(/)

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AirBnB clone - MySQL

↑ Amateur
♣ By: Guillaume
♦ Weight: 2
✓ Manual review behavior: Any student ②

Project to be done in teams of 2 people

> Admin corner

Cohort adjustments

Preview manual QA review sheet (/corrections/preview_correct?project_id=2198)

Background Context

Environment variables will be your best friend for this project!

- HBNB_ENV : running environment. It can be "dev" or "test" for the moment ("production" soon!)
- HBNB_MYSQL_USER: the username of your MySQL
- HBNB_MYSQL_PWD: the password of your MySQL
- HBNB_MYSQL_HOST: the hostname of your MySQL
- HBNB_MYSQL_DB: the database name of your MySQL
- HBNB_TYPE_STORAGE: the type of storage used. It can be "file" (using FileStorage) or db (using DBStorage)

Resources

Read or watch:

- cmd module (/rltoken/n2iuMmutfCZmeMqbeBnlaw)
- packages concept page
- unittest module (/rltoken/nUpQTzwnNi c8AlKoBdrmw)



- args/kwargs (/rltoken/m8vYyTQi5-raOlUJJ9Nltg)
- (/) SQLAlchemy tutorial (/rltoken/2DZHkwnlEmv4ly7hufh3Xg)
 - How To Create a New User and Grant Permissions in MySQL (/rltoken/OpbgfN52Xc5Vrwug9jAb5A)
 - Python3 and environment variables (/rltoken/VHWw0H0LGwlpUBCl1qkPSQ)
 - SQLAlchemy (/rltoken/3rDo_Lb9DFRufb4Zh3JbdQ)
 - MySQL 8.0 SQL Statement Syntax (/rltoken/9dZyqKjKVADhWytWrK8F6A)
 - AirBnB clone ORM (/rltoken/ZsjgMgJW7i6QXz6LIRP78Q)

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone (/rltoken/LAyje3OPhToMqWM-vuzUzA), without the help of Google:

General

- What is Unit testing and how to implement it in a large project
- What is *args and how to use it
- What is **kwargs and how to use it
- How to handle named arguments in a function
- How to create a MySQL database
- How to create a MySQL user and grant it privileges
- · What ORM means
- How to map a Python Class to a MySQL table
- · How to handle 2 different storage engines with the same codebase
- How to use environment variables

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/nUpQTzwnNi c8AlKoBdrmw)
- 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
- 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__)')
- We strongly encourage you to work together on test cases, so that you don't miss any edge cases

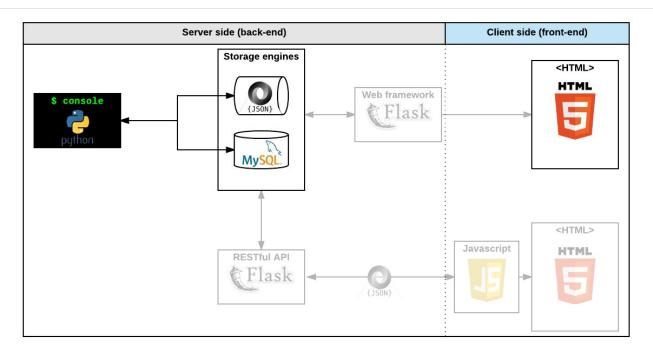
SQL Scripts

- Allowed editors: vi, vim, emacs
- All your files will be executed on Ubuntu 20.04 LTS using MySQL 8.0
- Your files will be executed with SQLAlchemy version 1.4.x
- All your files should end with a new line
- All your SQL queries should have a comment just before (i.e. syntax above)
- All your files should start by a comment describing the task
- All SQL keywords should be in uppercase (SELECT, WHERE ...)
- A README.md file, at the root of the folder of the project, is mandatory
- The length of your files will be tested using wc

GitHub

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

More Info





Comments for your SQL file:

```
$ cat my_script.sql
-- first 3 students in the Batch ID=3
-- because Batch 3 is the best!
SELECT id, name FROM students WHERE batch_id = 3 ORDER BY created_at DESC LIMIT 3;
$
```

Tasks

0. Fork me if you can!

Level: 0

Auto review

In the industry, you will work on an existing codebase 90% of the time. Your first thoughts upon looking at it might include:

- "Who did this code?"
- "How it works?"
- "Where are unittests?"
- "Where is this?"
- "Why did they do that like this?"
- "I don't understand anything."
- "... I will refactor everything..."

But the worst thing you could possibly do is to **redo everything**. Please don't do that! **Note: the existing codebase might be perfect, or it might have errors. Don't always trust the existing codebase!**

For this project you will fork this codebase (https://github.com/justinmajetich/AirBnB_clone.git):

- update the repository name (specified in the **section Repo**)
- update the README.md with your information but don't delete the initial authors

Repo:

- GitHub repository: holbertonschool-AirBnB_clone_v2
- Code language: python (project based)

2 online checks totalling 12 points about Python programming

Task excluded from copyright check

Show (/tasks/20394)	Edit (/tasks/20394/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	I Import checks from JS	ON >_ Get a sar	ndbox	

X. Fix me if you can!

Level: 0

Auto review

Do you remember the unittest module?

This codebase contains many test cases. Some are missing, but the ones included cover the basic functionality of the program.

guillaume@ubuntu:~/AirBnB_v2\$ python3 -m unittest discover tests 2>&1 | tail -1
FAILED (failures=6)
guillaume@ubuntu:~/AirBnB v2\$

AHHHHH 6 failures



Before you start adding new features, you must fix these unittests:

guillaume@ubuntu:~/AirBnB_v2\$ python3 -m unittest discover tests 2>&1 | tail -1
OK
guillaume@ubuntu:~/AirBnB_v2\$

So, how to fix a test?

