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Bachelor of Information Technology ITMI18SP 3.12.2020

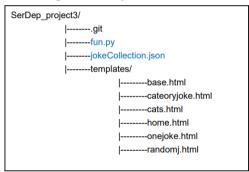
Service Deployment Project Timo Hynninen

JokeAPI

1. Implementation: (writing API, meet requirements and build an app)

Using python flask as server and local json dictionary file as small size of database.

Working directory:



Project has been push to the GitHub: (public)

https://github.com/KingOfSpicy/ServiceDeployment_3_v2

In flask @app.route() handle the client request url, or API restful action and return the .html from templates/

Open Visual Code → open the working folder "SerDep_Ass33" → Terminal: type "python fun.py" to launch the server.

This is home page: http://127.0.0.1:5000

Hi! Welcome to joke collection app!

See All categories.

See all jokes here!

See a random joke from all jokes.

content': "The judge scolded the defendant angrily: 'I have served as a judge of this district court u feel ashamed? 'Defendant: 'It's not my fault that you can't get promoted."', 'dislike': 12, 'id': 0, 'a patient who often imagined that he was a cat, Doctor~'You think you are a cat... when did it is the destart of the

In home page if click: "see all categories", and then pick one category can see what jokes inside. (listing work)

And client can also click the joke he/she likes to gives it a vote!



But if click "See a random joke from all jokes", client will get a random job on the browser.

How strong you are? 'I always eat Mentos with coca-cola.'

like: 4

dislike: 2

And if click "see all jokes here!" clients will get: A list of all jokes! (from entire database!)



- The judge scolded the defendant angrily: 'I have served as a jud my fault that you can't get promoted.'
- 2. When a psychiatrist was treating a patient who often imagined
- 3. A patient with indigestion complained to the doctor: Im very at watermelon, how can I get back to normal? The doctor thought
- 4. My girlfriend is from other nation. 'what nation?' -- Imagi-natio
- A customer smokes in a department store. The manager of the in the mall?' The manager answered politely, 'We have condom
- 6. How strong you are? 'I always eat Mentos with coca-cola.'
- 7. c2story0
- 8. c2story1
- 9. c2story2

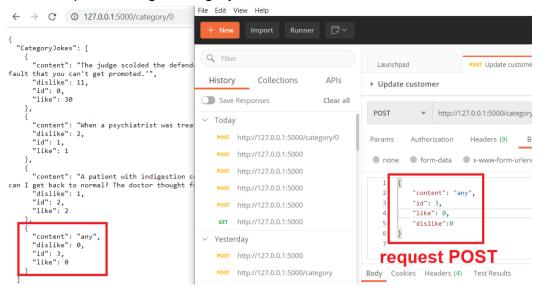
To like or dislike a joke, go to joke's url by its own id:



To add a category or a joke in, using Postman tool: (after that new category will be shown on /category page.

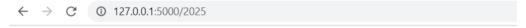


Same step as adding a category:



Give a unique id to directly access the joke. (of course client can click like/dislike there also)

url: localhost:5000/<unique id>



How strong you are? 'I always eat Mentos with coca-cola.'

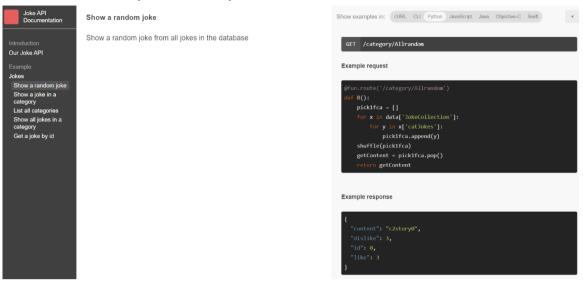
like: 5

dislike: 2



2. Using docbox to get json results.

1. Retrieve a random joke from all jokes in the database:



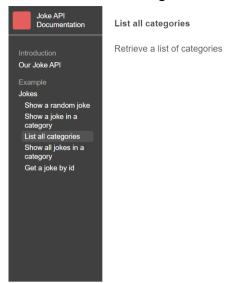
2. Retrieve a random joke from a category of jokes

