  "updated at": "2017-03-25T02:17:06"
}
quillaume@ubuntu:~/AirBnB v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X POST http://0.0.0.0:5000/api/v1/states/2b9a462
7-8a9e-4f32-a752-9a84fa7f4efd/cities -H "Content-Type: application/json" -d '{"nam
e": "Alexandria"}' -vvv
    Trying 0.0.0.0...
* TCP NODELAY set
* Connected to 0.0.0.0 (127.0.0.1) port 5000 (#0)
```

https://intranet.hbtn.io/projects/2131

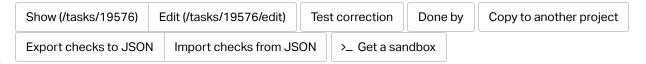
```
> POST /api/v1/states/2b9a4627-8a9e-4f32-a752-9a84fa7f4efd/cities/ HTTP/1.1
⟨√) Host: 0.0.0.0:5000
> User-Agent: curl/7.51.0
> Accept: */*
> Content-Type: application/json
> Content-Length: 22
* upload completely sent off: 22 out of 22 bytes
* HTTP 1.0, assume close after body
< HTTP/1.0 201 CREATED
< Content-Type: application/json
< Content-Length: 249
< Server: Werkzeug/0.12.1 Python/3.4.3
< Date: Sun, 16 Apr 2017 03:14:05 GMT
<
{
  "__class__": "City",
  "created at": "2017-04-16T03:14:05.655490",
  "id": "b75ae104-a8a3-475e-bf74-ab0a066ca2af",
  "name": "Alexandria",
  "state_id": "2b9a4627-8a9e-4f32-a752-9a84fa7f4efd",
  "updated at": "2017-04-16T03:14:05.655748"
}
* Curl_http_done: called premature == 0
* Closing connection 0
guillaume@ubuntu:~/AirBnB v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X PUT http://0.0.0.0:5000/api/v1/cities/b75ae104
-a8a3-475e-bf74-ab0a066ca2af -H "Content-Type: application/json" -d '{"name": "Bossi
er City"}'
  "__class__": "City",
  "created_at": "2017-04-16T03:14:06",
  "id": "b75ae104-a8a3-475e-bf74-ab0a066ca2af",
  "name": "Bossier City",
  "state_id": "2b9a4627-8a9e-4f32-a752-9a84fa7f4efd",
  "updated at": "2017-04-16T03:15:12.895894"
}
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/cities/b75ae104
-a8a3-475e-bf74-ab0a066ca2af
{
  "__class__": "City",
  "created at": "2017-04-16T03:14:06",
  "id": "b75ae104-a8a3-475e-bf74-ab0a066ca2af",
  "name": "Bossier City",
  "state_id": "2b9a4627-8a9e-4f32-a752-9a84fa7f4efd",
  "updated_at": "2017-04-16T03:15:13"
guillaume@ubuntu:~/AirBnB_v3$
guillaume@ubuntu:~/AirBnB_v3$ curl -X DELETE http://0.0.0.0:5000/api/v1/cities/b75ae
104-a8a3-475e-bf74-ab0a066ca2af
{}
```

https://intranet.hbtn.io/projects/2131

```
quillaume@ubuntu:~/AirBnB v3$
∰illaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/cities/b75ae104
-a8a3-475e-bf74-ab0a066ca2af
  "error": "Not found"
}
quillaume@ubuntu:~/AirBnB v3$
```

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/cities.py, api/v1/views/\_\_init\_\_.py
- Code language: python (project based)

## 20 online checks totalling 27 points about Python programming



## 9. Amenity

Level: 0

Auto review

Create a new view for Amenity objects that handles all default RESTFul API actions:

- In the file api/v1/views/amenities.py
- You must use to dict() to serialize an object into valid JSON
- Update api/v1/views/\_\_init\_\_.py to import this new file

Retrieves the list of all Amenity objects: GET /api/v1/amenities

Retrieves a Amenity object: GET /api/v1/amenities/<amenity id>

• If the amenity\_id is not linked to any Amenity object, raise a 404 error

Deletes a Amenity object: DELETE /api/v1/amenities/<amenity id>

- If the amenity\_id is not linked to any Amenity object, raise a 404 error
- Returns an empty dictionary with the status code 200

Creates a Amenity: POST /api/v1/amenities

- You must use request.get\_json from Flask to transform the HTTP request to a dictionary
- If the HTTP request body is not valid JSON, raise a 400 error with the message Not a JSON
- If the dictionary doesn't contain the key name, raise a 400 error with the message Missing name
- Returns the new Amenity with the status code 201

Updates a Amenity object: PUT /api/v1/amenities/<amenity\_id>

- If the amenity\_id is not linked to any Amenity object, raise a 404 error
