(/)

You are currently observing these locations: MEX, MID, GDL

Change

AirBnB clone - Web framework

Novice

By: Guillaume, CTO at Holberton School

Weight: 2

Manual review behavior: Any student

Admin corner

Cohort adjustments

Preview manual QA review sheet (/corrections/preview_correct?project_id=2130)

Concepts

For this project, we expect you to look at this concept:

- AirBnB clone (/concepts/865)

Resources

Read or watch:

- What is a Web Framework? (/rltoken/qk3bO45DSY-P4qmdnEX93w)
- A Minimal Application (/rltoken/DCF-0NHTuXLykc1ijX5HVg)
- Routing (/rltoken/mfdHqOmCsS7veXQ3nK6PcQ) (*except "HTTP Methods"*)
- Rendering Templates (/rltoken/_dU2691FhIZB3IBtSF5nMg)
- Synopsis (/rltoken/V24BEPWuJb3yPZpOvA3-Zw)
- Variables (/rltoken/GKvdWdthYkstOwnDs9LJWg)
- Comments (/rltoken/qum7hVpPWLaqMZBQCpcRyA)
- Whitespace Control (/rltoken/LxOb-5Fe9bHvx0TguTDY9g)
- List of Control Structures (/rltoken/8D9OoDX5cYQOFXUqwAiCNw) (*read up to "Call"*)

- Flask (/rltoken/OMqE9vlalgkWcT_3fu4Hvg)
- Jinja (/rltoken/L3kYnmfrbc86Asb4JZq0rg)

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone (/rltoken/lVg3jl6IEzhNeQiHwhC-Fg), **without the help of Google**:

General

- What is a Web Framework
- How to build a web framework with Flask
- How to define routes in Flask
- What is a route
- How to handle variables in a route
- What is a template
- How to create a HTML response in Flask by using a template
- How to create a dynamic template (loops, conditions…)
- How to display in HTML data from a MySQL database

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)

HTML/CSS Files

- Allowed editors: `vi`, `vim`, `emacs`
- All your files should end with a new line
- A `README.md` file at the root of the folder of the project is mandatory

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- Your code should be W3C compliant and validate with W3C-Validator (/rltoken/BABHSFrobycuS0xRtRtXVQ) (except for jinja template)
- All your CSS files should be in the `styles` folder
- All your images should be in the `images` folder
- You are not allowed to use `!important` or `id` (`#...` in the CSS file)
- All tags must be in uppercase
- Current screenshots have been done on `Chrome 56.0.2924.87`.
- No cross browsers

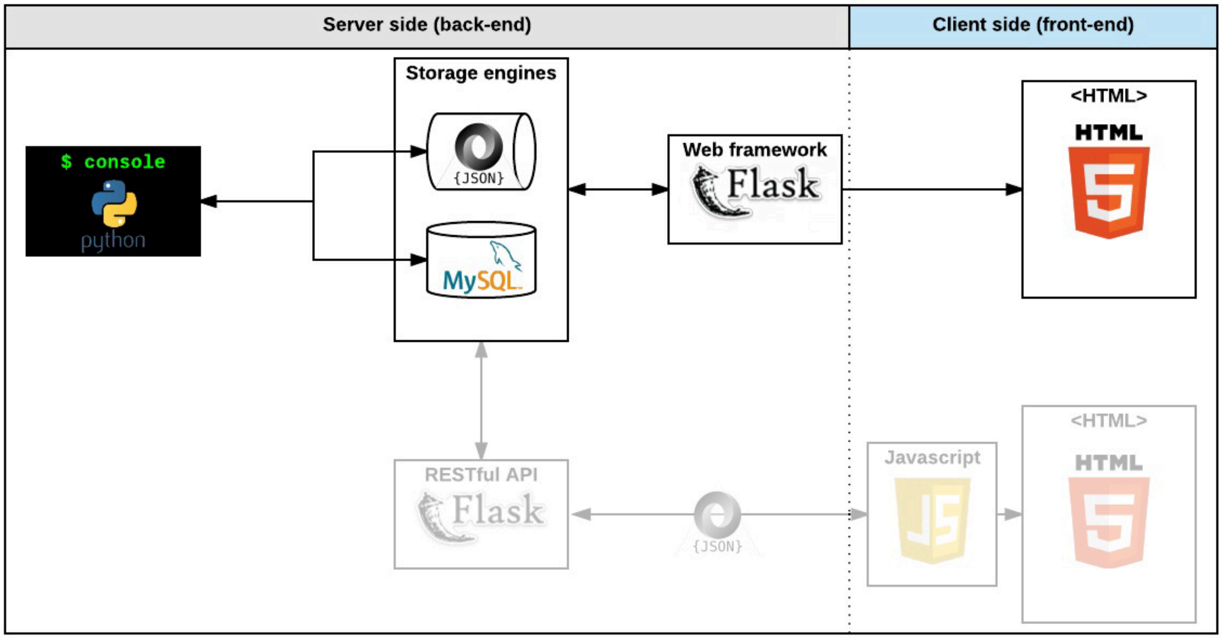
More Info

MySQL Default charset issues

- If you get Flask errors after executing the `curl ...` commands, it might be because of the `DEFAULT CHARSET`. If it's `DEFAULT CHARSET=latam1`, you might want to change it to `DEFAULT CHARSET=utf8mb4`, either on the server's config file (/etc/mysql/my.cnf commonly) orm on the CREATE DATABASE statement.

