Curriculum

SE Foundations Average: 137.49%

You have a captain's log due before 2024-04-21 (in 1 day)! Log it now! (/captain_logs/5596018/edit)

0x00. AirBnB clone - The console

Group project

Python

OOP

- Weight: 5
- Project to be done in teams of 2 people (your team: Mohamed Madian, Deiaa Elzyat)
- Project over took place from Dec 4, 2023 6:00 AM to Dec 11, 2023 6:00 AM
- ☑ Manual QA review was done by Robert Adede on Dec 12, 2023 12:30 PM
- An auto review will be launched at the deadline

In a nutshell...

- Contribution: 100.0%
- Manual QA review: 48.0/48 mandatory
- Auto QA review: 293.0/302 mandatory & 9.0/233 optional
- Altogether: 101.19%
 - Mandatory: 97.43%
 - o Optional: 3.86%
 - o Contribution: 100.0%
 - Calculation: 100.0% * (97.43% + (97.43% * 3.86%)) == 101.19%

Overall comment:

Congratulations on your great achievement.







Background Context

Welcome to the AirBnB clone project!

Before starting, please read the AirBnB concept page.

First step: Write a command interpreter to manage your AirBnB objects.

This is the first step towards building your first full web application: the **AirBnB clone**. This first step is very important because you will use what you build during this project with all other following projects: HTML/CSS templating, database storage, API, front-end integration...

Each task is linked and will help you to:

- put in place a parent class (called BaseModel) to take care of the initialization, serialization and describilization of your future instances
- create a simple flow of serialization/deserialization: Instance <-> Dictionary <-> JSON string <-> file
- create all classes used for AirBnB (User, State, City, Place...) that inherit from BaseModel
- create the first abstracted storage engine of the project: File storage.
- · create all unittests to validate all our classes and storage engine

What's a command interpreter?

Do you remember the Shell? It's exactly the same but limited to a specific use-case. In our case, we want to be able to manage the objects of our project:

- Create a new object (ex: a new User or a new Place)
- Retrieve an object from a file, a database etc...
- Do operations on objects (count, compute stats, etc...)
- · Update attributes of an object
- · Destroy an object

Q

Resources

Read or watch:

- cmd module (/rltoken/8ecCwE6veBmm3Nppw4hz5A)
- (/) cmd module in depth (/rltoken/uEy4RftSdKypoig9NFTvCg)
 - packages concept page
 - uuid module (/rltoken/KfL9Tqwdl69W6ttG6gTPPQ)
 - datetime (/rltoken/1d8l3jSKgnYAtA1lZfEDpA)
 - unittest module (/rltoken/IIFiMB8UmgBG2CxA0AD3jA)
 - args/kwargs (/rltoken/C_a0EKbtvKdMcwlAuSlZng)
 - Python test cheatsheet (/rltoken/tgNVrKKzlWgS4dfl3mQklw)
 - cmd module wiki page (/rltoken/EvcaH9uTLlauxuw03WnkOQ)
 - python unittest (/rltoken/begh14KQA-3ov29KvD HvA)

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone (/rltoken/uV5eZkRZ_XEqYbgPd-0CWw), without the help of Google:

General

- How to create a Python package
- How to create a command interpreter in Python using the cmd module
- · What is Unit testing and how to implement it in a large project
- How to serialize and deserialize a Class
- · How to write and read a JSON file
- How to manage datetime
- What is an UUID
- What is *args and how to use it
- What is **kwargs and how to use it
- · How to handle named arguments in a function

Copyright - Plagiarism

- You are tasked to come up with solutions for the tasks below yourself to meet with the above learning objectives.
- You will not be able to meet the objectives of this or any following project by copying and pasting someone else's work.
- You are not allowed to publish any content of this project.
- Any form of plagiarism is strictly forbidden and will result in removal from the program.

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 2.8.*)

- All your files must be executable
- (/). The length of your files will be tested using wc
 - All your modules should have a documentation (python3 -c

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

- All your classes should have a documentation (python3 -c 'print(__import__("my_module").MyClass.__doc__)')
- All your functions (inside and outside a class) should have a 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/op1-rQGlw0wwwqNBsn1yaw)
- 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
- e.g., For models/base_model.py , unit tests must be in: tests/test_models/test_base_model.py
- e.g., For models/user.py, unit tests must be in: tests/test_models/test_user.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 a documentation (python3 -c

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

All your classes should have a documentation (python3 -c 'print(__import__("my_module").MyClass.__doc__)')

All your functions (inside and outside a class) should have a 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 case

GitHub

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

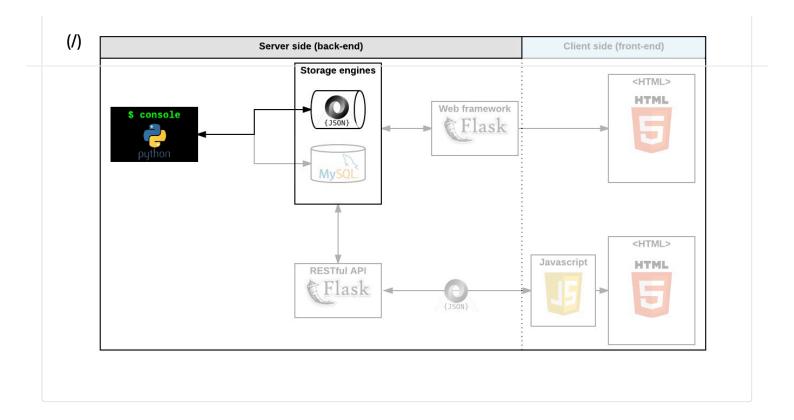
More Info

Execution

Your shell should work like this in interactive mode:

But also in non-interactive mode: (like the Shell project in C)

All tests should also pass in non-interactive mode: \$ echo "python3 -m unittest discover tests" | bash



Video library (8 total)

Search by title

HBNB project overview

HBNB - the console

Python: Unique Identifier

Python: Unittests

Python: BaseModel and inheritance	Code consistency
Python: Modules and Packages	HBNB - storage abstraction

Tasks

0. README, AUTHORS

mandatory

Score: 100.0% (Checks completed: 100.0%)

- Write a README.md:
 - description of the project
 - o description of the command interpreter:
 - how to start it
 - how to use it
 - examples
- You should have an AUTHORS file at the root of your repository, listing all individuals having contributed content to the repository. For format, reference Docker's AUTHORS page (/rltoken/_8n_z3pf5HWi1l7uv1E9iA)
- You should use branches and pull requests on GitHub it will help you as team to organize your work

Repo:

- GitHub repository: AirBnB_clone
- File: README.md, AUTHORS

☑ Done!

