

Практическая работа №7

Тема 7: Cloud Functions и API Gateway

Бот-переводчик для Telegram с использованием Cloud Functions и API Gateway

Адрес Cloud Function: <https://functions.yandexcloud.net/d4ecmt4pmp6bhe7fd3ce>

Скрин кода yandex cloud функции:

```
main.py > ...
1  import telebot
2  import requests
3  import json
4
5
6  API_TOKEN = '<token>'
7
8  bot = telebot.TeleBot(API_TOKEN)
9
10
11  Codeium: Refactor | Explain | Generate Docstring | X
12  def translate(text):
13      headers = {
14          "Content-Type": "application/json"
15      }
16      body = {
17          'q': text,
18          'source': "auto",
19          'target': "ru",
20          'format': "text",
21      }
22      req = requests.post('https://translate.flossboxin.org.in/translate', headers=headers, data=json.dumps(body))
23      trans_text = req.json()
24
25      return trans_text['translatedText']
26
27  Codeium: Refactor | Explain | Generate Docstring | X
28  @bot.message_handler(commands=['help', 'start'])
29  def send_welcome(message):
30      bot.reply_to(message, """\
31      Hi there, I am EchoBot.
32      I am here to echo your kind words back to you. Just say anything nice and I'll say the exact same thing to you!\
33      """)
34
35  Codeium: Refactor | Explain | Generate Docstring | X
36  @bot.message_handler(func=lambda message: True)
37  def echo_message(message):
38      bot.reply_to(message, translate(message.text))
39
40  Codeium: Refactor | Explain | Generate Docstring | X
41  def handler(event, context):
42      message = telebot.types.Update.de_json(event['body'])
43      bot.process_new_updates([message])
44      return {
45          'statusCode': 200,
46          'body': 'Hello World!',
47      }
```

Скрин API Gateway:

```
openapi: 3.0.0
info:
  title: Sample API
  version: 1.0.0
servers:
- url: https://d5db55774bqrd4i1srum.8wihnuyr.apigw.yandexcloud.net
paths:
  /:
    get:
      x-yc-apigateway-integration:
        type: dummy
        content:
          '*': Hello, World!
        http_code: 200
        http_headers:
          Content-Type: text/plain
    post:
      x-yc-apigateway-integration:
        type: cloud-functions
        function_id: d4ecmt4pmp6bhe7fd3ce
      operationId: tgbot
```

Ник Telegram-бота: @Ant_SI_bot