Install Flask

```
$ pip3 install Flask
```



NOTE:

- Try setting FLASK configuration `debug` to `False` iIf you get the following error when running the checker:

```
 - [Got]
rpc error: code = 2 desc = oci runtime error: exec failed: container_linux.go:290: s
tarting container process caused "process_linux.go:111: decoding init error from pip
e caused \"read parent: connection reset by peer\""


(222 chars long)
```

Manual QA Review

It is your responsibility to request a review for this project 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.

Tasks

0. Hello Flask!

Level: 0 Auto review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0` , port `5000`
- Routes:
  - `/` : display "Hello HBNB!"
- You must use the option `strict_slashes=False` in your route definition

```
guillaume@ubuntu:~/AirBnB_v2$ python3 -m web_flask.0-hello_route
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000 ; echo "" | cat -e
Hello HBNB!$
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- Directory: `web_flask`
- File: `0-hello_route.py, __init__.py`
- Code language: `python` (project based)

10 online checks totalling 11 points about *Python programming*

Show (/tasks/19555) | Edit (/tasks/19555/edit) | Test correction | Done by | Copy to another project

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

1. HBNB

Level: 0 | Auto review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0`, port `5000`
- Routes:
  - `/`: display “Hello HBNB!”
  - `/hbnb`: display “HBNB”
- You must use the option `strict_slashes=False` in your route definition

```
guillaume@ubuntu:~/AirBnB_v2$ python3 -m web_flask.1-hbnb_route
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000/hbnb ; echo "" | cat -e
HBNB$
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- Directory: `web_flask`

- File: `1-hbnb_route.py`
- Code language: `python` (project based)

9 online checks totalling 11 points about *Python programming*

Show (/tasks/19556) | Edit (/tasks/19556/edit) | Test correction | Done by | Copy to another project

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

2. C is fun!

Level: 0 **Auto review**

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0` , port `5000`
- Routes:
  - `/` : display "Hello HBNB!"
  - `/hbnb` : display "HBNB"
  - `/c/<text>` : display "C " followed by the value of the `text` variable (replace underscore `_` symbols with a space ` `)
- You must use the option `strict_slashes=False` in your route definition

```
guillaume@ubuntu:~/AirBnB_v2$ python3 -m web_flask.2-c_route
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000/c/is_fun ; echo "" | cat -e
C is fun$
guillaume@ubuntu:~$ curl 0.0.0.0:5000/c/cool ; echo "" | cat -e
C cool$
guillaume@ubuntu:~$ curl 0.0.0.0:5000/c
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<title>404 Not Found</title>
<h1>Not Found</h1>
<p>The requested URL was not found on the server.  If you entered the URL manually p
lease check your spelling and try again.</p>
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- Directory: `web_flask`
- File: `2-c_route.py`
- Code language: `python` (project based)

11 online checks totalling 11 points about *Python programming*

Show (/tasks/19557) Edit (/tasks/19557/edit) Test correction Done by Copy to another project

(/)

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

3. Python is cool!

Level: 0 **Auto review**

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0` , port `5000`
- Routes:
  - `/` : display “Hello HBNB!”
  - `/hbnb` : display “HBNB”
  - `/c/<text>` : display “C ”, followed by the value of the `text` variable (replace underscore `_` symbols with a space)
  - `/python/<text>` : display “Python ”, followed by the value of the `text` variable (replace underscore `_` symbols with a space)
    - The default value of `text` is “is cool”
- You must use the option `strict_slashes=False` in your route definition

```
guillaume@ubuntu:~/AirBnB_v2$ python3 -m web_flask.3-python_route
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl -Ls 0.0.0.0:5000/python/is_magic ; echo "" | cat -e
Python is magic$
guillaume@ubuntu:~$ curl -Ls 0.0.0.0:5000/python ; echo "" | cat -e
Python is cool$
guillaume@ubuntu:~$ curl -Ls 0.0.0.0:5000/python/ ; echo "" | cat -e
Python is cool$
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- Directory: `web_flask`
- File: `3-python_route.py`
- Code language: `python` (project based)

12 online checks totalling 13 points about *Python programming*

Show (/tasks/19558) Edit (/tasks/19558/edit) Test correction Done by Copy to another project