QA Review



1. Be pycodestyle compliant!

mandatory

Score: 75.0% (Checks completed: 75.0%)

Write beautiful code that passes the pycodestyle checks. (/)		
Repo: • GitHub repository: AirBnB_clone		
□ Done? Check your code Ask for a new correction > Get a sandbox QA Review		
2. Unittests mandatory		
Score: 73.08% (Checks completed: 73.08%)		
All your files, classes, functions must be tested with unit tests		
guillaume@ubuntu:~/AirBnB\$ python3 -m unittest discover tests		
Ran 189 tests in 13.135s		
OK guillaume@ubuntu:~/AirBnB\$		
Note that this is just an example, the number of tests you create can be different from the above example. Warning:		
Unit tests must also pass in non-interactive mode:		
guillaume@ubuntu:~/AirBnB\$ echo "python3 -m unittest discover tests" bash		
OK guillaume@ubuntu:~/AirBnB\$		
Repo: • GitHub repository: AirBnB_clone • File: tests/		
□ Done? Check your code Ask for a new correction > Get a sandbox QA Review		

Score: 100.0% (Checks completed: 100.0%)

Write a class BaseModel that defines all common attributes/methods for other classes:

- models/base_model.py
- Public instance attributes:
 - o id: string assign with an uuid when an instance is created:
 - you can use uuid.uuid4() to generate unique id but don't forget to convert to a string
 - the goal is to have unique id for each BaseModel
 - o created at: datetime assign with the current datetime when an instance is created
 - updated_at: datetime assign with the current datetime when an instance is created and it will be updated every time you change your object
- __str__:should print: [<class name>] (<self.id>) <self.__dict__>
- · Public instance methods:
 - o save(self): updates the public instance attribute updated at with the current datetime
 - to_dict(self): returns a dictionary containing all keys/values of __dict__ of the instance:
 - by using self.__dict__, only instance attributes set will be returned
 - a key __class__ must be added to this dictionary with the class name of the object
 - created at and updated at must be converted to string object in ISO format:
 - format: %Y-%m-%dT%H:%M:%S.%f (ex: 2017-06-14T22:31:03.285259)
 - you can use isoformat() of datetime object
 - This method will be the first piece of the serialization/deserialization process: create a dictionary representation with "simple object type" of our BaseModel

```
puillaume@ubuntu:~/AirBnB$ cat test_base_model.py
#!/usr/bin/python3
from models.base model import BaseModel
my_model = BaseModel()
my model.name = "My First Model"
my model.my number = 89
print(my_model)
my_model.save()
print(my model)
my_model_json = my_model.to_dict()
print(my_model_json)
print("JSON of my_model:")
for key in my model json.keys():
    print("\t{}: ({}) - {}".format(key, type(my model json[key]), my model json[key]))
guillaume@ubuntu:~/AirBnB$ ./test base model.py
[BaseModel] (b6a6e15c-c67d-4312-9a75-9d084935e579) {'my number': 89, 'name': 'My First Mode
l', 'updated_at': datetime.datetime(2017, 9, 28, 21, 5, 54, 119434), 'id': 'b6a6e15c-c67d-43
12-9a75-9d084935e579', 'created_at': datetime.datetime(2017, 9, 28, 21, 5, 54, 119427)}
[BaseModel] (b6a6e15c-c67d-4312-9a75-9d084935e579) {'my number': 89, 'name': 'My First Mode
l', 'updated_at': datetime.datetime(2017, 9, 28, 21, 5, 54, 119572), 'id': 'b6a6e15c-c67d-43
12-9a75-9d084935e579', 'created_at': datetime.datetime(2017, 9, 28, 21, 5, 54, 119427)}
{'my_number': 89, 'name': 'My First Model', '__class__': 'BaseModel', 'updated_at': '2017-09
-28T21:05:54.119572', 'id': 'b6a6e15c-c67d-4312-9a75-9d084935e579', 'created at': '2017-09-2
8T21:05:54.119427'}
JSON of my_model:
    my number: (<class 'int'>) - 89
    name: (<class 'str'>) - My First Model
    class : (<class 'str'>) - BaseModel
    updated_at: (<class 'str'>) - 2017-09-28T21:05:54.119572
    id: (<class 'str'>) - b6a6e15c-c67d-4312-9a75-9d084935e579
    created at: (<class 'str'>) - 2017-09-28T21:05:54.119427
guillaume@ubuntu:~/AirBnB$
```

Repo:

- GitHub repository: AirBnB_clone
- File: models/base_model.py, models/__init__.py, tests/

☑ Done!

Check your code

>_ Get a sandbox

QA Review

4. Create BaseModel from dictionary



Score: 100.0% (Checks completed: 100.0%)

Previously we created a method to generate a dictionary representation of an instance (method tU) dict()).

Now it's time to re-create an instance with this dictionary representation.

```
<class 'BaseModel'> -> to_dict() -> <class 'dict'> -> <class 'BaseModel'>
```

Update models/base_model.py:

- __init__(self, *args, **kwargs):
 - you will use *args, **kwargs arguments for the constructor of a BaseModel . (more information inside the AirBnB clone concept page)
 - *args won't be used
 - o if kwargs is not empty:
 - each key of this dictionary is an attribute name (Note __class__ from kwargs is the only one that should not be added as an attribute. See the example output, below)
 - each value of this dictionary is the value of this attribute name
 - Warning: created_at and updated_at are strings in this dictionary, but inside your BaseModel instance is working with datetime object. You have to convert these strings into datetime object. Tip: you know the string format of these datetime
 - o otherwise:
 - create id and created at as you did previously (new instance)

```
muillaume@ubuntu:~/AirBnB$ cat test_base_model_dict.py
#!/usr/bin/python3
from models.base model import BaseModel
my_model = BaseModel()
my_model.name = "My_First_Model"
my model.my number = 89
print(my model.id)
print(my_model)
print(type(my model.created at))
print("--")
my_model_json = my_model.to_dict()
print(my_model_json)
print("JSON of my model:")
for key in my model json.keys():
    print("\t{}: ({}) - {}".format(key, type(my_model_json[key]), my_model_json[key]))
print("--")
my new model = BaseModel(**my model json)
print(my_new_model.id)
print(my new model)
print(type(my_new_model.created_at))
print("--")
print(my model is my new model)
guillaume@ubuntu:~/AirBnB$ ./test_base_model_dict.py
56d43177-cc5f-4d6c-a0c1-e167f8c27337
[BaseModel] (56d43177-cc5f-4d6c-a0c1-e167f8c27337) {'id': '56d43177-cc5f-4d6c-a0c1-e167f8c27
337', 'created at': datetime.datetime(2017, 9, 28, 21, 3, 54, 52298), 'my number': 89, 'upda
ted_at': datetime.datetime(2017, 9, 28, 21, 3, 54, 52302), 'name': 'My_First_Model'}
<class 'datetime.datetime'>
{'id': '56d43177-cc5f-4d6c-a0c1-e167f8c27337', 'created_at': '2017-09-28T21:03:54.052298',
 __class__': 'BaseModel', 'my_number': 89, 'updated_at': '2017-09-28T21:03:54.052302', 'nam
e': 'My First Model'}
JSON of my model:
    id: (<class 'str'>) - 56d43177-cc5f-4d6c-a0c1-e167f8c27337
    created at: (<class 'str'>) - 2017-09-28T21:03:54.052298
    __class__: (<class 'str'>) - BaseModel
    my_number: (<class 'int'>) - 89
    updated at: (<class 'str'>) - 2017-09-28T21:03:54.052302
    name: (<class 'str'>) - My_First_Model
56d43177-cc5f-4d6c-a0c1-e167f8c27337
[BaseModel] (56d43177-cc5f-4d6c-a0c1-e167f8c27337) {'id': '56d43177-cc5f-4d6c-a0c1-e167f8c27337}
337', 'created at': datetime.datetime(2017, 9, 28, 21, 3, 54, 52298), 'my number': 89, 'upd
ted_at': datetime.datetime(2017, 9, 28, 21, 3, 54, 52302), 'name': 'My_First_Model'}
<class 'datetime.datetime'>
```

Repo:

- GitHub repository: AirBnB_clone
- File: models/base_model.py, tests/

☑ Done!

