

Компьютерный практикум

Отчёт по практической работе GET и POST запросов

- 1.1) GET-запрос с помощью netcat на адрес meowfacts.herokuapp.com на порт 80 по протоколу HTTP 1.1. Запрос был успешно обработан сервером:

```
C:\Users\Anton>ncat -C meowfacts.herokuapp.com 80
GET / HTTP/1.1
Host: meowfacts.herokuapp.com

HTTP/1.1 200 OK
Server: Cowboy
Report-To: {"group":"heroku-nel","max_age":3600,"endpoints":[{"url":"https://nel.heroku.com/reports?ts=1740680313&sid=1b10b0ff-8a76-4548-befa-353fc6c6c045&s=vn1oxXom473CWvFkPLpJ51N3YvWbg3V1VOMsLqaVqmc%3D"}]}
Reporting-Endpoints: heroku-nel=https://nel.heroku.com/reports?ts=1740680313&sid=1b10b0ff-8a76-4548-befa-353fc6c6c045&s=vn1oxXom473CWvFkPLpJ51N3YvWbg3V1VOMsLqaVqmc%3D
Nel: {"report_to":"heroku-nel","max_age":3600,"success_fraction":0.005,"failure_fraction":0.05,"response_headers":["Via"]}
Connection: keep-alive
Content-Security-Policy: default-src 'self';base-uri 'self';font-src 'self' https: data;;form-action 'self';frame-ancestors 'self';img-src 'self' data;;object-src 'none';script-src 'self';script-src-attr 'none';style-src 'self' https: 'unsafe-inline';upgrade-insecure-requests
Cross-Origin-Opener-Policy: same-origin
Cross-Origin-Resource-Policy: same-origin
Origin-Agent-Cluster: ?1
Referrer-Policy: no-referrer
Strict-Transport-Security: max-age=15552000; includeSubDomains
X-Content-Type-Options: nosniff
X-Dns-Prefetch-Control: off
X-Download-Options: noopen
X-Frame-Options: SAMEORIGIN
X-Permitted-Cross-Domain-Policies: none
X-Xss-Protection: 0
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: Accept, Authorization, Content-Type, Origin, X-Requested-With
Access-Control-Allow-Methods: GET
Content-Type: application/json; charset=utf-8
Content-Length: 100
Etag: W/"64-d179rEAQxiBLWwhWLHz0kvtnaVU"
Date: Thu, 27 Feb 2025 18:18:33 GMT
Via: 1.1 vegur

{"data":["There are cats who have survived falls from over 32 stories (320 meters) onto concrete."]}
```

- 1.2) POST-запрос с помощью netcat на адрес httpbin.org на порт 80 по протоколу HTTP 1.1. В качестве тела запроса был передан json {"name": "test"}. Запрос и тело были успешно обработаны сервером:

```
Command Prompt - ncat -C t x + v
C:\Users\Anton>ncat -C httpbin.org 80
POST /post HTTP/1.1
Host: httpbin.org
Content-Type: application/json
Content-Length: 18

{"name":
"test"}
HTTP/1.1 200 OK
Date: Wed, 05 Mar 2025 19:12:57 GMT
Content-Type: application/json
Content-Length: 375
Connection: keep-alive
Server: gunicorn/19.9.0
Access-Control-Allow-Origin: *
Access-Control-Allow-Credentials: true

{
  "args": {},
  "data": "{\n  \"name\": \"test\"\n}",
  "files": {},
  "form": {},
  "headers": {
    "Content-Length": "18",
    "Content-Type": "application/json",
    "Host": "httpbin.org",
    "X-Amzn-Trace-Id": "Root=1-67c8a227-5d7f1f2b212b5fbd7a4c95f5"
  },
  "json": {
    "name": "test"
  },
  "origin": "78.37.132.34",
  "url": "http://httpbin.org/post"
}
```

