**Министерство науки и высшего образования Российской Федерации** **Федеральное государственное бюджетное образовательное учреждение высшего образования** **«Московский государственный технический университет** **имени Н.Э. Баумана**

**(национальный исследовательский университет)»**

**(МГТУ им. Н.Э. Баумана)**

**Факультет «Информатика и системы управления»**

**Кафедра ИУ5 «Системы обработки информации и управления»**

Домашнее задание №2

по дисциплине «Программирование сетевых приложений»

Выполнил:

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**Описание задания:**

Составить json коллекцию v2.1, которая должна быть вложена в мр. Минимум 3 запроса, желательно json. Сайт - [habr.com](https://vk.com/away.php?to=http%3A%2F%2Fhabr.com&cc_key=).

**json файл:**

{  
 "info": {  
 "\_postman\_id": "84521bc9-3e3c-49ec-819f-2c20a1e54008",  
 "name": "TASK2\_HABR",  
 "schema": "https://schema.getpostman.com/json/collection/v2.1.0/collection.json"  
 },  
 "item": [  
 {  
 "name": "Get",  
 "item": [  
 {  
 "name": "https://habr.com/ru/all/",  
 "request": {  
 "method": "GET",  
 "header": [  
 {  
 "key": "Connection",  
 "value": "keep-alive"  
 },  
 {  
 "key": "Cache-Control",  
 "value": "max-age=0"  
 },  
 {  
 "key": "sec-ch-ua",  
 "value": "\" Not A;Brand\";v=\"99\", \"Chromium\";v=\"96\", \"Yandex\";v=\"22\""  
 },  
 {  
 "key": "sec-ch-ua-mobile",  
 "value": "?0"  
 },  
 {  
 "key": "sec-ch-ua-platform",  
 "value": "\"Windows\""  
 },  
 {  
 "key": "Upgrade-Insecure-Requests",  
 "value": "1"  
 },  
 {  
 "key": "User-Agent",  
 "value": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.174 YaBrowser/22.1.4.837 Yowser/2.5 Safari/537.36"  
 },  
 {  
 "key": "Accept",  
 "value": "text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3;q=0.9"  
 },  
 {  
 "key": "Sec-Fetch-Site",  
 "value": "same-origin"  
 },  
 {  
 "key": "Sec-Fetch-Mode",  
 "value": "navigate"  
 },  
 {  
 "key": "Sec-Fetch-User",  
 "value": "?1"  
 },  
 {  
 "key": "Sec-Fetch-Dest",  
 "value": "document"  
 },  
 {  
 "key": "Referer",  
 "value": "http://away.vk.com/"  
 },  
 {  
 "key": "Accept-Language",  
 "value": "ru,en;q=0.9"  
 },  
 {  
 "key": "Cookie",  
 "value": "feature\_streaming\_comments=true; fl=ru; hl=ru; visited\_articles=47031; habr\_web\_home\_feed=/all/"  
 }  
 ],  
 "url": {  
 "raw": "https://habr.com/ru/all/",  
 "protocol": "https",  
 "host": [  
 "habr",  
 "com"  
 ],  
 "path": [  
 "ru",  
 "all",  
 ""  
 ]  
 }  
 },  
 "response": []  
 },  
 {  
 "name": "https://habr.com/ru/sandbox/start/",  
 "protocolProfileBehavior": {  
 "disableBodyPruning": true  
 },  
 "request": {  
 "method": "GET",  
 "header": [  
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 "key": "Connection",  
 "value": "keep-alive"  
 },  
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 "key": "Cache-Control",  
 "value": "max-age=0"  
 },  
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 "key": "sec-ch-ua",  
 "value": "\" Not A;Brand\";v=\"99\", \"Chromium\";v=\"96\", \"Yandex\";v=\"22\""  
 },  
 {  
 "key": "sec-ch-ua-mobile",  
 "value": "?0"  
 },  
 {  
 "key": "sec-ch-ua-platform",  
 "value": "\"Windows\""  
 },  
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 "key": "Upgrade-Insecure-Requests",  
 "value": "1"  
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 "key": "User-Agent",  
 "value": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.174 YaBrowser/22.1.4.837 Yowser/2.5 Safari/537.36"  
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 "value": "text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3;q=0.9"  
 },  
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 "key": "Sec-Fetch-Site",  
 "value": "same-origin"  
 },  
 {  
 "key": "Sec-Fetch-Mode",  