Check your code

>_ Get a sandbox

QA Review

5. Store first object

mandatory

Score: 100.0% (Checks completed: 100.0%)

Now we can recreate a BaseModel from another one by using a dictionary representation:

```
<class 'BaseModel'> -> to_dict() -> <class 'dict'> -> <class 'BaseModel'>
```

It's great but it's still not persistent: every time you launch the program, you don't restore all objects created before... The first way you will see here is to save these objects to a file.

Writing the dictionary representation to a file won't be relevant:

- Python doesn't know how to convert a string to a dictionary (easily)
- It's not human readable
- Using this file with another program in Python or other language will be hard.

So, you will convert the dictionary representation to a JSON string. JSON is a standard representation of a data structure. With this format, humans can read and all programming languages have a JSON reader and writer.

Now the flow of serialization-deserialization will be:

```
<class 'BaseModel'> -> to_dict() -> <class 'dict'> -> JSON dump -> <class 'str'> -> FILE -> <class 'str'> -> JSON load -> <class 'dict'> -> <class 'BaseModel'>
```

Magic right?

Terms:

- **simple Python data structure**: Dictionaries, arrays, number and string. ex: { '12': { 'numbers': [1, 2, 3], 'name': "John" } }
- **JSON string representation**: String representing a simple data structure in JSON format. ex: '{ "12": { "numbers": [1, 2, 3], "name": "John" } }'

Write a class FileStorage that serializes instances to a JSON file and deserializes JSON file to instances:

- models/engine/file_storage.py
- Private class attributes:
 - __file_path: string path to the JSON file (ex: file.json)

o __objects: dictionary - empty but will store all objects by <class name>.id (ex: to store a BaseModel object with id=12121212, the key will be BaseModel.12121212)

- Public instance methods:
 - all(self): returns the dictionary __objects
 - o new(self, obj):sets in __objects the obj with key <obj class name>.id
 - save(self): serializes __objects to the JSON file (path: __file_path)
 - reload(self): deserializes the JSON file to __objects (only if the JSON file (__file_path) exists; otherwise, do nothing. If the file doesn't exist, no exception should be raised)

Update models/__init__.py:to create a unique FileStorage instance for your application

- import file_storage.py
- create the variable storage, an instance of FileStorage
- call reload() method on this variable

Update models/base_model.py:to link your BaseModel to FileStorage by using the variable storage

- import the variable storage
- in the method save(self):
 - o call save(self) method of storage
- __init__(self, *args, **kwargs):
 - if it's a new instance (not from a dictionary representation), add a call to the method new(self)
 on storage

```
muillaume@ubuntu:~/AirBnB$ cat test_save_reload_base_model.py
#!/usr/bin/python3
from models import storage
from models.base model import BaseModel
all objs = storage.all()
print("-- Reloaded objects --")
for obj_id in all_objs.keys():
    obj = all_objs[obj_id]
    print(obj)
print("-- Create a new object --")
my model = BaseModel()
my model.name = "My First Model"
my model.my number = 89
my_model.save()
print(my model)
guillaume@ubuntu:~/AirBnB$ cat file.json
cat: file.json: No such file or directory
guillaume@ubuntu:~/AirBnB$
guillaume@ubuntu:~/AirBnB$ ./test_save_reload_base_model.py
-- Reloaded objects --
-- Create a new object --
[BaseModel] (ee49c413-023a-4b49-bd28-f2936c95460d) {'my number': 89, 'updated at': datetime.
datetime(2017, 9, 28, 21, 7, 25, 47381), 'created_at': datetime.datetime(2017, 9, 28, 21, 7,
25, 47372), 'name': 'My_First_Model', 'id': 'ee49c413-023a-4b49-bd28-f2936c95460d'}
guillaume@ubuntu:~/AirBnB$
guillaume@ubuntu:~/AirBnB$ cat file.json ; echo ""
{"BaseModel.ee49c413-023a-4b49-bd28-f2936c95460d": {"my number": 89, " class ": "BaseMode
l", "updated_at": "2017-09-28T21:07:25.047381", "created_at": "2017-09-28T21:07:25.047372",
"name": "My First Model", "id": "ee49c413-023a-4b49-bd28-f2936c95460d"}}
guillaume@ubuntu:~/AirBnB$
guillaume@ubuntu:~/AirBnB$ ./test_save_reload_base_model.py
-- Reloaded objects --
[BaseModel] (ee49c413-023a-4b49-bd28-f2936c95460d) {'name': 'My First Model', 'id': 'ee49c41
3-023a-4b49-bd28-f2936c95460d', 'updated_at': datetime.datetime(2017, 9, 28, 21, 7, 25, 4738
1), 'my_number': 89, 'created_at': datetime.datetime(2017, 9, 28, 21, 7, 25, 47372)}
-- Create a new object --
[BaseModel] (080cce84-c574-4230-b82a-9acb74ad5e8c) {'name': 'My First Model', 'id': '080cce8
4-c574-4230-b82a-9acb74ad5e8c', 'updated_at': datetime.datetime(2017, 9, 28, 21, 7, 51, 9733
08), 'my number': 89, 'created at': datetime.datetime(2017, 9, 28, 21, 7, 51, 973301)}
guillaume@ubuntu:~/AirBnB$
guillaume@ubuntu:~/AirBnB$ ./test_save_reload_base_model.py
-- Reloaded objects --
[BaseModel] (080cce84-c574-4230-b82a-9acb74ad5e8c) {'id': '080cce84-c574-4230-b82a-9acb74ad5
e8c', 'updated at': datetime.datetime(2017, 9, 28, 21, 7, 51, 973308), 'created at': datet
e.datetime(2017, 9, 28, 21, 7, 51, 973301), 'name': 'My_First_Model', 'my_number': 89}
[BaseModel] (ee49c413-023a-4b49-bd28-f2936c95460d) {'id': 'ee49c413-023a-4b49-bd28-f2936c954
60d', 'updated_at': datetime.datetime(2017, 9, 28, 21, 7, 25, 47381), 'created_at': datetim
e.datetime(2017, 9, 28, 21, 7, 25, 47372), 'name': 'My_First_Model', 'my_number': 89}
-- Create a new object --
```

```
[BaseModel] (e79e744a-55d4-45a3-b74a-ca5fae74e0e2) {'id': 'e79e744a-55d4-45a3-b74a-ca5fae74e ( '2', 'updated_at': datetime.datetime(2017, 9, 28, 21, 8, 6, 151750), 'created_at': datetime.datetime(2017, 9, 28, 21, 8, 6, 151751), 'name': 'My_First_Model', 'my_number': 89} guillaume@ubuntu:~/AirBnB$ cat file.json; echo "" {"BaseModel.e79e744a-55d4-45a3-b74a-ca5fae74e0e2": {"__class__": "BaseModel", "id": "e79e744 a-55d4-45a3-b74a-ca5fae74e0e2", "updated_at": "2017-09-28T21:08:06.151750", "created_at": "2017-09-28T21:08:06.151751", "name": "My_First_Model", "my_number": 89}, "BaseModel.080cce84-c574-4230-b82a-9acb74ad5e8c": {"__class__": "BaseModel", "id": "080cce84-c574-4230-b82a-9acb74ad5e8c", "updated_at": "2017-09-28T21:07:51.973308", "created_at": "2017-09-28T21:07:51.973301", "name": "My_First_Model", "my_number": 89}, "BaseModel.ee49c413-023a-4b49-bd28-f2936c95460d"; "__class__": "BaseModel", "id": "ee49c413-023a-4b49-bd28-f2936c95460d", "updated_at": "2017-09-28T21:07:25.047381", "created_at": "2017-09-28T21:07:25.047372", "name": "My_First_Model", "my_number": 89} guillaume@ubuntu:~/AirBnB$
```