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

4. Is it a number?

Level: 0 Auto review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0`, port `5000`
- Routes:
  - `/`: display "Hello HBNB!"
  - `/hbnb`: display "HBNB"
  - `/c/<text>`: display "C ", followed by the value of the `text` variable (replace underscore `_` symbols with a space)
  - `/python/<text>`: display "Python ", followed by the value of the `text` variable (replace underscore `_` symbols with a space)
    - The default value of `text` is "is cool"
  - `/number/<n>`: display "`n` is a number" **only** if `n` is an integer
- You must use the option `strict_slashes=False` in your route definition

```
guillaume@ubuntu:~/AirBnB_v2$ python3 -m web_flask.4-number_route
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number/89 ; echo "" | cat -e
89 is a number$
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number/8.9
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<title>404 Not Found</title>
<h1>Not Found</h1>
<p>The requested URL was not found on the server.  If you entered the URL manually p
lease check your spelling and try again.</p>
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number/python
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<title>404 Not Found</title>
<h1>Not Found</h1>
<p>The requested URL was not found on the server.  If you entered the URL manually p
lease check your spelling and try again.</p>
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- Directory: `web_flask`
- File: `4-number_route.py`
- Code language: `python` (project based)

11 online checks totalling 12 points about *Python programming*

Show (/tasks/19559) Edit (/tasks/19559/edit) Test correction Done by Copy to another project

(/)

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

5. Number template

Level: 0 Auto review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0` , port `5000`
- Routes:
  - `/` : display “Hello HBNB!”
  - `/hbnb` : display “HBNB”
  - `/c/<text>` : display “C ”, followed by the value of the `text` variable (replace underscore `_` symbols with a space)
  - `/python/<text>` : display “Python ”, followed by the value of the `text` variable (replace underscore `_` symbols with a space)
    - The default value of `text` is “is cool”
  - `/number/<n>` : display “ `n` is a number” **only** if `n` is an integer
  - `/number_template/<n>` : display a HTML page **only** if `n` is an integer:
    - `H1` tag: “Number: `n` ” inside the tag `BODY`
- You must use the option `strict_slashes=False` in your route definition

```
guillaume@ubuntu:~/AirBnB_v2$ python3 -m web_flask.5-number_template
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number_template/89 ; echo ""
<!DOCTYPE html>
<HTML lang="en">
    <HEAD>
        <TITLE>HBNB</TITLE>
    </HEAD>
    <BODY>
        <H1>Number: 89</H1>
    </BODY>
</HTML>
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number_template/8.9
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<title>404 Not Found</title>
<h1>Not Found</h1>
<p>The requested URL was not found on the server.  If you entered the URL manually p
lease check your spelling and try again.</p>
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number_template/python
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<title>404 Not Found</title>
<h1>Not Found</h1>
<p>The requested URL was not found on the server.  If you entered the URL manually p
lease check your spelling and try again.</p>
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- Directory: `web_flask`
- File: `5-number_template.py, templates/5-number.html`
- Code language: `python` (project based)

12 online checks totalling 12 points about *Python programming*

Show (/tasks/19560) Edit (/tasks/19560/edit) Test correction Done by Copy to another project

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

6. Odd or even?

Level: 0 Auto review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0` , port `5000`
- Routes:
    - `/` : display “Hello HBNB!”
    - `/hbnb` : display “HBNB”
    - `/c/<text>` : display “C ”, followed by the value of the `text` variable (replace underscore `_` symbols with a space)
    - `/python/<text>` : display “Python ”, followed by the value of the `text` variable (replace underscore `_` symbols with a space)

        - The default value of `text` is “is cool”
    - `/number/<n>` : display “ `n` is a number” **only** if `n` is an integer
    - `/number_template/<n>` : display a HTML page **only** if `n` is an integer:
        - `H1` tag: “Number: `n` ” inside the tag `BODY`
    - `/number_odd_or_even/<n>` : display a HTML page **only** if `n` is an integer:
        - `H1` tag: “Number: `n` is `even|odd` ” inside the tag `BODY`
- You must use the option `strict_slashes=False` in your route definition

```
guillaume@ubuntu:~/AirBnB_v2$ python3 -m web_flask.6-number_odd_or_even
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number_odd_or_even/89 ; echo ""
<!DOCTYPE html>
<HTML lang="en">
    <HEAD>
        <TITLE>HBNB</TITLE>
    </HEAD>
    <BODY>
        <H1>Number: 89 is odd</H1>
    </BODY>
</HTML>
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number_odd_or_even/32 ; echo ""
<!DOCTYPE html>
<HTML lang="en">
    <HEAD>
        <TITLE>HBNB</TITLE>
    </HEAD>
    <BODY>
        <H1>Number: 32 is even</H1>
    </BODY>
</HTML>
guillaume@ubuntu:~$ curl 0.0.0.0:5000/number_odd_or_even/python
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<title>404 Not Found</title>
<h1>Not Found</h1>
<p>The requested URL was not found on the server.  If you entered the URL manually p
lease check your spelling and try again.</p>
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- Directory: `web_flask`
- File: `6-number_odd_or_even.py, templates/6-number_odd_or_even.html`
- Code language: `python` (project based)

12/online checks totalling 12 points about *Python programming*

Show (/tasks/19561) | Edit (/tasks/19561/edit) | Test correction | Done by | Copy to another project

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

7. Improve engines

Level: 0 **Auto review**

Before using Flask to display our HBNB data, you will need to update some part of our engine:

Update `FileStorage`: (`models/engine/file_storage.py`)

- Add a public method `def close(self):`: call `reload()` method for deserializing the JSON file to objects

Update `DBStorage`: (`models/engine/db_storage.py`)

- Add a public method `def close(self):`: call `remove()` method on the private session attribute (`self.__session`) tips (/rltoken/Ev0jeeBWNlaFqPAFe-rZKA) or `close()` on the class `Session` tips (/rltoken/d7XXqTOZnNCO47YVh5ZziQ)

Update `State`: (`models/state.py`) - If it's not already present

- If your storage engine is not `DBStorage`, add a public getter method `cities` to return the list of `City` objects from `storage` linked to the current `State`

