# HW1: Bedrock-a-party

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GitHub repository: <a href="https://github.com/pacant/Bedrock-a-party">https://github.com/pacant/Bedrock-a-party</a>

### 1. Introduction

The homework consists in an implementation of a RESTful service, starting from a given skeleton and exposing the API listed in the assignment. The service manages the organization of parties, registering the different parties with their guests and food lists.

# 2. Implementation

The skeleton mainly consists in a module (party.py) which implements the basic functionalities of the classes and the exceptions, a file for testing the code (test\_party.py), and a blueprint (parties.py) that has to offer all the functionality in a RESTful way, using flask.

Flask allows to address the resources of the service by the URI using decorations, also I can grant the use of certain REST methods according to the API (adding methods=[...] to the decoration).

For exposing the API, I used the three utilities functions presents in *parties.py* for creating a party, retrieve the list of the parties and check if a party exists. For the other operations it's simply necessary to work on *LOADED\_PARTIES* dictionary and using the basic functionality of the classes for retrieving, deleting and adding data, according to the parameters in the URI of the resource.

As I said, parameters for operations are always inserted in the URI by the user (flask can fetches them because they are between angular brackets in the route), except when creating a party: in fact the user has to send the guests list (I tested it sending JSON data) with the POST method.

## 3. Testing

Two kinds of testing:

• Pytest (test\_party.py)

```
bedrock_a_party/tests/test_party.py: 13 warnings
/usr/local/lib/python3.9/site-packages/flask/json/__init__.py:211: Deprecation Warning: Importing 'itsdangerous.json' is deprecated and will be removed in ItsD
angerous 2.1. Use Python's 'json' module instead.
    rv = _json.dumps(obj, **kwargs)
-- Docs: https://docs.pytest.org/en/stable/warnings.html
    ----- coverage: platform darwin, python 3.9.7-final-0 --
                                   Stmts
Name
                                            Miss Branch BrPart
                                                                Cover
                                                                        Missing
bedrock_a_party/classes/party.py
                                                     10
                                                             2
                                                                  84%
                                                                        17, 31, 3
9-40, 86, 94, 99, 102, 107, 110
bedrock_a_party/views/parties.py
                                               9
                                                             5
                                                                  83%
                                                                        25->29, 5
                                      72
                                                     22
4-56, 70->75, 95-96, 103-104, 120-121, 142
TOTAL
                                      187
                                              19
                                                     32
                                                             7
                                                                  87%
6 files skipped due to complete coverage.
Coverage HTML written to dir htmlcov
FAIL Required test coverage of 98% not reached. Total coverage: 87.21%
```

### • Postman (request and response)