2.1) GET- запрос с помощью curl на адрес meowfacts.herokuapp.com на порт 80 по протоколу HTTP 1.1. Запрос был успешно обработан сервером.

```

PS C:\Users\Anton> curl meowfacts.herokuapp.com

StatusCode      : 200
StatusDescription : OK
Content         : {"data":["Cats have over 20 muscles that control their ears
                  ."]}
RawContent      : HTTP/1.1 200 OK
                  Report-To: {"group":"heroku-nel","max_age":3600,"endpoints"
                  : [{"url":"https://nel.heroku.com/reports?ts=1740683192&sid=
                  1b10b0ff-8a76-4548-befa-353fc6c6c045&s=%2Bbjz0Upg5RQ3v9gtqc
                  7b8WTn...
Forms           : {}
Headers         : [{"Report-To", {"group":"heroku-nel","max_age":3600,"endpoint
                  s": [{"url":"https://nel.heroku.com/reports?ts=1740683192&si
                  d=1b10b0ff-8a76-4548-befa-353fc6c6c045&s=%2Bbjz0Upg5RQ3v9gt
                  qc7b8WTn8PHXQkvOdmcbi%2BNS5BU%3D"}]}], [{"Reporting-Endpoints
                  , heroku-nel=https://nel.heroku.com/reports?ts=1740683192&sid=
                  1b10b0ff-8a76-4548-befa-353fc6c6c045&s=%2Bbjz0Upg5RQ3v9g
                  tqc7b8WTn8PHXQkvOdmcbi%2BNS5BU%3D}], [{"Nel", {"report_to":"her
                  oku-nel","max_age":3600,"success_fraction":0.005,"failure_f
                  raction":0.05,"response_headers":["Via"]}]}], [{"Connection, ke
                  ep-alive"}]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 63

```

2.2) POST-запрос с помощью curl на адрес [httpbin.org](https://httpbin.org/post) на порт 80 по протоколу HTTP 1.1. В качестве тела запроса была передана форма name=AntSib. Запрос был успешно обработан сервером.

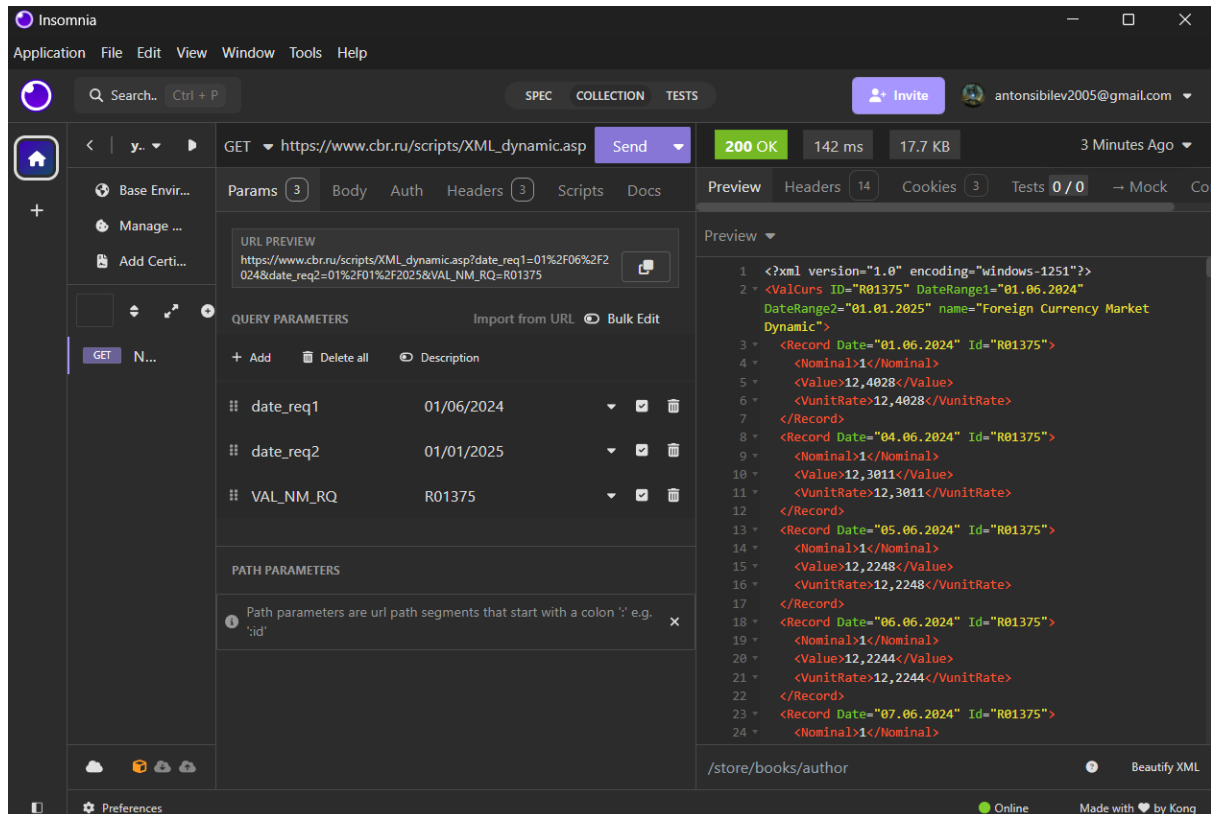
```

C:\Users\Anton> curl -X POST -d "name=AntSib" https://httpbin.org/post
{
  "args": {},
  "data": "",
  "files": {},
  "form": {
    "name": "AntSib"
  },
  "headers": {
    "Accept": "*/*",
    "Content-Length": "11",
    "Content-Type": "application/x-www-form-urlencoded",
    "Host": "httpbin.org",
    "User-Agent": "curl/8.10.1",
    "X-Amzn-Trace-Id": "Root=1-67c8a7d4-6b2600b6782ea73836cfc876"
  },
  "json": null,
  "origin": "78.37.132.34",
  "url": "https://httpbin.org/post"
}