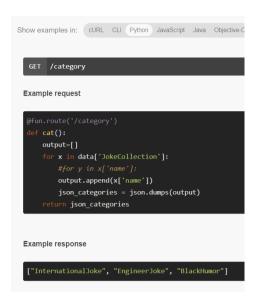
Show a joke in a category

Show a random joke from a category of jokes

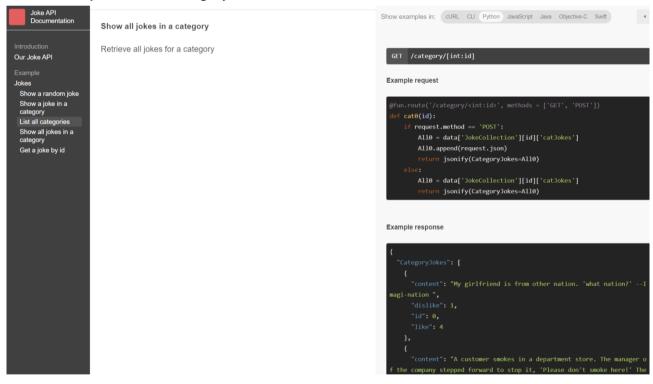


3. Retrieve a list of categories





4. Retrieve all jokes for a category



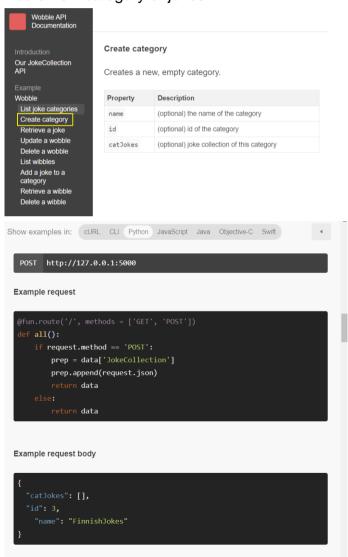
5. Retrieve a joke by id



```
Show examples in: cURL CLI Python JavaScript Java Objective-C Swift
  GET http://127.0.0.1:5000/[string:j_id]
 Example request
  def unique(j_id):
          if request.method == 'POST':
              if request.form.get('submit_a'):
                  for x in data['JokeCollection']:
                      for y in x['catJokes']:
                          if j_id == y['j_id']:
                              y['like']=y['like']+1
                              with open('jokeCollection.json', 'w') as fp:
                                  json.dump(y, fp)
                              like = y['like']
                              dislike = y['dislike']
              elif request.form.get('submit_b'):
                  for x in data['JokeCollection']:
                      for y in x['catJokes']:
                          if j_id == y['j_id']:
                              y['dislike']=y['dislike']+1
                              with open('jokeCollection.json', 'w') as fp:
                                  json.dump(y, fp)
                              like = y['like']
                              dislike = y['dislike']
              for x in data['JokeCollection']:
                  for y in x['catJokes']:
                      if j_id == y['j_id']:
                          like = y['like']
                          dislike = y['dislike']
```

```
{
    "content": "c2story0",
    "dislike": 3,
    "id": 0,
    "j_id": "2026",
    "like": 3
}
```

6. Add a new category of jokes



```
Show examples in: CURL CLI Python JavaScript Java Objective-C Swift

{"content": "A customer smokes in a department store. The ma nager of the company stepped forward to stop it, 'Please don't smoke her e!' The customer refused to accept, 'Why do you sell cigarettes in the ma all?' The manager answered politely, 'We have condoms here, Do you want to do it on the spot?'", "dislike": 0, "id": 1, "like": 0},

{"content": "How strong you are? 'I always eat Mentos with c oca-cola.'", "dislike": 1, "id": 2, "like": 0}],

"id": 1,

"name": "EngineerJoke"
},

{"cottent": "c2story0", "dislike": 0, "id": 0, "like": 1},

{"content": "c2story1", "dislike": 0, "id": 2, "like": 0}],

"id": 2,

"name": "BlackHumor"
},

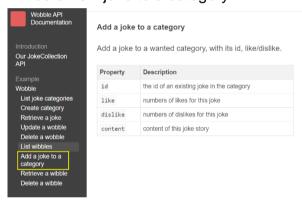
An empty category has been added.

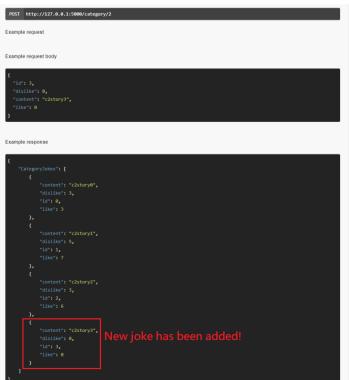
"catJokes": [],

"id": 3,

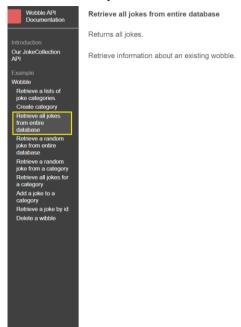
"name": "FinnishJokes"
}
]
]
```

7. Add a new joke to a category





8. Retrieve all joke from database





This is my first time to learn flask, I found flask is fun to do, although there is only 1 requirement is missing, but I still learned how to handle the request, specify the url to response and how to import html to working with, make the flask app more designable, which means I gained a lot in this project. Thank you.

Reference source:

https://flask.palletsprojects.com/en/1.1.x/tutorial/

https://www.freecodecamp.org/news/search/?query=flask

https://docs.python.org/3/tutorial/

https://en.wikipedia.org/wiki/Flask_(web_framework)

https://github.com/tmcw/docbox