- Fix the code and/or
- Fix the test => but be careful, don't forget to double check the requirements from 0x00. AirBnB clone
 - The console (/rltoken/pUSyXYZ82QL4q8lvsU-VMA)

All your unittests **must** pass without any errors at anytime in this project, **with each storage engine!**. Same for PEP8!

guillaume@ubuntu:~/AirBnB_v2\$ 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 | tail -1
OK
quillaume@ubuntu:~/AirBnB v2\$

Repo:

- GitHub repository: holbertonschool-AirBnB_clone_v2
- Code language: python (project based)

16 online checks totalling 36 points about *Python programming*

Show (/tasks/20395) Edit (/tasks/20395/edit) Test correction Done by Copy to another project

Export checks to JSON Import checks from JSON

1. Bug free!

Level: 0

Auto review

Do you remember the unittest module?

This codebase contains many test cases. Some are missing, but the ones included cover the basic functionality of the program.

guillaume@ubuntu:~/AirBnB_v2\$ python3 -m unittest discover tests 2>&1 /dev/null | ta
il -n 1
OK

guillaume@ubuntu:~/AirBnB_v2\$

All your unittests **must** pass without any errors at anytime in this project, **with each storage engine!**. Same for PEP8!

pyillaume@ubuntu:~/AirBnB_v2\$ 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_v2\$

Some tests won't be relevant for some type of storage, please skip them by using the skipIf feature of the Unittest module - 26.3.6. Skipping tests and expected failures (/rltoken/AldbsIVZtz1aJsSde2fVTg). Of course, the number of tests must be higher than the current number of tests, so if you decide to skip a test, you should write a new test!

How to test with MySQL?

First, you create a specific database for it (next tasks). After, you have to remember what the purpose of an unittest?

"Assert a current state (objects/data/database), do an action, and validate this action changed (or not) the state of your objects/data/database"

For example, "you want to validate that the create State name="California" command in the console will add a new record in your table states in your database", here steps for your unittest:

- get the number of current records in the table states (my using a MySQLdb for example but not SQLAlchemy (remember, you want to test if it works, so it's better to isolate from the system))
- execute the console command
- get (again) the number of current records in the table states (same method, with MySQLdb)
- if the difference is +1 => test passed

Repo:

- GitHub repository: holbertonschool-AirBnB clone v2
- Code language: python (project based)

16 online checks totalling 36 points about *Python programming*

Task excluded from copyright check

Show (/tasks/20401)	Edit (/tasks/20401/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	ON	ndbox	

2. Console improvements

Auto review

Level: 0

Update the def do_create(self, arg): function of your command interpreter (console.py) to allow for object creation with given parameters:

- Command syntax: create <Class name> <param 1> <param 2> <param 3>...
- Param syntax: <key name>=<value>
- Value syntax:
 - String: "<value>" => starts with a double quote

(/)

- any double guote inside the value must be escaped with a backslash \
- all underscores _ must be replace by spaces . Example: You want to set the string My
 little house to the attribute name, your command line must be
 name="My_little_house"
- o Float: <unit>.<decimal> => contains a dot .
- o Integer: <number> => default case
- If any parameter doesn't fit with these requirements or can't be recognized correctly by your program, it must be skipped

Don't forget to add tests for this new feature!

Also, this new feature will be tested here only with FileStorage engine.

```
guillaume@ubuntu:~/AirBnB_v2$ cat test_params_create
create State name="California"
create State name="Arizona"
all State
create Place city_id="0001" user_id="0001" name="My_little_house" number_rooms=4 num
ber bathrooms=2 max guest=10 price by night=300 latitude=37.773972 longitude=-122.43
1297
all Place
guillaume@ubuntu:~/AirBnB_v2$ cat test_params_create | ./console.py
(hbnb) d80e0344-63eb-434a-b1e0-07783522124e
(hbnb) 092c9e5d-6cc0-4eec-aab9-3c1d79cfc2d7
(hbnb) [[State] (d80e0344-63eb-434a-b1e0-07783522124e) {'id': 'd80e0344-63eb-434a-b1
e0-07783522124e', 'created_at': datetime.datetime(2017, 11, 10, 4, 41, 7, 842160),
'updated_at': datetime.datetime(2017, 11, 10, 4, 41, 7, 842235), 'name': 'Californi
a'}, [State] (092c9e5d-6cc0-4eec-aab9-3c1d79cfc2d7) {'id': '092c9e5d-6cc0-4eec-aab9-
3c1d79cfc2d7', 'created at': datetime.datetime(2017, 11, 10, 4, 41, 7, 842779), 'upd
ated_at': datetime.datetime(2017, 11, 10, 4, 41, 7, 842792), 'name': 'Arizona'}]
(hbnb) (hbnb) 76b65327-9e94-4632-b688-aaa22ab8a124
(hbnb) [[Place] (76b65327-9e94-4632-b688-aaa22ab8a124) {'number_bathrooms': 2, 'long
itude': -122.431297, 'city id': '0001', 'user id': '0001', 'latitude': 37.773972, 'p
rice_by_night': 300, 'name': 'My little house', 'id': '76b65327-9e94-4632-b688-aaa22
ab8a124', 'max_guest': 10, 'number_rooms': 4, 'updated_at': datetime.datetime(2017,
11, 10, 4, 41, 7, 843774), 'created_at': datetime.datetime(2017, 11, 10, 4, 41, 7, 8
43747)}]
(hbnb)
guillaume@ubuntu:~/AirBnB_v2$
```

Repo:

- GitHub repository: holbertonschool-AirBnB_clone_v2
- File: console.py, models/, tests/
- Code language: python (project based)

14 online checks totalling 22 points about *Python programming*

Show (/tasks/20396) Edit (/tasks/20396/edit) Test correction Done by Copy to another project

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

3. MySQL setup development

Level: 0

Auto review

Write a script that prepares a MySQL server for the project:

- A database hbnb_dev_db
- A new user hbnb_dev (in localhost)
- The password of hbnb_dev_should be set to hbnb_dev_pwd
- hbnb dev should have all privileges on the database hbnb dev db (and only this database)
- hbnb_dev should have SELECT privilege on the database performance_schema (and only this database)
- If the database hbnb_dev_db or the user hbnb_dev already exists, your script should not fail

```
guillaume@ubuntu:~/AirBnB_v2$ cat setup_mysql_dev.sql | mysql -hlocalhost -uroot -p
Enter password:
guillaume@ubuntu:~/AirBnB_v2$ echo "SHOW DATABASES;" | mysql -uhbnb_dev -p | grep hb
nb_dev_db
Enter password:
hbnb_dev_db
guillaume@ubuntu:~/AirBnB_v2$ echo "SHOW GRANTS FOR 'hbnb_dev'@'localhost';" | mysql
-uroot -p
Enter password:
Grants for hbnb_dev@localhost
GRANT USAGE ON *.* TO 'hbnb_dev'@'localhost'
GRANT SELECT ON `performance_schema`.* TO 'hbnb_dev'@'localhost'
GRANT ALL PRIVILEGES ON `hbnb_dev_db`.* TO 'hbnb_dev'@'localhost'
guillaume@ubuntu:~/AirBnB_v2$
```

Repo:

• GitHub repository: holbertonschool-AirBnB_clone_v2

• File: setup_mysql_dev.sql

Code language: sql

9 online checks totalling 21 points about *Python programming*

Show (/tasks/20397)	Edit (/tasks/20397/edit)	Test correction	Done by	Copy to another project	
Export checks to JSON	Import checks from JS	ON >_ Get a sar	ndbox		

4(MySQL setup test

Level: 0

Auto review

Write a script that prepares a MySQL server for the project:

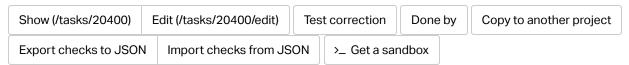
- A database hbnb_test_db
- A new user hbnb test (in localhost)
- The password of hbnb_test should be set to hbnb_test_pwd
- hbnb_test should have all privileges on the database hbnb_test_db (and **only this database**)
- hbnb_test should have SELECT privilege on the database performance_schema (and only this database)
- If the database hbnb_test_db or the user hbnb_test_already exists, your script should not fail

```
guillaume@ubuntu:~/AirBnB_v2$ cat setup_mysql_test.sql | mysql -hlocalhost -uroot -p
Enter password:
guillaume@ubuntu:~/AirBnB_v2$ echo "SHOW DATABASES;" | mysql -uhbnb_test -p | grep h
bnb_test_db
Enter password:
hbnb_test_db
guillaume@ubuntu:~/AirBnB_v2$ echo "SHOW GRANTS FOR 'hbnb_test'@'localhost';" | mysq
l -uroot -p
Enter password:
Grants for hbnb_test@localhost
GRANT USAGE ON *.* TO 'hbnb_test'@'localhost'
GRANT SELECT ON `performance_schema`.* TO 'hbnb_test'@'localhost'
GRANT ALL PRIVILEGES ON `hbnb_test_db`.* TO 'hbnb_test'@'localhost'
guillaume@ubuntu:~/AirBnB_v2$
```

Repo:

- GitHub repository: holbertonschool-AirBnB_clone_v2
- File: setup mysql test.sql
- Code language: python (project based)

9 online checks totalling 21 points about Python programming



5. Delete object

Level: 0

Auto review

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

- Add a new public instance method: def delete(self, obj=None): to delete obj from
 __objects if it's inside if obj is equal to None, the method should not do anything
- Update the prototype of def all(self) to def all(self, cls=None) that returns the list of objects of one type of class. Example below with State it's an optional filtering

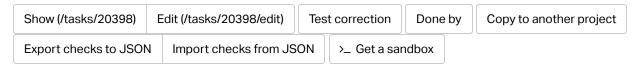
```
ργillaume@ubuntu:~/AirBnB_v2$ cat main_delete.py
#!/usr/bin/python3
""" Test delete feature
from models.engine.file_storage import FileStorage
from models.state import State
fs = FileStorage()
# All States
all_states = fs.all(State)
print("All States: {}".format(len(all_states.keys())))
for state_key in all_states.keys():
    print(all_states[state_key])
# Create a new State
new state = State()
new_state.name = "California"
fs.new(new state)
fs.save()
print("New State: {}".format(new_state))
# All States
all_states = fs.all(State)
print("All States: {}".format(len(all states.keys())))
for state key in all states.keys():
    print(all_states[state_key])
# Create another State
another state = State()
another_state.name = "Nevada"
fs.new(another state)
fs.save()
print("Another State: {}".format(another state))
# All States
all states = fs.all(State)
print("All States: {}".format(len(all states.keys())))
for state_key in all_states.keys():
    print(all_states[state_key])
# Delete the new State
fs.delete(new_state)
# All States
all states = fs.all(State)
print("All States: {}".format(len(all_states.keys())))
for state key in all states.keys():
    print(all states[state key])
guillaume@ubuntu:~/AirBnB_v2$ ./main_delete.py
All States: 0
```