```

3) GET-запрос с помощью Insomnia для получения курса йены за период с 1-го июня 2024 по 1-е января 2025 года. Для формирования запроса был введён адрес, заданы параметры начала периода “date_req”,

конца периода “date_req2” и параметр кода валюты “VAL_NM_RQ”. В качестве ответа от сервера был получен XML-ответ:



4) Запуск двух процессов netcat: сервер по адресу 127.0.0.1 (localhost) на порте 3030 и подключение к нему клиента:

```
Command Prompt - ncat -l 3030 X + v
Microsoft Windows [Version 10.0.22631.4890]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Anton>ncat -l 3030
Delta 1164, Landberg Tower, runway 9, line up and wait, traffic on at A9 mile fi
nal.
Line up and wait runway 9, Delta 1164
Lufthansa 5Y heavy, do you have C3?
Negative, 5Y.
Lufthansa 5Y heavy, continue down. Do you have room at C2 to exit or B1?
Lufthansa 5Y heavy, we'll check. Continue further down and we'll take C2, otherw
ise B1.
C2 is preffered, the left turn out, for Lufthansa 5Y heavy.
Copied, sorry. It did surprise us quite a bit for C3. Sorry.
No, you're fine. It was just a last minute plan.

Command Prompt - ncat localhost 3030 X + v
Microsoft Windows [Version 10.0.22631.4890]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Anton>ncat localhost 3030
Delta 1164, Landberg Tower, runway 9, line up and wait, traffic on at A9 mile fi
nal.
Line up and wait runway 9, Delta 1164
Lufthansa 5Y heavy, do you have C3?
Negative, 5Y.
Lufthansa 5Y heavy, continue down. Do you have room at C2 to exit or B1?
Lufthansa 5Y heavy, we'll check. Continue further down and we'll take C2, otherw
ise B1.
C2 is preffered, the left turn out, for Lufthansa 5Y heavy.
Copied, sorry. It did surprise us quite a bit for C3. Sorry.
No, you're fine. It was just a last minute plan.
```