Repo:

- GitHub repository: AirBnB_clone
- File: models/engine/file_storage.py, models/engine/__init__.py, models/__init__.py, models/base_model.py, tests/

☑ Done!

Check your code

>_ Get a sandbox

QA Review

6. Console 0.0.1

mandatory

Score: 100.0% (Checks completed: 100.0%)

Write a program called console.py that contains the entry point of the command interpreter:

- You must use the module cmd
- Your class definition must be: class HBNBCommand(cmd.Cmd):
- Your command interpreter should implement:
 - o quit and EOF to exit the program
 - help (this action is provided by default by cmd but you should keep it updated and documented as you work through tasks)
 - a custom prompt: (hbnb)
 - an empty line + ENTER shouldn't execute anything
- Your code should not be executed when imported

Warning:

You should end your file with:

```
if __name__ == '__main__':
    HBNBCommand().cmdloop()
```

to make your program executable except when imported. Please don't add anything around - the Checker won't like it otherwise

No unittests needed

Repo:

• GitHub repository: AirBnB_clone

• File: console.py

☑ Done!

Check your code

>_ Get a sandbox

QA Review

7. Console 0.1

mandatory

Score: 100.0% (Checks completed: 100.0%)

Update your command interpreter (console.py) to have these commands:

- create: Creates a new instance of BaseModel, saves it (to the JSON file) and prints the id. Ex: \$
 create BaseModel
 - If the class name is missing, print ** class name missing ** (ex: \$ create)
 - o If the class name doesn't exist, print ** class doesn't exist ** (ex: \$ create MyModel)
- show: Prints the string representation of an instance based on the class name and id. Ex: \$ show
 BaseModel 1234-1234-1234.
 - If the class name is missing, print ** class name missing ** (ex: \$ show)
 - If the class name doesn't exist, print ** class doesn't exist ** (ex: \$ show MyModel)
 - If the id is missing, print ** instance id missing ** (ex: \$ show BaseModel)
 - o If the instance of the class name doesn't exist for the id, print ** no instance found ** (ex: \$ show BaseModel 121212)
- destroy: Deletes an instance based on the class name and id (save the change into the JSON file).
 EX: \$ destroy BaseModel 1234-1234.
 - If the class name is missing, print ** class name missing ** (ex: \$ destroy)

- If the class name doesn't exist, print ** class doesn't exist ** (ex: \$ destroy MyModel)
- If the id is missing, print ** instance id missing ** (ex: \$ destroy BaseModel)
- all: Prints all string representation of all instances based or not on the class name. Ex: \$ all
 BaseModel or \$ all.
 - The printed result must be a list of strings (like the example below)
 - If the class name doesn't exist, print ** class doesn't exist ** (ex: \$ all MyModel)
- update: Updates an instance based on the class name and id by adding or updating attribute (save the change into the JSON file). Ex: \$ update BaseModel 1234-1234 email "aibnb@mail.com".
 - Usage: update <class name> <id> <attribute name> "<attribute value>"
 - o Only one attribute can be updated at the time
 - You can assume the attribute name is valid (exists for this model)
 - The attribute value must be casted to the attribute type
 - If the class name is missing, print ** class name missing ** (ex: \$ update)
 - If the class name doesn't exist, print ** class doesn't exist ** (ex: \$ update MyModel)
 - If the id is missing, print ** instance id missing ** (ex: \$ update BaseModel)
 - If the instance of the class name doesn't exist for the id, print ** no instance found ** (ex: \$ update BaseModel 121212)
 - If the attribute name is missing, print ** attribute name missing ** (ex: \$ update BaseModel existing-id)
 - If the value for the attribute name doesn't exist, print ** value missing ** (ex: \$ update BaseModel existing-id first_name)
 - All other arguments should not be used (Ex: \$ update BaseModel 1234-1234 email "aibnb@mail.com" first_name "Betty" = \$ update BaseModel 1234-1234-1234 email "aibnb@mail.com")
 - id, created_at and updated_at cant' be updated. You can assume they won't be passed in the update command
 - Only "simple" arguments can be updated: string, integer and float. You can assume nobody will try to update list of ids or datetime

Let's add some rules:

- You can assume arguments are always in the right order
- Each arguments are separated by a space
- A string argument with a space must be between double quote
- The error management starts from the first argument to the last one

```
gwillaume@ubuntu:~/AirBnB$ ./console.py
(hbnb) all MyModel
** class doesn't exist **
(hbnb) show BaseModel
** instance id missing **
(hbnb) show BaseModel My_First_Model
** no instance found **
(hbnb) create BaseModel
49faff9a-6318-451f-87b6-910505c55907
(hbnb) all BaseModel
["[BaseModel] (49faff9a-6318-451f-87b6-910505c55907) {'created at': datetime.datetime(2017,
10, 2, 3, 10, 25, 903293), 'id': '49faff9a-6318-451f-87b6-910505c55907', 'updated_at': datet
ime.datetime(2017, 10, 2, 3, 10, 25, 903300)}"]
(hbnb) show BaseModel 49faff9a-6318-451f-87b6-910505c55907
[BaseModel] (49faff9a-6318-451f-87b6-910505c55907) {'created at': datetime.datetime(2017, 1
0, 2, 3, 10, 25, 903293), 'id': '49faff9a-6318-451f-87b6-910505c55907', 'updated_at': dateti
me.datetime(2017, 10, 2, 3, 10, 25, 903300)}
(hbnb) destroy
** class name missing **
(hbnb) update BaseModel 49faff9a-6318-451f-87b6-910505c55907 first name "Betty"
(hbnb) show BaseModel 49faff9a-6318-451f-87b6-910505c55907
[BaseModel] (49faff9a-6318-451f-87b6-910505c55907) {'first name': 'Betty', 'id': '49faff9a-6
318-451f-87b6-910505c55907', 'created_at': datetime.datetime(2017, 10, 2, 3, 10, 25, 90329
3), 'updated_at': datetime.datetime(2017, 10, 2, 3, 11, 3, 49401)}
(hbnb) create BaseModel
2dd6ef5c-467c-4f82-9521-a772ea7d84e9
(hbnb) all BaseModel
["[BaseModel] (2dd6ef5c-467c-4f82-9521-a772ea7d84e9) {'id': '2dd6ef5c-467c-4f82-9521-a772ea7
d84e9', 'created_at': datetime.datetime(2017, 10, 2, 3, 11, 23, 639717), 'updated_at': datet
ime.datetime(2017, 10, 2, 3, 11, 23, 639724)}", "[BaseModel] (49faff9a-6318-451f-87b6-910505
c55907) {'first_name': 'Betty', 'id': '49faff9a-6318-451f-87b6-910505c55907', 'created_at':
datetime.datetime(2017, 10, 2, 3, 10, 25, 903293), 'updated at': datetime.datetime(2017, 10,
2, 3, 11, 3, 49401)}"]
(hbnb) destroy BaseModel 49faff9a-6318-451f-87b6-910505c55907
(hbnb) show BaseModel 49faff9a-6318-451f-87b6-910505c55907
** no instance found **
(hbnb)
```