- You must use request.get\_json from Flask to transform the HTTP request to a dictionary
- If the HTTP request body is not valid JSON, raise a 400 error with the message Not a JSON
- Update the Amenity object with all key-value pairs of the dictionary

- Ignore keys: id , created\_at and updated\_at
- (/) Returns the Amenity object with the status code 200

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/amenities.py, api/v1/views/\_\_init\_\_.py
- Code language: python (project based)

### 19 online checks totalling 25 points about Python programming

Show (/tasks/19577)	Edit (/tasks/19577/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	ON >_ Get a sar	ndbox	

10. User

Level: 0

**Auto review** 

Create a new view for User object that handles all default RESTFul API actions:

- In the file api/v1/views/users.py
- You must use to\_dict() to retrieve an object into a valid JSON
- Update api/v1/views/\_\_init\_\_.py to import this new file

Retrieves the list of all User objects: GET /api/v1/users

Retrieves a User object: GET /api/v1/users/<user\_id>

If the user\_id is not linked to any User object, raise a 404 error

Deletes a User object:: DELETE /api/v1/users/<user\_id>

- If the user\_id is not linked to any User object, raise a 404 error
- Returns an empty dictionary with the status code 200

Creates a User: POST /api/v1/users

- You must use request .get\_json from Flask to transform the HTTP body request to a dictionary
- If the HTTP body request is not valid JSON, raise a 400 error with the message Not a JSON
- If the dictionary doesn't contain the key email, raise a 400 error with the message Missing email
- If the dictionary doesn't contain the key password , raise a 400 error with the message Missing password
- Returns the new User with the status code 201.

Updates a User object: PUT /api/v1/users/<user\_id>

- If the user\_id is not linked to any User object, raise a 404 error
- You must use request \_get\_json from Flask to transform the HTTP body request to a dictionary
- If the HTTP body request is not valid JSON, raise a 400 error with the message Not a JSON
- Update the User object with all key-value pairs of the dictionary
- Ignore keys: id , email , created\_at and updated\_at
- Returns the User object with the status code 200

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/users.py, api/v1/views/\_\_init\_\_.py
- Code language: python (project based)

## 20 online checks totalling 26 points about Python programming

Show (/tasks/19578)	Edit (/tasks/19578/edit)	Test correction	Done by	Copy to another project
Export checks to JSOI	Import checks from JS	SON	ndbox	

## 11. Place

Level: 0

**Auto review** 

Create a new view for Place objects that handles all default RESTFul API actions:

- In the file api/v1/views/places.py
- You must use to\_dict() to retrieve an object into a valid JSON
- Update api/v1/views/\_\_init\_\_.py to import this new file

Retrieves the list of all Place objects of a City: GET /api/v1/cities/<city\_id>/places

• If the city\_id is not linked to any City object, raise a 404 error

Retrieves a Place object.: GET /api/v1/places/<place\_id>

If the place\_id is not linked to any Place object, raise a 404 error

Deletes a Place object: DELETE /api/v1/places/<place\_id>

- If the place\_id is not linked to any Place object, raise a 404 error
- Returns an empty dictionary with the status code 200

Creates a Place: POST /api/v1/cities/<city\_id>/places

- You must use request.get\_json from Flask to transform the HTTP request to a dictionary
- If the city\_id is not linked to any City object, raise a 404 error
- If the HTTP request body is not valid JSON, raise a 400 error with the message Not a JSON
- If the dictionary doesn't contain the key user\_id , raise a 400 error with the message Missing user\_id