```
guillaume@ubuntu:~/AirBnB_v2$ 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 python3
>>> from models import storage
>>> from models.state import State
>>> len(storage.all(State))
5
>>> len(storage.all(State))
5
>>> # Time to insert new data!
```

At this moment, in another tab:

```
guillaume@ubuntu:~/AirBnB_v2$ echo 'INSERT INTO `states` VALUES ("421a55f1-7d82-45d9
-b54c-a76916479545", "Alabama", "2017-03-25 19:42:40","2017-03-25 19:42:40");' | mys
ql -uroot -p hbnb_dev_db
Enter password:
guillaume@ubuntu:~/AirBnB_v2$
```

And let's go back the Python console:

```
>>> # Time to insert new data!
>>> len(storage.all(State))
5
>>> # normal: the SQLAlchemy didn't reload his `Session`
>>> # to force it, you must remove the current session to create a new one:
>>> storage.close()
>>> len(storage.all(State))
6
>>> # perfect!
```

And for the getter `cities` in the `State` model:

```
guillaume@ubuntu:~/AirBnB_v2$ cat main.py
#!/usr/bin/python3
"""
 Test cities access from a state
"""
from models import storage
from models.state import State
from models.city import City

"""
 Objects creations
"""
state_1 = State(name="California")
print("New state: {}".format(state_1))
state_1.save()
state_2 = State(name="Arizona")
print("New state: {}".format(state_2))
state_2.save()

city_1_1 = City(state_id=state_1.id, name="Napa")
print("New city: {} in the state: {}".format(city_1_1, state_1))
city_1_1.save()
city_1_2 = City(state_id=state_1.id, name="Sonoma")
print("New city: {} in the state: {}".format(city_1_2, state_1))
city_1_2.save()
city_2_1 = City(state_id=state_2.id, name="Page")
print("New city: {} in the state: {}".format(city_2_1, state_2))
city_2_1.save()


"""
 Verification
"""
print("")
all_states = storage.all(State)
for state_id, state in all_states.items():
    for city in state.cities:
        print("Find the city {} in the state {}".format(city, state))

guillaume@ubuntu:~/AirBnB_v2$
guillaume@ubuntu:~/AirBnB_v2$ rm file.json ; HBNB_TYPE_STORAGE=fs ./main.py
New state: [State] (5b8f1d55-e49c-44dd-ba6f-a3cf8489ae45) {'name': 'California', 'i
d': '5b8f1d55-e49c-44dd-ba6f-a3cf8489ae45', 'updated_at': datetime.datetime(2017, 1
2, 11, 19, 27, 52, 509954), 'created_at': datetime.datetime(2017, 12, 11, 19, 27, 5
2, 509950)}
New state: [State] (a5e5311a-3c19-4995-9485-32c74411b416) {'name': 'Arizona', 'id':
'a5e5311a-3c19-4995-9485-32c74411b416', 'updated_at': datetime.datetime(2017, 12, 1
1, 19, 27, 52, 510256), 'created_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 51
0252)}
New city: [City] (e3e36ded-fe56-44f5-bf08-8a27e2b30672) {'name': 'Napa', 'id': 'e3e3
6ded-fe56-44f5-bf08-8a27e2b30672', 'state_id': '5b8f1d55-e49c-44dd-ba6f-a3cf8489ae4
5', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 510797), 'created_at':
```

```
datetime.datetime(2017, 12, 11, 19, 27, 52, 510791)} in the state: [State] (5b8f1d55
-e49c-44dd-ba6f-a3cf8489ae45) {'name': 'California', 'id': '5b8f1d55-e49c-44dd-ba6f-
a3cf8489ae45', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 510038), 'c
reated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 509950)}
New city: [City] (12a58d70-e255-4c1e-8a68-7d5fb924d2d2) {'name': 'Sonoma', 'id': '12
a58d70-e255-4c1e-8a68-7d5fb924d2d2', 'state_id': '5b8f1d55-e49c-44dd-ba6f-a3cf8489ae
45', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 511437), 'created_a
t': datetime.datetime(2017, 12, 11, 19, 27, 52, 511432)} in the state: [State] (5b8f
1d55-e49c-44dd-ba6f-a3cf8489ae45) {'name': 'California', 'id': '5b8f1d55-e49c-44dd-b
a6f-a3cf8489ae45', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 51003
8), 'created_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 509950)}
New city: [City] (a693bdb9-e0ca-4521-adfd-e1a93c093b4b) {'name': 'Page', 'id': 'a693
bdb9-e0ca-4521-adfd-e1a93c093b4b', 'state_id': 'a5e5311a-3c19-4995-9485-32c74411b41
6', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 511873), 'created_at':
datetime.datetime(2017, 12, 11, 19, 27, 52, 511869)} in the state: [State] (a5e5311a
-3c19-4995-9485-32c74411b416) {'name': 'Arizona', 'id': 'a5e5311a-3c19-4995-9485-32c
74411b416', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 510373), 'crea
ted_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 510252)}