No unittests needed

Repo:

• GitHub repository: AirBnB clone

• File: console.py

☑ Done!

Check your code

>_ Get a sandbox

QA Review

Score: 100.0% (Checks completed: 100.0%)

Write a class User that inherits from BaseModel:

- models/user.py
- Public class attributes:
 - email: string empty string
 - o password: string empty string
 - o first_name:string-empty string
 - o last_name : string empty string

Update FileStorage to manage correctly serialization and deserialization of User.

Update your command interpreter (console.py) to allow show, create, destroy, update and all used with User.

```
guillaume@ubuntu:~/AirBnB$ cat test_save_reload_user.py
#!/usr/bin/python3
from models import storage
from models.base model import BaseModel
from models.user import User
all objs = storage.all()
print("-- Reloaded objects --")
for obj_id in all_objs.keys():
    obj = all objs[obj id]
    print(obj)
print("-- Create a new User --")
my user = User()
my_user.first_name = "Betty"
my_user.last_name = "Bar"
my user.email = "airbnb@mail.com"
my_user.password = "root"
my user.save()
print(my_user)
print("-- Create a new User 2 --")
my user2 = User()
my_user2.first_name = "John"
my user2.email = "airbnb2@mail.com"
my user2.password = "root"
my_user2.save()
print(my user2)
guillaume@ubuntu:~/AirBnB$ cat file.json ; echo ""
{"BaseModel.2bf3ebfd-a220-49ee-9ae6-b01c75f6f6a4": {"__class__": "BaseModel", "id": "2bf3ebf
d-a220-49ee-9ae6-b01c75f6f6a4", "updated at": "2017-09-28T21:11:14.333862", "created at": "2
017-09-28T21:11:14.333852"}, "BaseModel.a42ee380-c959-450e-ad29-c840a898cfce": {" class ":
"BaseModel", "id": "a42ee380-c959-450e-ad29-c840a898cfce", "updated_at": "2017-09-28T21:11:1
5.504296", "created_at": "2017-09-28T21:11:15.504287"}, "BaseModel.af9b4cbd-2ce1-4e6e-8259-f
578097dd15f": {" class ": "BaseModel", "id": "af9b4cbd-2ce1-4e6e-8259-f578097dd15f", "upda
ted_at": "2017-09-28T21:11:12.971544", "created_at": "2017-09-28T21:11:12.971521"}, "BaseMod
el.38a22b25-ae9c-4fa9-9f94-59b3eb51bfba": {"__class__": "BaseModel", "id": "38a22b25-ae9c-4f
a9-9f94-59b3eb51bfba", "updated_at": "2017-09-28T21:11:13.753347", "created_at": "2017-09-28
T21:11:13.753337"}, "BaseModel.9bf17966-b092-4996-bd33-26a5353cccb4": {"__class__": "BaseMod
el", "id": "9bf17966-b092-4996-bd33-26a5353cccb4", "updated_at": "2017-09-28T21:11:14.96305
8", "created at": "2017-09-28T21:11:14.963049"}}
guillaume@ubuntu:~/AirBnB$
guillaume@ubuntu:~/AirBnB$ ./test_save_reload_user.py
-- Reloaded objects --
[BaseModel] (38a22b25-ae9c-4fa9-9f94-59b3eb51bfba) {'id': '38a22b25-ae9c-4fa9-9f94-59b3eb51bfba) {
fba', 'created at': datetime.datetime(2017, 9, 28, 21, 11, 13, 753337), 'updated at': datet
me.datetime(2017, 9, 28, 21, 11, 13, 753347)}
[BaseModel] (9bf17966-b092-4996-bd33-26a5353cccb4) {'id': '9bf17966-b092-4996-bd33-26a5353cc
cb4', 'created_at': datetime.datetime(2017, 9, 28, 21, 11, 14, 963049), 'updated_at': dateti
me.datetime(2017, 9, 28, 21, 11, 14, 963058)}
[BaseModel] (2bf3ebfd-a220-49ee-9ae6-b01c75f6f6a4) {'id': '2bf3ebfd-a220-49ee-9ae6-b01c75f6f
```

```
6a4', 'created_at': datetime.datetime(2017, 9, 28, 21, 11, 14, 333852), 'updated_at': dateti
(m).datetime(2017, 9, 28, 21, 11, 14, 333862)}
[BaseModel] (a42ee380-c959-450e-ad29-c840a898cfce) {'id': 'a42ee380-c959-450e-ad29-c840a898c
fce', 'created_at': datetime.datetime(2017, 9, 28, 21, 11, 15, 504287), 'updated_at': dateti
me.datetime(2017, 9, 28, 21, 11, 15, 504296)}
[BaseModel] (af9b4cbd-2ce1-4e6e-8259-f578097dd15f) {'id': 'af9b4cbd-2ce1-4e6e-8259-f578097dd
15f', 'created at': datetime.datetime(2017, 9, 28, 21, 11, 12, 971521), 'updated at': dateti
me.datetime(2017, 9, 28, 21, 11, 12, 971544)}
-- Create a new User --
[User] (38f22813-2753-4d42-b37c-57a17f1e4f88) {'id': '38f22813-2753-4d42-b37c-57a17f1e4f88',
'created_at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848279), 'updated_at': datetime.dat
etime(2017, 9, 28, 21, 11, 42, 848291), 'email': 'airbnb@mail.com', 'first name': 'Betty',
'last_name': 'Bar', 'password': 'root'}
-- Create a new User 2 --
[User] (d0ef8146-4664-4de5-8e89-096d667b728e) {'id': 'd0ef8146-4664-4de5-8e89-096d667b728e',
'created_at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848280), 'updated_at': datetime.dat
etime(2017, 9, 28, 21, 11, 42, 848294), 'email': 'airbnb2@mail.com', 'first_name': 'John',
'password': 'root'}
guillaume@ubuntu:~/AirBnB$
guillaume@ubuntu:~/AirBnB$ cat file.json ; echo ""
{"BaseModel.af9b4cbd-2ce1-4e6e-8259-f578097dd15f": {"id": "af9b4cbd-2ce1-4e6e-8259-f578097dd
15f", "updated_at": "2017-09-28T21:11:12.971544", "created_at": "2017-09-28T21:11:12.97152
1", "__class__": "BaseModel"}, "BaseModel.38a22b25-ae9c-4fa9-9f94-59b3eb51bfba": {"id": "38a
22b25-ae9c-4fa9-9f94-59b3eb51bfba", "updated at": "2017-09-28T21:11:13.753347", "created a
t": "2017-09-28T21:11:13.753337", "__class__": "BaseModel"}, "BaseModel.9bf17966-b092-4996-b
d33-26a5353cccb4": {"id": "9bf17966-b092-4996-bd33-26a5353cccb4", "updated at": "2017-09-28T
21:11:14.963058", "created at": "2017-09-28T21:11:14.963049", " class ": "BaseModel"}, "Ba
seModel.2bf3ebfd-a220-49ee-9ae6-b01c75f6f6a4": {"id": "2bf3ebfd-a220-49ee-9ae6-b01c75f6f6a
4", "updated at": "2017-09-28T21:11:14.333862", "created at": "2017-09-28T21:11:14.333852",
"__class__": "BaseModel"}, "BaseModel.a42ee380-c959-450e-ad29-c840a898cfce": {"id": "a42ee38
0-c959-450e-ad29-c840a898cfce", "updated at": "2017-09-28T21:11:15.504296", "created at": "2
017-09-28T21:11:15.504287", "__class__": "BaseModel"}, "User.38f22813-2753-4d42-b37c-57a17f1