- If the user\_id is not linked to any User object, raise a 404 error
- If the dictionary doesn't contain the key name, raise a 400 error with the message Missing name
- Returns the new Place with the status code 201

Updates a Place object: PUT /api/v1/places/<place\_id>

- If the place\_id is not linked to any Place object, raise a 404 error
- You must use request.get\_json from Flask to transform the HTTP request to a dictionary
- If the HTTP request body is not valid JSON, raise a 400 error with the message Not a JSON
- Update the Place object with all key-value pairs of the dictionary
- Ignore keys: id , user\_id , city\_id , created\_at and updated\_at
- Returns the Place object with the status code 200

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/places.py, api/v1/views/\_\_init\_\_.py
- Code language: python (project based)

## **22 online checks** totalling 29 points about *Python programming*

Show (/tasks/19579)	Edit (/tasks/19579/edit)	Test correction	Done	e by	Copy to another project
Export checks to JSON	Import checks from JS	ON >_ Get a	sandbox		

#### 12. Reviews

Level: 0

Auto review

Create a new view for Review object that handles all default RESTFul API actions:

- In the file api/v1/views/places\_reviews.py
- You must use to\_dict() to retrieve an object into valid JSON
- Update api/v1/views/\_\_init\_\_.py to import this new file

Retrieves the list of all Review objects of a Place: GET /api/v1/places/<place\_id>/reviews

If the place\_id is not linked to any Place object, raise a 404 error

Retrieves a Review object.: GET /api/v1/reviews/<review\_id>

If the review\_id is not linked to any Review object, raise a 404 error

Deletes a Review object: DELETE /api/v1/reviews/<review\_id>

- If the review\_id is not linked to any Review object, raise a 404 error
- Returns an empty dictionary with the status code 200

Creates a Review: POST /api/v1/places/<place\_id>/reviews

- You must use request.get\_json from Flask to transform the HTTP request to a dictionary
- If the place\_id is not linked to any Place object, raise a 404 error
- If the HTTP body request is not valid JSON, raise a 400 error with the message Not a JSON
- If the dictionary doesn't contain the key user\_id , raise a 400 error with the message Missing user\_id
- If the user id is not linked to any User object, raise a 404 error
- If the dictionary doesn't contain the key text, raise a 400 error with the message Missing text
- Returns the new Review with the status code 201

Updates a Review object: PUT /api/v1/reviews/<review\_id>

- If the review\_id is not linked to any Review object, raise a 404 error
- You must use request.get\_json from Flask to transform the HTTP request to a dictionary
- If the HTTP request body is not valid JSON, raise a 400 error with the message Not a JSON
- Update the Review object with all key-value pairs of the dictionary
- Ignore keys: id , user\_id , place\_id , created\_at and updated\_at
- Returns the Review object with the status code 200

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/places\_reviews.py, api/v1/views/\_\_init\_\_.py
- Code language: python (project based)

## 22 online checks totalling 29 points about Python programming

Show (/tasks/19581)	Edit (/tasks/19581/edit)	Test correction	Done by	Copy to another project
Export checks to JSOI	Import checks from JS	SON	ndbox	

## 13. HTTP access control (CORS)

Level: 0 Auto review

A resource makes a cross-origin HTTP request when it requests a resource from a different domain, or port, than the one the first resource itself serves.

Read the full definition here (/rltoken/0Kp03yl3mti4AcER1lbAVg)

Why do we need this?

Because you will soon start allowing a web client to make requests your API. If your API doesn't have a correct CORS setup, your web client won't be able to access your data.