Find the city [City] (e3e36ded-fe56-44f5-bf08-8a27e2b30672) {'name': 'Napa', 'id':
'e3e36ded-fe56-44f5-bf08-8a27e2b30672', 'state_id': '5b8f1d55-e49c-44dd-ba6f-a3cf848
9ae45', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 510953), 'created_
at': datetime.datetime(2017, 12, 11, 19, 27, 52, 510791)} in the state [State] (5b8f
1d55-e49c-44dd-ba6f-a3cf8489ae45) {'name': 'California', 'id': '5b8f1d55-e49c-44dd-b
a6f-a3cf8489ae45', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 51003
8), 'created_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 509950)}
Find the city [City] (12a58d70-e255-4c1e-8a68-7d5fb924d2d2) {'name': 'Sonoma', 'id':
'12a58d70-e255-4c1e-8a68-7d5fb924d2d2', 'state_id': '5b8f1d55-e49c-44dd-ba6f-a3cf848
9ae45', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 511513), 'created_
at': datetime.datetime(2017, 12, 11, 19, 27, 52, 511432)} in the state [State] (5b8f
1d55-e49c-44dd-ba6f-a3cf8489ae45) {'name': 'California', 'id': '5b8f1d55-e49c-44dd-b
a6f-a3cf8489ae45', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 51003
8), 'created_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 509950)}
Find the city [City] (a693bdb9-e0ca-4521-adfd-e1a93c093b4b) {'name': 'Page', 'id':
'a693bdb9-e0ca-4521-adfd-e1a93c093b4b', 'state_id': 'a5e5311a-3c19-4995-9485-32c7441
1b416', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 512073), 'created_
at': datetime.datetime(2017, 12, 11, 19, 27, 52, 511869)} in the state [State] (a5e5
311a-3c19-4995-9485-32c74411b416) {'name': 'Arizona', 'id': 'a5e5311a-3c19-4995-9485
-32c74411b416', 'updated_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 510373),
'created_at': datetime.datetime(2017, 12, 11, 19, 27, 52, 510252)}
guillaume@ubuntu:~/AirBnB_v2$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- File: `models/engine/file_storage.py, models/engine/db_storage.py, models/state.py`
- Code language: `python` (project based)

5 online checks totalling 11 points about *Python programming*

Show (/tasks/19567) Edit (/tasks/19567/edit) Test correction Done by Copy to another project
(/)
Export checks to JSON Import checks from JSON >_ Get a sandbox

8. List of states

Level: 0 Auto review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0` , port `5000`
- You must use `storage` for fetching data from the storage engine (`FileStorage` or `DBStorage`) => `from models import storage` and `storage.all(...)`
- After each request you must remove the current SQLAlchemy Session:
  - Declare a method to handle `@app.teardown_appcontext`
  - Call in this method `storage.close()`
- Routes:
  - `/states_list` : display a HTML page: (inside the tag `BODY`)
    - `H1` tag: “States”
    - `UL` tag: with the list of all `State` objects present in `DBStorage` **sorted by `name`** (A->Z) tip (/rltoken/UVC1Bw_-nfa_0T2gv1MuQg)
      - `LI` tag: description of one `State` : `<state.id>: <B><state.name></B>`
- **NOTE: Students have reported that this one does not work - use the next on instead.** Import this 7-dump (https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/7-states_list.sql) to have some data
- Import this 100-dump (https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/100-hbnb.sql) to have some data
- You must use the option `strict_slashes=False` in your route definition

IMPORTANT

- Make sure you have a running and valid `setup_mysql_dev.sql` in your `AirBnB_clone_v2` repository (Task (/rltoken/-Sz0UGvAe4_SLfTbSXSbzg))
- Make sure all tables are created when you run `echo "quit" | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE=db ./console.py`

```
guillaume@ubuntu:~/AirBnB_v2$ curl -o 7-dump.sql "https://s3.eu-west-3.amazonaws.co
m/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/100-hbn
b.sql"
guillaume@ubuntu:~/AirBnB_v2$ cat 7-dump.sql | mysql -uroot -p
Enter password:
guillaume@ubuntu:~/AirBnB_v2$ 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 python3 -m w
eb_flask.7-states_list
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000/states_list ; echo ""
<!DOCTYPE html>
<HTML lang="en">
    <HEAD>
        <TITLE>HBNB</TITLE>
    </HEAD>
    <BODY>
        <H1>States</H1>
        <UL>

            <LI>421a55f4-7d82-47d9-b54c-a76916479545: <B>Alabama</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479546: <B>Arizona</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479547: <B>California</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479548: <B>Colorado</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479549: <B>Florida</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479550: <B>Georgia</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479551: <B>Hawaii</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479552: <B>Illinois</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479553: <B>Indiana</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479554: <B>Louisiana</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479555: <B>Minnesota</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479556: <B>Mississippi</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479557: <B>Oregon</B></LI>

        </UL>
    </BODY>
</HTML>
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- File: `web_flask/7-states_list.py, web_flask/templates/7-states_list.html`
- Code language: `python` (project based)

12 online checks totalling 16 points about *Python programming*

Show (/tasks/19562) (/) | Edit (/tasks/19562/edit) | Test correction | Done by | Copy to another project

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

9. Cities by states

Level: 0 | Auto review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0` , port `5000`
- You must use `storage` for fetching data from the storage engine (`FileStorage` or `DBStorage`) => `from models import storage` and `storage.all(...)`
- To load all cities of a `State` :
  - If your storage engine is `DBStorage` , you must use `cities` relationship
  - Otherwise, use the public getter method `cities`
- After each request you must remove the current SQLAlchemy Session:
  - Declare a method to handle `@app.teardown_appcontext`
  - Call in this method `storage.close()`
- Routes:
  - `/cities_by_states` : display a HTML page: (inside the tag `BODY`)
    - `H1` tag: “States”
    - `UL` tag: with the list of all `State` objects present in `DBStorage` **sorted by `name`** (A->Z) tip (/rltoken/UVC1Bw_-nfa_0T2gv1MuQg)
      - `LI` tag: description of one `State` : `<state.id>: <B><state.name></B> + UL` tag: with the list of `City` objects linked to the `State` **sorted by `name`** (A->Z)
        - `LI` tag: description of one `City` : `<city.id>: <B><city.name></B>`
- **NOTE: Students have reported that this one does not work - use the next on instead.** Import this 7-dump (https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/7-states_list.sql) to have some data
- Import this 100-dump (https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/100-hbnb.sql) to have some data
- You must use the option `strict_slashes=False` in your route definition

IMPORTANT

- Make sure you have a running and valid `setup_mysql_dev.sql` in your `AirBnB_clone_v2` repository (Task (/rltoken/gIfF4l2eWBO13bfNduSG4w))
- Make sure all tables are created when you run `echo "quit" | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE=db ./console.py`