e4f88": {"id": "38f22813-2753-4d42-b37c-57a17f1e4f88", "created_at": "2017-09-28T21:11:42.84
8279", "updated_at": "2017-09-28T21:11:42.848291", "email": "airbnb@mail.com", "first_name":
"Betty", "__class__": "User", "last_name": "Bar", "password": "root"}, "User.d0ef8146-4664-4
de5-8e89-096d667b728e": {"id": "d0ef8146-4664-4de5-8e89-096d667b728e", "created at": "2017-0
9-28T21:11:42.848280", "updated at": "2017-09-28T21:11:42.848294", "email": "airbnb 2@mail.c
om", "first_name": "John", "__class__": "User", "password": "root"}}
guillaume@ubuntu:~/AirBnB$
guillaume@ubuntu:~/AirBnB$ ./test_save_reload_user.py
-- Reloaded objects --
[BaseModel] (af9b4cbd-2ce1-4e6e-8259-f578097dd15f) {'updated_at': datetime.datetime(2017, 9,
28, 21, 11, 12, 971544), 'id': 'af9b4cbd-2ce1-4e6e-8259-f578097dd15f', 'created at': datetim
e.datetime(2017, 9, 28, 21, 11, 12, 971521)}
[BaseModel] (2bf3ebfd-a220-49ee-9ae6-b01c75f6f6a4) {'updated_at': datetime.datetime(2017, 9,
28, 21, 11, 14, 333862), 'id': '2bf3ebfd-a220-49ee-9ae6-b01c75f6f6a4', 'created at': datetim
e.datetime(2017, 9, 28, 21, 11, 14, 333852)}
[BaseModel] (9bf17966-b092-4996-bd33-26a5353cccb4) {'updated_at': datetime.datetime(2017, 9,
28, 21, 11, 14, 963058), 'id': '9bf17966-b092-4996-bd33-26a5353cccb4', 'created_at': datetim
e.datetime(2017, 9, 28, 21, 11, 14, 963049)}
[BaseModel] (a42ee380-c959-450e-ad29-c840a898cfce) {'updated_at': datetime.datetime(2017, 9,
28, 21, 11, 15, 504296), 'id': 'a42ee380-c959-450e-ad29-c840a898cfce', 'created_at': datetim
```

```
e.datetime(2017, 9, 28, 21, 11, 15, 504287)}
(/)aseModel] (38a22b25-ae9c-4fa9-9f94-59b3eb51bfba) {'updated_at': datetime.datetime(2017, 9,
28, 21, 11, 13, 753347), 'id': '38a22b25-ae9c-4fa9-9f94-59b3eb51bfba', 'created at': datetim
e.datetime(2017, 9, 28, 21, 11, 13, 753337)}
[User] (38f22813-2753-4d42-b37c-57a17f1e4f88) {'password': '63a9f0ea7bb98050796b649e8548184
5', 'created_at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848279), 'email': 'airbnb@mail.
com', 'updated at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848291), 'last name': 'Bar',
'id': '38f22813-2753-4d42-b37c-57a17f1e4f88', 'first_name': 'Betty'}
[User] (d0ef8146-4664-4de5-8e89-096d667b728e) {'password': '63a9f0ea7bb98050796b649e8548184
5', 'created_at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848280), 'email': 'airbnb_2@mai
1.com', 'updated_at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848294), 'id': 'd0ef8146-46
64-4de5-8e89-096d667b728e', 'first name': 'John'}
-- Create a new User --
[User] (246c227a-d5c1-403d-9bc7-6a47bb9f0f68) {'password': 'root', 'created at': datetime.da
tetime(2017, 9, 28, 21, 12, 19, 611352), 'email': 'airbnb@mail.com', 'updated at': datetime.
datetime(2017, 9, 28, 21, 12, 19, 611363), 'last_name': 'Bar', 'id': '246c227a-d5c1-403d-9bc
7-6a47bb9f0f68', 'first_name': 'Betty'}
-- Create a new User 2 --
[User] (fce12f8a-fdb6-439a-afe8-2881754de71c) {'password': 'root', 'created_at': datetime.da
tetime(2017, 9, 28, 21, 12, 19, 611354), 'email': 'airbnb 2@mail.com', 'updated at': datetim
e.datetime(2017, 9, 28, 21, 12, 19, 611368), 'id': 'fce12f8a-fdb6-439a-afe8-2881754de71c',
'first name': 'John'}
guillaume@ubuntu:~/AirBnB$
guillaume@ubuntu:~/AirBnB$ cat file.json ; echo ""
{"BaseModel.af9b4cbd-2ce1-4e6e-8259-f578097dd15f": {"updated at": "2017-09-28T21:11:12.97154
4", " class ": "BaseModel", "id": "af9b4cbd-2ce1-4e6e-8259-f578097dd15f", "created at": "2
017-09-28T21:11:12.971521"}, "User.38f22813-2753-4d42-b37c-57a17f1e4f88": {"password": "63a9
f0ea7bb98050796b649e85481845", "created_at": "2017-09-28T21:11:42.848279", "email": "airbnb@
mail.com", "id": "38f22813-2753-4d42-b37c-57a17f1e4f88", "last name": "Bar", "updated at":
"2017-09-28T21:11:42.848291", "first_name": "Betty", "__class__": "User"}, "User.d0ef8146-46
64-4de5-8e89-096d667b728e": {"password": "63a9f0ea7bb98050796b649e85481845", "created at":
"2017-09-28T21:11:42.848280", "email": "airbnb_2@mail.com", "id": "d0ef8146-4664-4de5-8e89-0
96d667b728e", "updated at": "2017-09-28T21:11:42.848294", "first name": "John", " class ":
"User"}, "BaseModel.9bf17966-b092-4996-bd33-26a5353cccb4": {"updated at": "2017-09-28T21:11:
14.963058", " class ": "BaseModel", "id": "9bf17966-b092-4996-bd33-26a5353cccb4", "created
_at": "2017-09-28T21:11:14.963049"}, "BaseModel.a42ee380-c959-450e-ad29-c840a898cfce": {"upd
ated_at": "2017-09-28T21:11:15.504296", "__class__": "BaseModel", "id": "a42ee380-c959-450e-
ad29-c840a898cfce", "created_at": "2017-09-28T21:11:15.504287"}, "BaseModel.38a22b25-ae9c-4f
a9-9f94-59b3eb51bfba": {"updated_at": "2017-09-28T21:11:13.753347", "__class__": "BaseMode
l", "id": "38a22b25-ae9c-4fa9-9f94-59b3eb51bfba", "created_at": "2017-09-28T21:11:13.75333
7"}, "BaseModel.2bf3ebfd-a220-49ee-9ae6-b01c75f6f6a4": {"updated at": "2017-09-28T21:11:14.3
33862", "__class__": "BaseModel", "id": "2bf3ebfd-a220-49ee-9ae6-b01c75f6f6a4", "created_a
t": "2017-09-28T21:11:14.333852"}, "User.246c227a-d5c1-403d-9bc7-6a47bb9f0f68": {"password":
"root", "created_at": "2017-09-28T21:12:19.611352", "email": "airbnb@mail.com", "id": "246c2
27a-d5c1-403d-9bc7-6a47bb9f0f68", "last name": "Bar", "updated at": "2017-09-28T21:12:19.611
363", "first name": "Betty", " class ": "User"}, "User.fce12f8a-fdb6-439a-afe8-2881754de71
c": {"password": "root", "created at": "2017-09-28T21:12:19.611354", "email": "airbnb 2@mai
1.com", "id": "fce12f8a-fdb6-439a-afe8-2881754de71c", "updated at": "2017-09-28T21:12:19.617
368", "first_name": "John", "__class__": "User"}}
guillaume@ubuntu:~/AirBnB$
```