With Flask, it's really easy, you will use the class CORS of the module flask\_cors.

How to install it: \$ pip3 install flask\_cors

Update api/v1/app.py to create a CORS instance allowing: /\* for 0.0.0.0

You will update it later when you will deploy your API to production.

Now you can see this HTTP Response Header: < Access-Control-Allow-Origin: 0.0.0.0

```
puillaume@ubuntu:~/AirBnB_v3$ curl -X GET http://0.0.0.0:5000/api/v1/cities/1da255c0
-f023-4779-8134-2b1b40f87683 -vvv
    Trying 0.0.0.0...
* TCP NODELAY set
* Connected to 0.0.0.0 (127.0.0.1) port 5000 (#0)
> GET /api/v1/states/2b9a4627-8a9e-4f32-a752-9a84fa7f4efd/cities/1da255c0-f023-4779-
8134-2b1b40f87683 HTTP/1.1
> Host: 0.0.0.0:5000
> User-Agent: curl/7.51.0
> Accept: */*
* HTTP 1.0, assume close after body
< HTTP/1.0 200 0K
< Content-Type: application/json
< Access-Control-Allow-Origin: 0.0.0.0
< Content-Length: 236
< Server: Werkzeug/0.12.1 Python/3.4.3
< Date: Sun, 16 Apr 2017 04:20:13 GMT
<
{
  "__class__": "City",
  "created_at": "2017-03-25T02:17:06",
  "id": "1da255c0-f023-4779-8134-2b1b40f87683",
  "name": "New Orleans",
  "state id": "2b9a4627-8a9e-4f32-a752-9a84fa7f4efd",
  "updated_at": "2017-03-25T02:17:06"
}
* Curl_http_done: called premature == 0
* Closing connection 0
guillaume@ubuntu:~/AirBnB_v3$
```

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/app.py
- Code language: python (project based)

#### **8 online checks** totalling 11 points about *Python programming*

Show (/tasks/19582) Edit (/tasks/19582/edit) Test correction Done by Copy to another project

Export checks to JSON Import checks from JSON >\_ Get a sandbox

## X. Pagination

Level: 1

#### Repo:

• GitHub repository: holbertonschool-AirBnB clone v3

https://intranet.hbtn.io/projects/2131

• File: 16

(/) Code language: python (project based)

#### 0 online checks

Show (/tasks/19586) Edit (/tasks/19586/edit) Test correction Done by Copy to another project

Export checks to JSON Import checks from JSON

## 14. Place - Amenity

Level: 1 Auto review

Create a new view for the link between Place objects and Amenity objects that handles all default RESTFul API actions:

- In the file api/v1/views/places amenities.py
- You must use to\_dict() to retrieve an object into a valid JSON
- Update api/v1/views/\_\_init\_\_.py to import this new file
- Depending of the storage:
  - DBStorage: list, create and delete Amenity objects from amenities relationship
  - FileStorage: list, add and remove Amenity ID in the list amenity\_ids of a Place object

Retrieves the list of all Amenity objects of a Place: GET /api/v1/places/<place\_id>/amenities

If the place\_id is not linked to any Place object, raise a 404 error

Deletes a Amenity object to a Place: DELETE /api/v1/places/<place\_id>/amenities/<amenity\_id>

- If the place id is not linked to any Place object, raise a 404 error
- If the amenity\_id is not linked to any Amenity object, raise a 404 error
- If the Amenity is not linked to the Place before the request, raise a 404 error
- Returns an empty dictionary with the status code 200

Link a Amenity object to a Place: POST /api/v1/places/<place\_id>/amenities/<amenity\_id>

- No HTTP body needed
- If the place id is not linked to any Place object, raise a 404 error
- If the amenity\_id is not linked to any Amenity object, raise a 404 error
- If the Amenity is already linked to the Place, return the Amenity with the status code 200
- Returns the Amenity with the status code 201

### Repo:

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/places\_amenities.py, api/v1/views/\_\_init\_\_.py
- Code language: python (project based)

**17 online checks** totalling 20 points about *Python programming* 

Show (/tasks/19580)	Edit (/tasks/19580/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	ON >_ Get a sar	ndbox	
			J	

## 15. Security improvements!

Level: 1

Auto review

Currently, the User object is designed to store the user password in cleartext.