```
guillaume@ubuntu:~/AirBnB_v2$ curl -o 7-dump.sql "https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/100-hbnb.sql"
guillaume@ubuntu:~/AirBnB_v2$ cat 7-dump.sql | mysql -uroot -p
Enter password:
guillaume@ubuntu:~/AirBnB_v2$ HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE=db python3 -m web_flask.8-cities_by_states
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000/cities_by_states ; echo ""
<!DOCTYPE html>
<HTML lang="en">
    <HEAD>
        <TITLE>HBNB</TITLE>
    </HEAD>
    <BODY>
        <H1>States</H1>
        <UL>

            <LI>421a55f4-7d82-47d9-b54c-a76916479545: <B>Alabama</B>
                <UL>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479545: <B>Akron</B></LI>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479545: <B>Babbie</B></LI>

                        <LI>541a55f4-7d82-47d9-b54c-a76916479545: <B>Calera</B></LI>

                        <LI>551a55f4-7d82-47d9-b54c-a76916479545: <B>Fairfield</B></
LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479546: <B>Arizona</B>
                <UL>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479546: <B>Douglas</B></LI
>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479546: <B>Kearny</B></LI>

                        <LI>541a55f4-7d82-47d9-b54c-a76916479546: <B>Tempe</B></LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479547: <B>California</B>
                <UL>

                        <LI>541a55f4-7d82-47d9-b54c-a76916479547: <B>Fremont</B></LI
>

                        <LI>551a55f4-7d82-47d9-b54c-a76916479547: <B>Napa</B></LI>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479547: <B>San Francisco</
B></LI>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479547: <B>San Jose</B></L
I>

```

```
                        <LI>561a55f4-7d82-47d9-b54c-a76916479547: <B>Sonoma</B></LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479548: <B>Colorado</B>
                <UL>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479548: <B>Denver</B></LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479549: <B>Florida</B>
                <UL>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479549: <B>Miami</B></LI>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479549: <B>Orlando</B></LI
>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479550: <B>Georgia</B>
                <UL>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479551: <B>Hawaii</B>
                <UL>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479551: <B>Honolulu</B></L
I>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479551: <B>Kailua</B></LI>

                        <LI>541a55f4-7d82-47d9-b54c-a76916479551: <B>Pearl city</B>
</LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479552: <B>Illinois</B>
                <UL>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479552: <B>Chicago</B></LI
>

                        <LI>561a55f4-7d82-47d9-b54c-a76916479552: <B>Joliet</B></LI>
                        <LI>541a55f4-7d82-47d9-b54c-a76916479552: <B>Naperville</B>
</LI>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479552: <B>Peoria</B></LI>

                        <LI>551a55f4-7d82-47d9-b54c-a76916479552: <B>Urbana</B></LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479553: <B>Indiana</B>
                <UL>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479554: <B>Louisiana</B>
                <UL>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479554: <B>Baton rouge</B>
</LI>

                        <LI>541a55f4-7d82-47d9-b54c-a76916479554: <B>Lafayette</B></
LI>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479554: <B>New Orleans</B>
</LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479555: <B>Minnesota</B>
                <UL>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479555: <B>Saint Paul</B>
</LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479556: <B>Mississippi</B>
                <UL>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479556: <B>Jackson</B></LI
>

                        <LI>541a55f4-7d82-47d9-b54c-a76916479556: <B>Meridian</B></L
I>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479556: <B>Tupelo</B></LI>

                </UL>
            </LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479557: <B>Oregon</B>
                <UL>

                        <LI>531a55f4-7d82-47d9-b54c-a76916479557: <B>Eugene</B></LI>

                        <LI>521a55f4-7d82-47d9-b54c-a76916479557: <B>Portland</B></L
I>

                </UL>
            </LI>

        </UL>
    </BODY>
</HTML>
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- File: `web_flask/8-cities_by_states.py, web_flask/templates/8-cities_by_states.html`
- Code language: `python` (project based)

14 online checks totalling 19 points about *Python programming*

Show (/tasks/19563) | Edit (/tasks/19563/edit) | Test correction | Done by | Copy to another project