New State: [State] (b0026fc6-116f-4d1a-a9cb-6bb9b299f1ce) {'name': 'California', 'cr **∉**ated_at': datetime.datetime(2017, 11, 10, 1, 13, 32, 561137), 'id': 'b0026fc6−116f− 4d1a-a9cb-6bb9b299f1ce'} All States: 1 [State] (b0026fc6-116f-4d1a-a9cb-6bb9b299f1ce) {'name': 'California', 'created_at': datetime.datetime(2017, 11, 10, 1, 13, 32, 561137), 'id': 'b0026fc6-116f-4d1a-a9cb-6 bb9b299f1ce'} Another State: [State] (37705d25-8903-4318-9303-6d6d336a22c1) {'name': 'Nevada', 'cr eated_at': datetime.datetime(2017, 11, 10, 1, 13, 34, 619133), 'id': '37705d25-8903-4318-9303-6d6d336a22c1'} All States: 2 [State] (b0026fc6-116f-4d1a-a9cb-6bb9b299f1ce) {'name': 'California', 'created_at': datetime.datetime(2017, 11, 10, 1, 13, 32, 561137), 'id': 'b0026fc6-116f-4d1a-a9cb-6 bb9b299f1ce'} [State] (37705d25-8903-4318-9303-6d6d336a22c1) {'name': 'Nevada', 'created at': date time.datetime(2017, 11, 10, 1, 13, 34, 619133), 'id': '37705d25-8903-4318-9303-6d6d3 36a22c1'} All States: 1 [State] (37705d25-8903-4318-9303-6d6d336a22c1) {'name': 'Nevada', 'created_at': date time.datetime(2017, 11, 10, 1, 13, 34, 619133), 'id': '37705d25-8903-4318-9303-6d6d3 36a22c1'} quillaume@ubuntu:~/AirBnB v2\$

Repo:

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

10 online checks totalling 17 points about *Python programming*



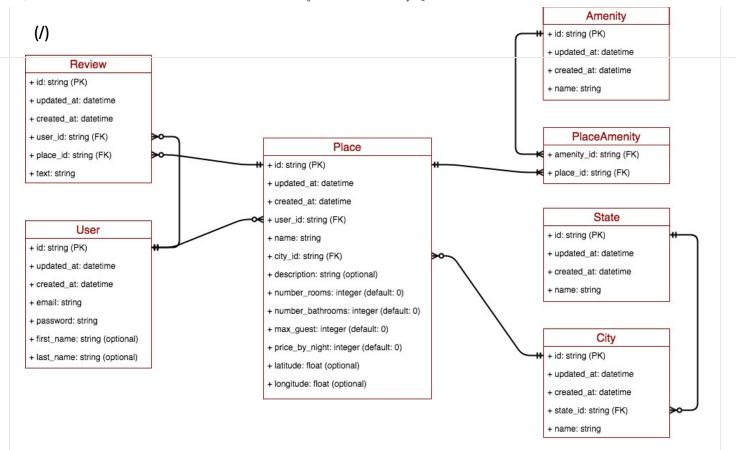
6. DBStorage - States and Cities

Level: 0

Auto review

SQLAlchemy will be your best friend!

It's time to change your storage engine and use SQLAlchemy



In the following steps, you will make multiple changes:

- the biggest one is the transition between FileStorage and DBStorage: In the industry, you will never find a system who can work with both in the same time but you will find a lot of services who can manage multiple storage systems. (for example, logs service: in memory, in disk, in database, in ElasticSearch etc...) The main concept behind is the **abstraction**: Make your code running without knowing how it's stored.
- add attributes for SQLAlchemy: they will be class attributes, like previously, with a "weird" value. Don't
 worry, these values are for description and mapping to the database. If you change one of these
 values, or add/remove one attribute of the a model, you will have to delete the database and recreate
 it in SQL. (Yes it's not optimal, but for development purposes, it's ok. In production, we will add
 "migration mechanism" for the moment, don't spend time on it.)

Please follow all these steps:

Update BaseModel:(models/base model.py)

- Create Base = declarative_base() before the class definition of BaseModel
- Note! BaseModel does /not/ inherit from Base. All other classes will inherit from BaseModel to get common values (id, created_at, updated_at), where inheriting from Base will actually cause SQLAlchemy to attempt to map it to a table.
- Add or replace in the class BaseModel:
 - class attribute id
 - represents a column containing a unique string (60 characters)
 - can't be null
 - primary key
 - o class attribute created at
 - represents a column containing a datetime

(/)

- can't be null
- default value is the current datetime (use datetime.utcnow())
- class attribute updated at
 - represents a column containing a datetime
 - can't be null
 - default value is the current datetime (use datetime.utcnow())
- Move the models.storage.new(self) from def __init__(self, *args, **kwargs): to def save(self): and call it just before models.storage.save()
- In def __init__(self, *args, **kwargs):, manage kwargs to create instance attribute from this dictionary. Ex: kwargs={ 'name': "California" } => self.name = "California" if it's not already the case
- Update the to_dict() method of the class BaseModel:
 - remove the key _sa_instance_state from the dictionary returned by this method only if this key exists
- Add a new public instance method: def delete(self): to delete the current instance from the storage (models.storage) by calling the method delete

Update City:(models/city.py)

- City inherits from BaseModel and Base (respect the order)
- Add or replace in the class City:
 - o class attribute __tablename__
 - represents the table name, cities
 - class attribute name
 - represents a column containing a string (128 characters)
 - can't be null
 - class attribute state id
 - represents a column containing a string (60 characters)
 - can't be null
 - is a foreign key to states.id

Update State:(models/state.py)

- State inherits from BaseModel and Base (respect the order)
- Add or replace in the class State:
 - class attribute tablename
 - represents the table name, states
 - o class attribute name
 - represents a column containing a string (128 characters)
 - can't be null
 - o for DBStorage: class attribute cities must represent a relationship with the class City. If the State object is deleted, all linked City objects must be automatically deleted. Also, the reference from a City object to his State should be named state
 - for FileStorage:getter attribute cities that returns the list of City instances with state_id equals to the current State.id => It will be the FileStorage relationship between State and City

New engine DBStorage:(models/engine/db_storage.py)

- Private class attributes:
 - o __engine:set to None
 - __session:set to None



• Public instance methods:

(/)

o __init__(self):