No unittests needed for the console (/)

Repo:

- GitHub repository: AirBnB_clone
- File: models/user.py, models/engine/file_storage.py, console.py, tests/

☑ Done!

Check your code

>_ Get a sandbox

QA Review

9. More classes!

mandatory

Score: 100.0% (Checks completed: 100.0%)

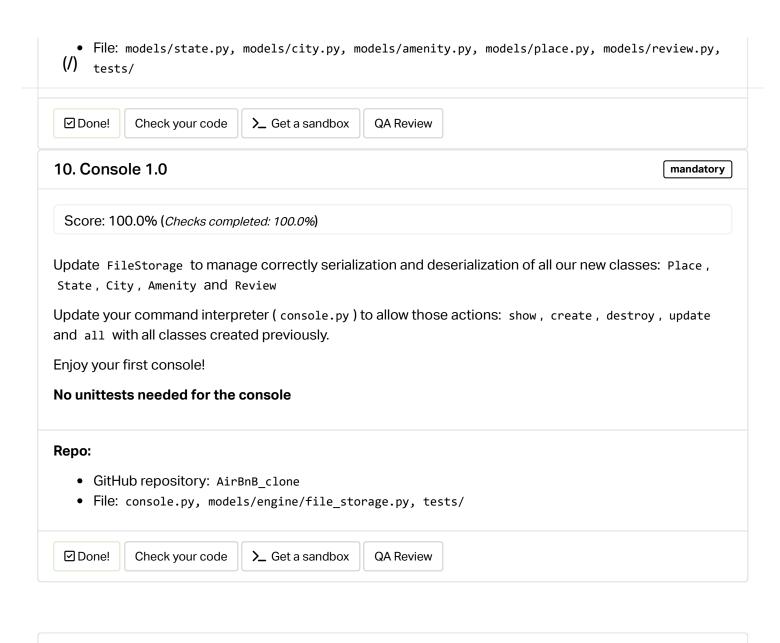
Write all those classes that inherit from BaseModel:

- State (models/state.py):
 - Public class attributes:
 - name : string empty string
- City (models/city.py):
 - Public class attributes:
 - state_id : string empty string: it will be the State.id
 - name : string empty string
- Amenity (models/amenity.py):
 - Public class attributes:
 - name : string empty string
- Place (models/place.py):
 - Public class attributes:
 - city_id: string empty string: it will be the City.id
 - user_id: string empty string: it will be the User.id
 - name : string empty string
 - description: string empty string
 - number_rooms : integer 0
 - number_bathrooms:integer 0
 - max_guest : integer 0
 - price_by_night:integer-0
 - latitude:float-0.0
 - longitude:float-0.0
 - amenity_ids: list of string empty list: it will be the list of Amenity.id later
- Review (models/review.py):
 - o Public class attributes:
 - place_id: string empty string: it will be the Place.id
 - user_id: string empty string: it will be the User.id
 - text : string empty string

Q

Repo:

• GitHub repository: AirBnB clone



11. All instances by class name

#advanced

Score: 0.0% (Checks completed: 0.0%)

Update your command interpreter (console.py) to retrieve all instances of a class by using: <class name>.all().

```
gyillaume@ubuntu:~/AirBnB$ ./console.py
(hbnb) User.all()
 [[User] (246c227a-d5c1-403d-9bc7-6a47bb9f0f68) {'first name': 'Betty', 'last name': 'Bar',
 'created_at': datetime.datetime(2017, 9, 28, 21, 12, 19, 611352), 'updated_at': datetime.dat
 etime(2017, 9, 28, 21, 12, 19, 611363), 'password': '63a9f0ea7bb98050796b649e85481845', 'ema
 il': 'airbnb@mail.com', 'id': '246c227a-d5c1-403d-9bc7-6a47bb9f0f68'}, [User] (38f22813-2753
 -4d42-b37c-57a17f1e4f88) {'first_name': 'Betty', 'last_name': 'Bar', 'created_at': datetime.
 datetime(2017, 9, 28, 21, 11, 42, 848279), 'updated_at': datetime.datetime(2017, 9, 28, 21,
 11, 42, 848291), 'password': 'b9be11166d72e9e3ae7fd407165e4bd2', 'email': 'airbnb@mail.com',
 'id': '38f22813-2753-4d42-b37c-57a17f1e4f88'}]
 (hbnb)
No unittests needed
Repo:
   • GitHub repository: AirBnB_clone
   • File: console.py
 ☐ Done?
            Check your code
                             Ask for a new correction
                                                     >_ Get a sandbox
                                                                       QA Review
12. Count instances
                                                                                           #advanced
 Score: 0.0% (Checks completed: 0.0%)
Update your command interpreter (console.py) to retrieve the number of instances of a class: <class
name>.count().
 guillaume@ubuntu:~/AirBnB$ ./console.py
 (hbnb) User.count()
 (hbnb)
No unittests needed
Repo:
   • GitHub repository: AirBnB_clone
   • File: console.py
 ☐ Done?
            Check your code
                                                                       QA Review
                             Ask for a new correction
                                                     >_ Get a sandbox
```

Score: 0.0% (Checks completed: 0.0%)

Update your command interpreter (console.py) to retrieve an instance based on its ID: <class name>.show(<id>).