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

10. States and State

Level: 0 | Auto review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0`, port `5000`
- You must use `storage` for fetching data from the storage engine (`FileStorage` or `DBStorage`) => `from models import storage` and `storage.all(...)`
- To load all cities of a `State`:
  - If your storage engine is `DBStorage`, you must use `cities` relationship
  - Otherwise, use the public getter method `cities`
- After each request you must remove the current SQLAlchemy Session:
  - Declare a method to handle `@app.teardown_appcontext`
  - Call in this method `storage.close()`
- Routes:
  - `/states`: display a HTML page: (inside the tag `BODY`)
    - `H1` tag: "States"

        - `UL` tag: with the list of all `State` objects present in `DBStorage` **sorted by `name`** (A->Z) tip (/rltoken/UVC1Bw_-nfa_0T2gv1MuQg)
            - `LI` tag: description of one `State`: `<state.id>: <B><state.name></B>`
    - `/states/<id>`: display a HTML page: (inside the tag `BODY`)
        - If a `State` object is found with this `id`:
            - `H1` tag: “State: ”
            - `H3` tag: “Cities:”
            - `UL` tag: with the list of `City` objects linked to the `State` **sorted by `name`** (A->Z)
                - `LI` tag: description of one `City`: `<city.id>: <B><city.name></B>`
        - Otherwise:
            - `H1` tag: “Not found!”
- You must use the option `strict_slashes=False` in your route definition
- **NOTE: Students have reported that this one does not work - use the next on instead.** Import this 7-dump (https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/7-states_list.sql) to have some data
- Import this 100-dump (https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/100-hbnb.sql) to have some data

IMPORTANT

- Make sure you have a running and valid `setup_mysql_dev.sql` in your `AirBnB_clone_v2` repository (Task (/rltoken/gIfF4l2eWBO13bfNduSG4w))
- Make sure all tables are created when you run `echo "quit" | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE=db ./console.py`

```
guillaume@ubuntu:~/AirBnB_v2$ curl -o 7-dump.sql "https://s3.eu-west-3.amazonaws.co
m/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/100-hbn
b.sql"
guillaume@ubuntu:~/AirBnB_v2$ cat 7-dump.sql | mysql -uroot -p
Enter password:
guillaume@ubuntu:~/AirBnB_v2$ 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 python3 -m w
eb_flask.9-states
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In another tab:

```
guillaume@ubuntu:~$ curl 0.0.0.0:5000/states ; echo ""
<!DOCTYPE html>
<HTML lang="en">
    <HEAD>
        <TITLE>HBNB</TITLE>
    </HEAD>
    <BODY>

        <H1>States</H1>
        <UL>

            <LI>421a55f4-7d82-47d9-b54c-a76916479545: <B>Alabama</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479546: <B>Arizona</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479547: <B>California</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479548: <B>Colorado</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479549: <B>Florida</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479550: <B>Georgia</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479551: <B>Hawaii</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479552: <B>Illinois</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479553: <B>Indiana</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479554: <B>Louisiana</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479555: <B>Minnesota</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479556: <B>Mississippi</B></LI>

            <LI>421a55f4-7d82-47d9-b54c-a76916479557: <B>Oregon</B></LI>

        </UL>

    </BODY>
</HTML>
guillaume@ubuntu:~$ curl 0.0.0.0:5000/states/421a55f4-7d82-47d9-b54c-a76916479552 ;
echo ""
<!DOCTYPE html>
<HTML lang="en">
    <HEAD>
        <TITLE>HBNB</TITLE>
    </HEAD>
    <BODY>

        <H1>State: Illinois</H1>
        <H3>Cities:</H3>
        <UL>
                <LI>521a55f4-7d82-47d9-b54c-a76916479552: <B>Chicago</B></LI>

                <LI>561a55f4-7d82-47d9-b54c-a76916479552: <B>Joliet</B></LI>

                <LI>541a55f4-7d82-47d9-b54c-a76916479552: <B>Naperville</B></LI>

                <LI>531a55f4-7d82-47d9-b54c-a76916479552: <B>Peoria</B></LI>

                <LI>551a55f4-7d82-47d9-b54c-a76916479552: <B>Urbana</B></LI>
        </UL>

    </BODY>
</HTML>
guillaume@ubuntu:~$ curl 0.0.0.0:5000/states/holberton ; echo ""
<!DOCTYPE html>
<HTML lang="en">
    <HEAD>
        <TITLE>HBNB</TITLE>
    </HEAD>
    <BODY>