- = create the engine (self. engine)
- the engine must be linked to the MySQL database and user created before (hbnb_dev and hbnb_dev_db):
 - dialect: mysql
 - driver: mysqldb
- all of the following values must be retrieved via environment variables:
 - MySQL user: HBNB MYSQL USER
 - MySQL password: HBNB_MYSQL_PWD
 - MySQL host: HBNB MYSQL HOST (here = localhost)
 - MySQL database: HBNB_MYSQL_DB
- don't forget the option pool pre ping=True when you call create engine
- drop all tables if the environment variable HBNB_ENV is equal to test
- o all(self, cls=None):
 - query on the current database session (self.__session) all objects depending of the class name (argument cls)
 - if cls=None, query all types of objects (User, State, City, Amenity, Place and Review)
 - this method must return a dictionary: (like FileStorage)
 - key = <class-name>.<object-id>
 - value = object
- new(self, obj):add the object to the current database session (self.__session)
- save(self): commit all changes of the current database session (self.__session)
- delete(self, obj=None): delete from the current database session obj if not None
- o reload(self):
 - create all tables in the database (feature of SQLAlchemy) (WARNING: all classes who inherit from Base must be imported before calling
 Base.metadata.create_all(engine))
 - create the current database session (self.__session) from the engine (self.__engine) by using a sessionmaker (/rltoken/0GhdBhPavjz879KbDhphUQ) - the option expire_on_commit must be set to False; and scoped_session (/rltoken/-H47TYnlzDZmPKo2j_BOwQ) - to make sure your Session is thread-safe

Update __init__.py:(models/__init__.py)

- Add a conditional depending of the value of the environment variable HBNB_TYPE_STORAGE:
 - o If equal to db:
 - Import DBStorage class in this file
 - Create an instance of DBStorage and store it in the variable storage (the line storage.reload() should be executed after this instantiation)
 - Else:
 - Import FileStorage class in this file
 - Create an instance of FileStorage and store it in the variable storage (the line storage.reload() should be executed after this instantiation)
- This "switch" will allow you to change storage type directly by using an environment variable (example below)

State creation:

```
gwillaume@ubuntu:~/AirBnB_v2$ echo 'create State name="California"' | HBNB_MYSQL_USE
R-hbnb_dev HBNB_MYSQL_PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_
dev db HBNB TYPE STORAGE=db ./console.py
(hbnb) 95a5abab-aa65-4861-9bc6-1da4a36069aa
quillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'all State' | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL
PWD=hbnb dev pwd HBNB MYSQL HOST=localhost HBNB MYSQL DB=hbnb dev db HBNB TYPE STOR
AGE=db ./console.py
(hbnb) [[State] (95a5abab-aa65-4861-9bc6-1da4a36069aa) {'name': 'California', 'id':
'95a5abab-aa65-4861-9bc6-1da4a36069aa', 'updated_at': datetime.datetime(2017, 11, 1
0, 0, 49, 54), 'created at': datetime.datetime(2017, 11, 10, 0, 49, 54)}]
(hbnb)
guillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'SELECT * FROM states\G' | mysql -uhbnb_dev -p hb
nb dev db
Enter password:
id: 95a5abab-aa65-4861-9bc6-1da4a36069aa
created at: 2017-11-10 00:49:54
updated at: 2017-11-10 00:49:54
     name: California
guillaume@ubuntu:~/AirBnB v2$
```

City creation:

```
guillaume@ubuntu:~/AirBnB_v2$ echo 'create City state_id="95a5abab-aa65-4861-9bc6-1d
a4a36069aa" name="San Francisco"' | 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 ./cons
ole.py
(hbnb) 4b457e66-c7c8-4f63-910f-fd91c3b7140b
(hbnb)
quillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'all City' | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_
PWD=hbnb dev pwd HBNB MYSQL HOST=localhost HBNB MYSQL DB=hbnb dev db HBNB TYPE STORA
GE=db ./console.py
(hbnb) [[City] (4b457e66-c7c8-4f63-910f-fd91c3b7140b) {'id': '4b457e66-c7c8-4f63-910
f-fd91c3b7140b', 'updated_at': datetime.datetime(2017, 11, 10, 0, 52, 53), 'state_i
d': '95a5abab-aa65-4861-9bc6-1da4a36069aa', 'name': 'San Francisco', 'created_at': d
atetime.datetime(2017, 11, 10, 0, 52, 53)]
(hbnb)
guillaume@ubuntu:~/AirBnB v2$
```

```
gwillaume@ubuntu:~/AirBnB_v2$ echo 'create City state_id="95a5abab-aa65-4861-9bc6-1d
a4a36069aa" name="San_Jose"' | 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.p
(hbnb) a7db3cdc-30e0-4d80-ad8c-679fe45343ba
(hbnb)
guillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'SELECT * FROM cities\G' | mysql -uhbnb_dev -p hb
nb_dev_db
Enter password:
id: 4b457e66-c7c8-4f63-910f-fd91c3b7140b
created_at: 2017-11-10 00:52:53
updated at: 2017-11-10 00:52:53
     name: San Francisco
 state id: 95a5abab-aa65-4861-9bc6-1da4a36069aa
id: a7db3cdc-30e0-4d80-ad8c-679fe45343ba
created at: 2017-11-10 00:53:19
updated at: 2017-11-10 00:53:19
     name: San Jose
 state_id: 95a5abab-aa65-4861-9bc6-1da4a36069aa
quillaume@ubuntu:~/AirBnB v2$
```

Repo:

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

15 online checks totalling 16 points about *Python programming*

Show (/tasks/20402)	Edit (/tasks/20402/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	I Import checks from JS	ON	ndbox	

7. DBStorage - User

Level: 0

Auto review

Update User:(models/user.py)

- User inherits from BaseModel and Base (respect the order)
- Add or replace in the class User:
 - class attribute __tablename__
 - represents the table name, users
 - class attribute email
 - represents a column containing a string (128 characters)
 - can't be null
 - class attribute password

(/)