Errors management must be the same as previously.

```
guillaume@ubuntu:~/AirBnB$ ./console.py
(hbnb) User.show("246c227a-d5c1-403d-9bc7-6a47bb9f0f68")
[User] (246c227a-d5c1-403d-9bc7-6a47bb9f0f68) {'first_name': 'Betty', 'last_name': 'Bar', 'c reated_at': datetime.datetime(2017, 9, 28, 21, 12, 19, 611352), 'updated_at': datetime.datet ime(2017, 9, 28, 21, 12, 19, 611363), 'password': '63a9f0ea7bb98050796b649e85481845', 'emai l': 'airbnb@mail.com', 'id': '246c227a-d5c1-403d-9bc7-6a47bb9f0f68'}
(hbnb) User.show("Bar")
** no instance found **
(hbnb)
```

No unittests needed

Repo:

• GitHub repository: AirBnB_clone

• File: console.py

□ Done? Check your code Ask for a new correction > Get a sandbox QA Review

14. Destroy

#advanced

Score: 0.0% (Checks completed: 0.0%)

Update your command interpreter (console.py) to destroy an instance based on his ID: <class name>.destroy(<id>).

Errors management must be the same as previously.

```
guillaume@ubuntu:~/AirBnB$ ./console.py
(hbnb) User.count()
2
(hbnb) User.destroy("246c227a-d5c1-403d-9bc7-6a47bb9f0f68")
(hbnb) User.count()
1
(hbnb) User.destroy("Bar")
** no instance found **
(hbnb)
```

No unittests needed (/) Repo: • GitHub repository: AirBnB clone File: console.py ☐ Done? Check your code Ask for a new correction >_ Get a sandbox **QA Review** 15. Update #advanced Score: 0.0% (Checks completed: 0.0%) Update your command interpreter (console.py) to update an instance based on his ID: <class name>.update(<id>, <attribute name>, <attribute value>). Errors management must be the same as previously. guillaume@ubuntu:~/AirBnB\$./console.py (hbnb) User.show("38f22813-2753-4d42-b37c-57a17f1e4f88") [User] (38f22813-2753-4d42-b37c-57a17f1e4f88) {'first_name': 'Betty', 'last_name': 'Bar', 'c reated at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848279), 'updated at': datetime.datet ime(2017, 9, 28, 21, 11, 42, 848291), 'password': 'b9be11166d72e9e3ae7fd407165e4bd2', 'emai l': 'airbnb@mail.com', 'id': '38f22813-2753-4d42-b37c-57a17f1e4f88'} (hbnb) (hbnb) User.update("38f22813-2753-4d42-b37c-57a17f1e4f88", "first name", "John") (hbnb) User.update("38f22813-2753-4d42-b37c-57a17f1e4f88", "age", 89) (hbnb) (hbnb) User.show("38f22813-2753-4d42-b37c-57a17f1e4f88") [User] (38f22813-2753-4d42-b37c-57a17f1e4f88) {'age': 89, 'first_name': 'John', 'last_name': 'Bar', 'created_at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848279), 'updated_at': datet ime.datetime(2017, 9, 28, 21, 15, 32, 299055), 'password': 'b9be11166d72e9e3ae7fd407165e4bd 2', 'email': 'airbnb@mail.com', 'id': '38f22813-2753-4d42-b37c-57a17f1e4f88'} (hbnb) No unittests needed Repo: • GitHub repository: AirBnB clone • File: console.py

☐ Done?

Check your code

Ask for a new correction

>_ Get a sandbox

QA Review

Score: 0.0% (Checks completed: 0.0%)

Update your command interpreter (console.py) to update an instance based on his ID with a dictionary: <class name>.update(<id>, <dictionary representation>).

Errors management must be the same as previously.

```
guillaume@ubuntu:~/AirBnB$ ./console.py
(hbnb) User.show("38f22813-2753-4d42-b37c-57a17f1e4f88")
[User] (38f22813-2753-4d42-b37c-57a17f1e4f88) {'age': 23, 'first name': 'Bob', 'last name':
'Bar', 'created_at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848279), 'updated_at': datet
ime.datetime(2017, 9, 28, 21, 15, 32, 299055), 'password': 'b9be11166d72e9e3ae7fd407165e4bd
2', 'email': 'airbnb@mail.com', 'id': '38f22813-2753-4d42-b37c-57a17f1e4f88'}
(hbnb)
(hbnb) User.update("38f22813-2753-4d42-b37c-57a17f1e4f88", {'first name': "John", "age": 8
9})
(hbnb)
(hbnb) User.show("38f22813-2753-4d42-b37c-57a17f1e4f88")
[User] (38f22813-2753-4d42-b37c-57a17f1e4f88) {'age': 89, 'first_name': 'John', 'last_name':
'Bar', 'created_at': datetime.datetime(2017, 9, 28, 21, 11, 42, 848279), 'updated_at': datet
ime.datetime(2017, 9, 28, 21, 17, 10, 788143), 'password': 'b9be11166d72e9e3ae7fd407165e4bd
2', 'email': 'airbnb@mail.com', 'id': '38f22813-2753-4d42-b37c-57a17f1e4f88'}
(hbnb)
```

No unittests needed

Repo:

- GitHub repository: AirBnB_clone
- File: console.py

☐ Done?

Check your code

Ask for a new correction

>_ Get a sandbox

QA Review

17. Unittests for the Console!

#advanced

Score: 17.65% (*Checks completed: 17.65%*)

Write all unittests for console.py, all features!

For testing the console, you should "intercept" STDOUT of it, we highly recommend you to use:

Q

```
with patch('sys.stdout', new=StringIO()) as f:
    HBNBCommand().onecmd("help show")
```

Otherwise, you will have to re-write the console by replacing precmd by default.

Well done on completing this project! Let the world hear about this milestone achieved.

Click here to tweet! (https://twitter.com/intent/tweet?
text=I+have+successfully+completed+my+AirBnB+Console+project+on+%23ALX_SE+%40facesofalxse)

Repo:
GitHub repository: AirBnB_clone
File: tests/test_console.py

Done? Check your code Ask for a new correction >_ Get a sandbox QA Review

Ready for peer review

Reviews are closed since Dec 13, 2023 at 6:00 AM

Copyright © 2024 ALX, All rights reserved.