It's super bad!

To avoid that, improve the User object:

- Update the method to\_dict() of BaseModel to remove the password key except when it's used by FileStorage to save data to disk. Tips: default parameters
- Each time a new User object is created or password updated, the password is hashed to a MD5 (/rltoken/Brsva-5VAnrPZFTwKDx32A) value
- In the database for DBStorage, the password stored is now hashed to a MD5 value
- In the file for FileStorage, the password stored is now hashed to a MD5 value

## Repo:

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: models/base\_model.py, models/user.py
- Code language: python (project based)

## **7 online checks** totalling 9 points about *Python programming*

Show (/tasks/19583)	Edit (/tasks/19583/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	ON >_ Get a sar	ndbox	

#### 16. Search

Level: 1 | Auto review

For the moment, the only way to list Place objects is via GET /api/v1/cities/<city\_id>/places.

Good, but not enough...

Update api/v1/views/places.py to add a new endpoint: POST /api/v1/places\_search that retrieves all Place objects depending of the JSON in the body of the request.

The JSON can contain 3 optional keys:

• states: list of State ids

• cities: list of City ids

• amenities: list of Amenity ids

## Search rules:

If the HTTP request body is not valid JSON, raise a 400 error with the message Not a JSON

https://intranet.hbtn.io/projects/2131

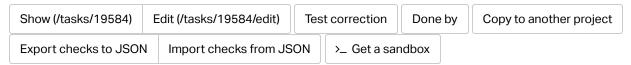
- If the JSON body is empty or each list of all keys are empty: retrieve all Place objects
- (/) If states list is not empty, results should include all Place objects for each State id listed
  - If cities list is not empty, results should include all Place objects for each City id listed
  - Keys states and cities are inclusive. Search results should include all Place objects in storage related to each City in every State listed in states, plus every City listed individually in cities, *unless* that City was already included by states.
    - Context:
      - State A has 2 cities A1 and A2
      - State B has 3 cities B1, B2 and B3
      - A1 has 1 place
      - A2 has 2 places
      - B1 has 3 places
      - B2 has 4 places
      - B3 has 5 places
    - Search: states = State A and cities = B2
    - Result: all 4 places from the city B2 and the place from the city A1 and the 2 places of the city
       A2 (because they are part of State A) => 7 places returned
  - If amenities list is not empty, limit search results to only Place objects having all Amenity ids listed
  - The key amenities is exclusive, acting as a filter on the results generated by states and cities, or on all Place if states and cities are both empty or missing.
  - Results will only include Place objects having all listed amenities . If a Place doesn't have even one of these amenities , it won't be retrieved.