- represents a column containing a string (128 characters)
- can't be null
- class attribute first name
 - represents a column containing a string (128 characters)
 - can be null
- class attribute last_name
 - represents a column containing a string (128 characters)
 - can be null

```
guillaume@ubuntu:~/AirBnB_v2$ echo 'create User email="gui@hbtn.io" password="guipw
d" first name="Guillaume" last name="Snow"' | HBNB MYSQL USER=hbnb dev HBNB MYSQL PW
D=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORAGE
=db ./console.py
(hbnb) 4f3f4b42-a4c3-4c20-a492-efff10d00c0b
(hbnb)
quillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'all User' | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_
PWD=hbnb_dev_pwd HBNB_MYSQL_HOST=localhost HBNB_MYSQL_DB=hbnb_dev_db HBNB_TYPE_STORA
GE=db ./console.py
(hbnb) [[User] (4f3f4b42-a4c3-4c20-a492-efff10d00c0b) {'updated_at': datetime.dateti
me(2017, 11, 10, 1, 17, 26), 'id': '4f3f4b42-a4c3-4c20-a492-efff10d00c0b', 'last_nam
e': 'Snow', 'first_name': 'Guillaume', 'email': 'gui@hbtn.io', 'created_at': datetim
e.datetime(2017, 11, 10, 1, 17, 26), 'password': 'f4ce007d8e84e0910fbdd7a06fa1692
d'}]
(hbnb)
quillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'SELECT * FROM users\G' | mysql -uhbnb_dev -p hbn
b dev db
Enter password:
id: 4f3f4b42-a4c3-4c20-a492-efff10d00c0b
created at: 2017-11-10 01:17:26
updated_at: 2017-11-10 01:17:26
    email: qui@hbtn.io
 password: quipwd
first_name: Guillaume
last name: Snow
quillaume@ubuntu:~/AirBnB v2$
```

Repo:

- GitHub repository: holbertonschool-AirBnB clone v2
- File: models/user.py
- Code language: python (project based)

8 online checks totalling 9 points about *Python programming*

Show (/tasks/20403)	Edit (/tasks/20403/edit)	Tes	t correction	Done	by	Copy to another project	
Export checks to JSON	Import checks from JS	ON	>_ Get a sar	ndbox			

8. DBStorage - Place

Level: 0

Auto review

Update Place:(models/place.py)

- Place inherits from BaseModel and Base (respect the order)
- Add or replace in the class Place:
 - class attribute __tablename__
 - represents the table name, places
 - class attribute city_id
 - represents a column containing a string (60 characters)
 - can't be null
 - is a foreign key to cities.id
 - class attribute user_id
 - represents a column containing a string (60 characters)
 - can't be null
 - is a foreign key to users.id
 - o class attribute name
 - represents a column containing a string (128 characters)
 - can't be null
 - class attribute description
 - represents a column containing a string (1024 characters)
 - can be null
 - class attribute number rooms
 - represents a column containing an integer
 - can't be null
 - default value: 0
 - class attribute number_bathrooms
 - represents a column containing an integer
 - can't be null
 - default value: 0
 - class attribute max_guest
 - represents a column containing an integer
 - can't be null
 - default value: 0
 - class attribute price_by_night
 - represents a column containing an integer
 - can't be null
 - default value: 0
 - class attribute latitude
 - represents a column containing a float
 - can be null
 - class attribute longitude
 - represents a column containing a float
 - can be null

O

```
Update User:(models/user.py)
  (/)
```

- Add or replace in the class User:
 - class attribute places must represent a relationship with the class Place. If the User object is deleted, all linked Place objects must be automatically deleted. Also, the reference from a Place object to his User should be named user

Update City:(models/city.py)

- Add or replace in the class City:
 - class attribute places must represent a relationship with the class Place. If the City object is deleted, all linked Place objects must be automatically deleted. Also, the reference from a Place object to his City should be named cities

```
quillaume@ubuntu:~/AirBnB v2$ echo 'create Place city id="4b457e66-c7c8-4f63-910f-fd
91c3b7140b" user_id="4f3f4b42-a4c3-4c20-a492-efff10d00c0b" name="Lovely_place" numbe
r rooms=3 number bathrooms=1 max quest=6 price by night=120 latitude=37.773972 longi
tude=-122.431297' | 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
(hbnb) ed72aa02-3286-4891-acbc-9d9fc80a1103
(hbnb)
guillaume@ubuntu:~/AirBnB_v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'all Place' | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL
PWD=hbnb dev pwd HBNB MYSQL HOST=localhost HBNB MYSQL DB=hbnb dev db HBNB TYPE STOR
AGE=db ./console.py
(hbnb) [[Place] (ed72aa02-3286-4891-acbc-9d9fc80a1103) {'latitude': 37.774, 'city_i
d': '4b457e66-c7c8-4f63-910f-fd91c3b7140b', 'price_by_night': 120, 'id': 'ed72aa02-3
286-4891-acbc-9d9fc80a1103', 'user id': '4f3f4b42-a4c3-4c20-a492-efff10d00c0b', 'max
_guest': 6, 'created_at': datetime.datetime(2017, 11, 10, 1, 22, 30), 'description':
None, 'number_rooms': 3, 'longitude': -122.431, 'number_bathrooms': 1, 'name': '"Lov
ely place', 'updated_at': datetime.datetime(2017, 11, 10, 1, 22, 30)}]
(hbnb)
guillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'SELECT * FROM places\G' | mysql -uhbnb_dev -p hb
nb dev db
Enter password:
id: ed72aa02-3286-4891-acbc-9d9fc80a1103
      created at: 2017-11-10 01:22:30
      updated at: 2017-11-10 01:22:30
         city id: 4b457e66-c7c8-4f63-910f-fd91c3b7140b
         user id: 4f3f4b42-a4c3-4c20-a492-efff10d00c0b
           name: "Lovely place"
     description: NULL
    number rooms: 3
number_bathrooms: 1
      max quest: 6
  price_by_night: 120
        latitude: 37.774
       longitude: -122.431
quillaume@ubuntu:~/AirBnB v2$
```

Repo:

- GitHub repository: holbertonschool-AirBnB_clone_v2
- File: models/place.py, models/user.py, models/city.py
- Code language: python (project based)

17 online checks totalling 16 points about Python programming

Show (/tasks/20404)	Edit (/tasks/20404/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	ON >_ Get a sar	ndbox	

9. DBStorage - Review

Level: 0 Auto review

Update Review:(models/review.py)

- Review inherits from BaseModel and Base (respect the order)
- Add or replace in the class Review:
 - class attribute __tablename__
 - represents the table name, reviews
 - o class attribute text
 - represents a column containing a string (1024 characters)
 - can't be null
 - o class attribute place id
 - represents a column containing a string (60 characters)
 - can't be null
 - is a foreign key to places.id
 - o class attribute user id
 - represents a column containing a string (60 characters)
 - can't be null
 - is a foreign key to users.id

Update User: (models/user.py)

- Add or replace in the class User:
 - class attribute reviews must represent a relationship with the class Review. If the User object is deleted, all linked Review objects must be automatically deleted. Also, the reference from a Review object to his User should be named user

Update Place:(models/place.py)

- for DBStorage: class attribute reviews must represent a relationship with the class Review. If the Place object is deleted, all linked Review objects must be automatically deleted. Also, the reference from a Review object to his Place should be named place
- for FileStorage:getterattribute reviews that returns the list of Review instances with place_id equals to the current Place.id => It will be the FileStorage relationship between Place and Review

```
ρwillaume@ubuntu:~/AirBnB v2$
άμillaume@ubuntu:~/AirBnB v2$ echo 'create User email="bob@hbtn.io" password="bobpw
d" first_name="Bob" last_name="Dylan"' | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQL_PWD=hbn
b dev pwd HBNB MYSQL HOST=localhost HBNB MYSQL DB=hbnb dev db HBNB TYPE STORAGE=db
./console.py
(hbnb) d93638d9-8233-4124-8f4e-17786592908b
(hbnb)
guillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'create Review place_id="ed72aa02-3286-4891-acbc-
9d9fc80a1103" user id="d93638d9-8233-4124-8f4e-17786592908b" text="Amazing place, hu
ge_kitchen"' | 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
(hbnb) a2d163d3-1982-48ab-a06b-9dc71e68a791
(hbnb)
guillaume@ubuntu:~/AirBnB_v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'all Review' | HBNB_MYSQL_USER=hbnb_dev HBNB_MYSQ
L PWD=hbnb dev pwd HBNB MYSQL HOST=localhost HBNB MYSQL DB=hbnb dev db HBNB TYPE STO
RAGE=db ./console.py
(hbnb) [[Review] (f2616ff2-f723-4d67-85dc-f050a38e0f2f) {'text': 'Amazing place, hug
e kitchen', 'place_id': 'ed72aa02-3286-4891-acbc-9d9fc80a1103', 'id': 'f2616ff2-f723
-4d67-85dc-f050a38e0f2f', 'updated at': datetime.datetime(2017, 11, 10, 4, 6, 25),
'created_at': datetime.datetime(2017, 11, 10, 4, 6, 25), 'user_id': 'd93638d9-8233-4
124-8f4e-17786592908b'}]
(hbnb)
quillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'SELECT * FROM reviews\G' | mysql -uhbnb_dev -p h
bnb dev db
Enter password:
id: f2616ff2-f723-4d67-85dc-f050a38e0f2f
created at: 2017-11-10 04:06:25
updated_at: 2017-11-10 04:06:25
     text: Amazing place, huge kitchen
 place id: ed72aa02-3286-4891-acbc-9d9fc80a1103
  user id: d93638d9-8233-4124-8f4e-17786592908b
guillaume@ubuntu:~/AirBnB v2$
```

Repo:

- GitHub repository: holbertonschool-AirBnB_clone_v2
- File: models/review.py, models/user.py, models/place.py
- Code language: python (project based)

9 online checks totalling 10 points about Python programming

Show (/tasks/20405)	Edit (/tasks/20405/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	ON >_ Get a sai	ndbox	

1(1) DBStorage - Amenity... and BOOM!

Level: 0

Auto review

Update Amenity:(models/amenity.py)

- Amenity inherits from BaseModel and Base (respect the order)
- Add or replace in the class Amenity:
 - class attribute __tablename__
 - represents the table name, amenities
 - o class attribute name
 - represents a column containing a string (128 characters)
 - can't be null
 - class attribute place_amenities must represent a relationship Many-To-Many (/rltoken/sqkPVsWNQwVXZJWa6EN31A) between the class Place and Amenity . Please see below more detail: place_amenity in the Place update

Update Place:(models/place.py)

- Add an instance of SQLAlchemy Table (/rltoken/HSlim70_eeiedTrXLo6Xlg) called place_amenity for creating the relationship Many-To-Many (/rltoken/sqkPVsWNQwVXZJWa6EN31A) between Place and Amenity:
 - table name place amenity
 - o metadata = Base.metadata
 - o 2 columns:
 - place_id , a string of 60 characters foreign key of places.id , primary key in the table and never null
 - amenity_id , a string of 60 characters foreign key of amenities.id , primary key in the table and never null
- Update Place class:
 - for DBStorage: class attribute amenities must represent a relationship with the class Amenity but also as secondary to place_amenity with option viewonly=False (place amenity has been define previously)
 - o for FileStorage:
 - Getter attribute amenities that returns the list of Amenity instances based on the attribute amenity_ids that contains all Amenity_id linked to the Place
 - Setter attribute amenities that handles append method for adding an Amenity.id to the attribute amenity_ids. This method should accept only Amenity object, otherwise, do nothing.

What's a Many-to-Many relationship?

In our system, we don't want to duplicate amenities (for example, having 10000 time the amenity Wifi), so they will be unique. But, at least 2 places can have the same amenity (like Wifi for example). We are in the case of:

- an amenity can be linked to multiple places
- · a place can have multiple amenities
- = Many-To-Many

To make this link working, we will create a third table called place_amenity that will create these links.