        <H1>Not found!</H1>

    </BODY>
</HTML>
guillaume@ubuntu:~$
```

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- File: `web_flask/9-states.py, web_flask/templates/9-states.html`
- Code language: `python` (project based)

16 online checks totalling 15 points about *Python programming*

Show (/tasks/19564) | Edit (/tasks/19564/edit) | Test correction | Done by | Copy to another project

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

11. HBNB filters

Level: 0 | Manual review

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0` , port `5000`
- You must use `storage` for fetching data from the storage engine (`FileStorage` or `DBStorage`) => `from models import storage` and `storage.all(...)`
- To load all cities of a `State` :
  - If your storage engine is `DBStorage` , you must use `cities` relationship

    - Otherwise, use the public getter method `cities`
- After each request you must remove the current SQLAlchemy Session:
    - Declare a method to handle `@app.teardown_appcontext`
    - Call in this method `storage.close()`
- Routes:
    - `/hbnb_filters` : display a HTML page like `6-index.html` , which was done during the project 0x01. AirBnB clone - Web static (/rltoken/LSsy0WYsMdxl-zlZqbAthg)
        - Copy files `3-footer.css` , `3-header.css` , `4-common.css` and `6-filters.css` from `web_static/styles/` to the folder `web_flask/static/styles`
        - Copy files `icon.png` and `logo.png` from `web_static/images/` to the folder `web_flask/static/images`
        - Update `.popover` class in `6-filters.css` to allow scrolling in the popover and a max height of 300 pixels.
        - Use `6-index.html` content as source code for the template `10-hbnb_filters.html` :
            - Replace the content of the `H4` tag under each filter title (`H3` States and `H3` Amenities) by `&nbsp;`
        - `State` , `City` and `Amenity` objects must be loaded from `DBStorage` and **sorted by name** (A->Z)
- You must use the option `strict_slashes=False` in your route definition
- Import this 10-dump (https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/10-hbnb_filters.sql) to have some data

IMPORTANT

- Make sure you have a running and valid `setup_mysql_dev.sql` in your `AirBnB_clone_v2` repository (Task (/rltoken/gIfF4l2eWBO13bfNduSG4w))
- Make sure all tables are created when you run `echo "quit" | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE=db ./console.py`

```
guillaume@ubuntu:~/AirBnB_v2$ curl -o 10-dump.sql "https://s3.eu-west-3.amazonaws.co
m/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/10-hbnb_
filters.sql"
guillaume@ubuntu:~/AirBnB_v2$ cat 10-dump.sql | mysql -uroot -p
Enter password: 
guillaume@ubuntu:~/AirBnB_v2$ 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 python3 -m w
eb_flask.10-hbnb_filters
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In the browser:

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- File: `web_flask/10-hbnb_filters.py, web_flask/templates/10-hbnb_filters.html, web_flask/static/`

- Code language: `python` (project based)

(/)

11 online checks totalling 16 points about *Python programming*

Show (/tasks/19565) | Edit (/tasks/19565/edit) | Test correction | Done by | Copy to another project

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

12. HBNB is alive!

Level: 1 **Manual review**

Write a script that starts a Flask web application:

- Your web application must be listening on `0.0.0.0`, port `5000`
- You must use `storage` for fetching data from the storage engine (`FileStorage` or `DBStorage`) => `from models import storage` and `storage.all(...)`
- To load all cities of a `State`:
    - If your storage engine is `DBStorage`, you must use `cities` relationship
    - Otherwise, use the public getter method `cities`
- After each request you must remove the current SQLAlchemy Session:
    - Declare a method to handle `@app.teardown_appcontext`
    - Call in this method `storage.close()`
- Routes:
    - `/hbnb`: display a HTML page like `8-index.html`, done during the 0x01. AirBnB clone - Web static (/rltoken/LSsy0WYsMdxI-zlZqbAthg) project
        - Copy files `3-footer.css`, `3-header.css`, `4-common.css`, `6-filters.css` and `8-places.css` from `web_static/styles/` to the folder `web_flask/static/styles`
        - Copy all files from `web_static/images/` to the folder `web_flask/static/images`
        - Update `.popover` class in `6-filters.css` to enable scrolling in the popover and set max height to 300 pixels.
        - Update `8-places.css` to always have the price by night on the top right of each place element, and the name correctly aligned and visible (i.e. screenshots below)
        - Use `8-index.html` content as source code for the template `100-hbnb.html`:
            - Replace the content of the `H4` tag under each filter title (`H3` States and `H3` Amenities) by `&nbsp;`
            - Make sure all HTML tags from objects are correctly used (example: `<BR />` must generate a new line)
        - `State`, `City`, `Amenity` and `Place` objects must be loaded from `DBStorage` and **sorted by name** (A->Z)
- You must use the option `strict_slashes=False` in your route definition
- Import this 100-dump (https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/100-hbnb.sql) to have some data

IMPORTANT

- Make sure you have a running and valid `setup_mysql_dev.sql` in your `AirBnB_clone_v2` repository (Task (/rltoken/glfF4I2eWBO13bfNduSG4w))
- Make sure all tables are created when you run `echo "quit" | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db`

```
    HBNB_TYPE_STORAGE=db ./console.py
```

(/)

```
guillaume@ubuntu:~/AirBnB_v2$ curl -o 100-dump.sql "https://s3.eu-west-3.amazonaws.com/hbtn.intranet.project.files/holbertonschool-higher-level_programming+/290/100-hbnb.sql"
guillaume@ubuntu:~/AirBnB_v2$ cat 100-dump.sql | mysql -uroot -p
Enter password: 
guillaume@ubuntu:~/AirBnB_v2$ HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE=db python3 -m web_flask.100-hbnb
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
....
```

In the browser:

Repo:

- GitHub repository: `holbertonschool-AirBnB_clone_v2`
- File: `web_flask/100-hbnb.py, web_flask/templates/100-hbnb.html, web_flask/static/`
- Code language: `python` (project based)

12 online checks totalling 20 points about *Python programming*

Show (/tasks/19566) | Edit (/tasks/19566/edit) | Test correction | Done by | Copy to another project

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