```
gwillaume@ubuntu:~/AirBnB_v3$ curl -X POST http://0.0.0.0:5000/api/v1/places_search
\frac{\nabla f}{-H} "Content-Type: application/json" -d '{"states": ["2b9a4627-8a9e-4f32-a752-9a84fa7
f4efd", "459e021a-e794-447d-9dd2-e03b7963f7d2"], "cities": ["5976f0e7-5c5f-4949-aae0
-90d68fd239c0"]}'
 {
    "__class__": "Place",
    "created at": "2017-03-25T02:17:06",
    "id": "dacec983-cec4-4f68-bd7f-af9068a305f5",
    "name": "The Lynn House",
    "city_id": "5976f0e7-5c5f-4949-aae0-90d68fd239c0",
    "user id": "3ea61b06-e22a-459b-bb96-d900fb8f843a",
    "description": "Our place is 2 blocks from Vista Park (Farmer's Market), Histori
c Warren Ballpark, and about 2 miles from Old Bisbee where there is shopping, dinin
g, and site seeing. We offer continental breakfast. You get the quiet life with grea
t mountain and garden views. This is a 100+ year old cozy home which has been on bot
h the Garden and Home tours. You have access to whole house, except for 1 restricted
area (She-Shack). Hosts are on site in a casita in the back from 8pm until 7am when
we are in town.<BR /><BR />our home has two bedrooms, one king and one queen. There
are 2 bathrooms, 1 1950's soak tub with shower and 1 with shower only. Guests have
access to the living/dining room area, and the kitchen (except for use of stove/ove
n). Each morning, coffee/tea, and muffins are ready for guests. A small frig is av
ailable in the dining room with water/juice and an area for guest items. 1 parking
space is directly across the street.",
    "number rooms": 2,
    "number bathrooms": 2,
    "max_guest": 4,
    "price_by_night": 82,
    "latitude": 31.4141,
    "longitude": -109.879,
    "updated_at": "2017-03-25T02:17:06"
  },
    "__class__": "Place",
    "created_at": "2017-03-25T12:17:06",
    "id": "85f979ad-a345-4190-9d1b-719bb3c642ba",
    "name": "Little blue House in New Orleans",
    "city id": "1da255c0-f023-4779-8134-2b1b40f87683",
    "user_id": "44b3ab44-4798-4a3a-9f72-ee1eeace4b33",
    "description": "Nice place closed to Bourbon street.",
    "number_rooms": 1,
    "number bathrooms": 1,
    "max_guest": 3,
    "price by night": 42,
    "latitude": 29.951065,
    "longitude": -90.071533,
    "updated_at": "2017-03-25T02:17:06"
 },
guillaume@ubuntu:~/AirBnB_v3$
```

https://intranet.hbtn.io/projects/2131 29/31

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/views/places.py
- Code language: python (project based)

#### 17 online checks totalling 23 points about Python programming



#### 17. Documentation

Level: 1 Manual review

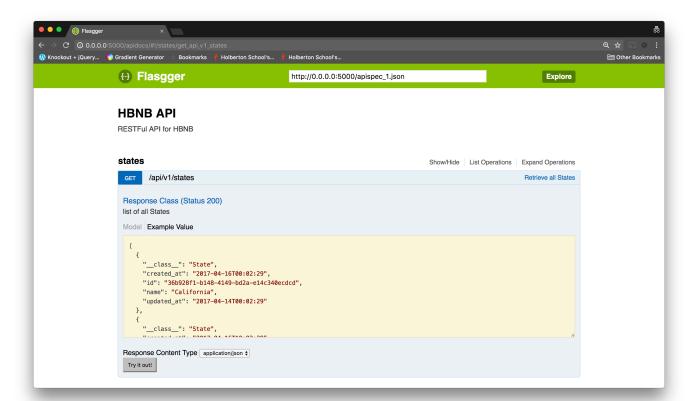
Nothing better than writing tests... and documentation!

But with Swagger (/rltoken/TitPF0B8BQO9QijVVr6Cmg), it's really easy!

You will use the Flask version of Swagger: Flasgger (/rltoken/2D0XUVa\_ra-K7Y-ZW87CSg)

How to install it: \$ pip3 install flasgger

Add comments on each endpoint of your API, so you can view the documentation in your browser: http://0.0.0.5000/apidocs



It is your responsibility to request a review for this task from a peer before the project's deadline. If no peers have been reviewed, you should request a review from a TA or staff member.

https://intranet.hbtn.io/projects/2131

- GitHub repository: holbertonschool-AirBnB\_clone\_v3
- File: api/v1/app.py, api/v1/views/\*
- Code language: python (project based)

## 7 online checks totalling 14 points about Python programming

Show (/tasks/19585) Edit (/tasks/19585/edit) Test correction Done by Copy to another project

Export checks to JSON Import checks from JSON >\_ Get a sandbox