2/26/24, 3:35 PM Project: AirBnB clone - MySQL | Holberton Mexico Intranet And you are good, you have a new engine!

```
ργillaume@ubuntu:~/AirBnB_v2$ cat main_place_amenities.py
#!/usr/bin/python3
""" Test link Many-To-Many Place <> Amenity
from models import *
# creation of a State
state = State(name="California")
state.save()
# creation of a City
city = City(state_id=state.id, name="San Francisco")
city.save()
# creation of a User
user = User(email="john@snow.com", password="johnpwd")
user.save()
# creation of 2 Places
place_1 = Place(user_id=user.id, city_id=city.id, name="House 1")
place 1.save()
place_2 = Place(user_id=user.id, city_id=city.id, name="House 2")
place 2.save()
# creation of 3 various Amenity
amenity_1 = Amenity(name="Wifi")
amenity_1.save()
amenity_2 = Amenity(name="Cable")
amenity_2.save()
amenity_3 = Amenity(name="0ven")
amenity_3.save()
# link place 1 with 2 amenities
place 1.amenities.append(amenity 1)
place_1.amenities.append(amenity_2)
# link place 2 with 3 amenities
place_2.amenities.append(amenity_1)
place_2.amenities.append(amenity_2)
place_2.amenities.append(amenity_3)
storage.save()
print("OK")
guillaume@ubuntu:~/AirBnB_v2$
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 ./main_place
amenities.py
0K
quillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'SELECT * FROM amenities\G' | mysql -uhbnb_dev -p
```

```
hbnb dev db
(Zinter password:
id: 47321eb8-152a-46df-969a-440aa67a6d59
created at: 2017-11-10 04:22:02
updated at: 2017-11-10 04:22:02
    name: Cable
id: 4a307e7f-68f9-438f-81c0-8325898dda2a
created at: 2017-11-10 04:22:02
updated at: 2017-11-10 04:22:02
    name: Oven
id: b80aec52-d0c9-420a-8471-3254572954b6
created at: 2017-11-10 04:22:02
updated_at: 2017-11-10 04:22:02
    name: Wifi
guillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'SELECT * FROM places\G' | mysql -uhbnb_dev -p hb
nb dev db
Enter password:
id: 497e3867-d6e9-4401-9c7c-9687c18d2ac7
     created at: 2017-11-10 04:22:02
     updated at: 2017-11-10 04:22:02
       city id: 9d60df6e-31f7-430c-8162-69e89f4a17aa
       user id: 9b37bd51-6aef-485f-bf10-c7ab83fea2e9
         name: House 1
    description: NULL
   number rooms: 0
number bathrooms: 0
     max_guest: 0
 price by night: 0
      latitude: NULL
     longitude: NULL
id: db549ae1-4500-4d0c-9b50-4b4978ed229e
     created at: 2017-11-10 04:22:02
     updated at: 2017-11-10 04:22:02
       city id: 9d60df6e-31f7-430c-8162-69e89f4a17aa
       user id: 9b37bd51-6aef-485f-bf10-c7ab83fea2e9
         name: House 2
    description: NULL
   number_rooms: 0
number bathrooms: 0
     max_guest: 0
 price_by_night: 0
      latitude: NULL
     longitude: NULL
guillaume@ubuntu:~/AirBnB v2$
guillaume@ubuntu:~/AirBnB_v2$ echo 'SELECT * FROM place_amenity\G' | mysql -uhbnb_qe
v -p hbnb dev db
```

```
Enter password:
place id: 497e3867-d6e9-4401-9c7c-9687c18d2ac7
amenity id: 47321eb8-152a-46df-969a-440aa67a6d59
place id: db549ae1-4500-4d0c-9b50-4b4978ed229e
amenity id: 47321eb8-152a-46df-969a-440aa67a6d59
place id: db549ae1-4500-4d0c-9b50-4b4978ed229e
amenity id: 4a307e7f-68f9-438f-81c0-8325898dda2a
place id: 497e3867-d6e9-4401-9c7c-9687c18d2ac7
amenity id: b80aec52-d0c9-420a-8471-3254572954b6
place id: db549ae1-4500-4d0c-9b50-4b4978ed229e
amenity_id: b80aec52-d0c9-420a-8471-3254572954b6
quillaume@ubuntu:~/AirBnB v2$
```

Repo:

- GitHub repository: holbertonschool-AirBnB_clone_v2
- File: models/amenity.py, models/place.py
- Code language: python (project based)

8 online checks totalling 11 points about Python programming

Show (/tasks/20406)	Edit (/tasks/20406/edit)	Test correction	Done by	Copy to another project
Export checks to JSON	Import checks from JS	SON >_ Get a sa	ndbox	

X. Tests in a separated database

Level: 1

Create a MySQL script to create a specific database and user for unittests:

- A database hbnb_test_db
- A new user hbnb_test (in localhost)
- The hbnb_test password should be set to hbnb_test_pwd
- hbnb_test should have all privileges on the database hbnb_test_db (and only this database)
- If the database hbnb_test_db or the user hbnb_test already exists, your script should not fail

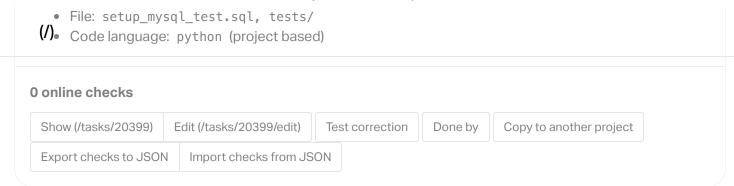
And also, update all unittests to use this new user and database:

- Create an engine linked to this test database/user in def setUp(self): method
- Drop all tables in def tearDown(self): method

Now, your development and test environment are completely independent!

Repo:

• GitHub repository: holbertonschool-AirBnB_clone_v2



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