 "value": "navigate"  
 },  
 {  
 "key": "Sec-Fetch-User",  
 "value": "?1"  
 },  
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 "key": "Sec-Fetch-Dest",  
 "value": "document"  
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 "key": "Referer",  
 "value": "https://habr.com/ru/flows/popsci/"  
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 "key": "Accept-Language",  
 "value": "ru,en;q=0.9"  
 },  
 {  
 "key": "Cookie",  
 "value": "feature\_streaming\_comments=true; fl=ru; hl=ru; visited\_articles=47031; habr\_web\_home\_feed=/news/page4/"  
 }  
 ],  
 "body": {  
 "mode": "raw",  
 "raw": "",  
 "options": {  
 "raw": {  
 "language": "text"  
 }  
 }  
 },  
 "url": {  
 "raw": "https://habr.com/ru/sandbox/start/",  
 "protocol": "https",  
 "host": [  
 "habr",  
 "com"  
 ],  
 "path": [  
 "ru",  
 "sandbox",  
 "start",  
 ""  
 ]  
 }  
 },  
 "response": []  
 },  
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 "name": "https://habr.com/ru/flows/develop/hubs/",  
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 "disableBodyPruning": true  
 },  
 "request": {  
 "method": "GET",  
 "header": [  
 {  
 "key": "Connection",  
 "value": "keep-alive"  
 },  
 {  
 "key": "Cache-Control",  
 "value": "max-age=0"  
 },  
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 "key": "sec-ch-ua",  
 "value": "\" Not A;Brand\";v=\"99\", \"Chromium\";v=\"96\", \"Yandex\";v=\"22\""  
 },  
 {  
 "key": "sec-ch-ua-mobile",  
 "value": "?0"  
 },  
 {  
 "key": "sec-ch-ua-platform",  
 "value": "\"Windows\""  
 },  
 {  
 "key": "Upgrade-Insecure-Requests",  
 "value": "1"  
 },  
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 "key": "User-Agent",  
 "value": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.174 YaBrowser/22.1.4.837 Yowser/2.5 Safari/537.36"  
 },  
 {  
 "key": "Accept",  
 "value": "text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3;q=0.9"  
 },  
 {  
 "key": "Sec-Fetch-Site",  
 "value": "same-origin"  
 },  
 {  
 "key": "Sec-Fetch-Mode",  
 "value": "navigate"  
 },  
 {  
 "key": "Sec-Fetch-User",  
 "value": "?1"  
 },  
 {  
 "key": "Sec-Fetch-Dest",  
 "value": "document"  
 },  
 {  
 "key": "Referer",  
 "value": "http://away.vk.com/"  
 },  
 {  
 "key": "Accept-Language",  
 "value": "ru,en;q=0.9"  
 },  
 {  
 "key": "Cookie",  
 "value": "feature\_streaming\_comments=true; fl=ru; hl=ru; visited\_articles=47031; habr\_web\_home\_feed=/all/"  
 }  
 ],  
 "body": {  
 "mode": "raw",  
 "raw": ""  
 },  
 "url": {  
 "raw": "https://habr.com/ru/flows/develop/hubs/",  
 "protocol": "https",  
 "host": [  
 "habr",  
 "com"  
 ],  
 "path": [  
 "ru",  
 "flows",  
 "develop",  
 "hubs",  
 ""  
 ]  
 }  
 },  
 "response": []  
 },  
 {  
 "name": "https://habr.com/ru/hub/itcompanies/",  
 "protocolProfileBehavior": {  
 "disableBodyPruning": true  
 },  
 "request": {  
 "method": "GET",  
 "header": [  
 {  
 "key": "Connection",  
 "value": "keep-alive"  
 },  
 {  
 "key": "Cache-Control",  
 "value": "max-age=0"  
 },  
 {  
 "key": "sec-ch-ua",  
 "value": "\" Not A;Brand\";v=\"99\", \"Chromium\";v=\"96\", \"Yandex\";v=\"22\""  
 },  
 {  
 "key": "sec-ch-ua-mobile",  
 "value": "?0"  
 },  
 {  
 "key": "sec-ch-ua-platform",  
 "value": "\"Windows\""  
 },  
 {  
 "key": "Upgrade-Insecure-Requests",  
 "value": "1"  
 },  
 {  
 "key": "User-Agent",  
 "value": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.174 YaBrowser/22.1.4.837 Yowser/2.5 Safari/537.36"  
 },  
 {  
 "key": "Accept",  
 "value": "text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3;q=0.9"  
 },  
 {  
 "key": "Sec-Fetch-Site",  
 "value": "same-origin"  
 },  
 {  
 "key": "Sec-Fetch-Mode",  
 "value": "navigate"  
 },  
 {  
 "key": "Sec-Fetch-User",  
 "value": "?1"  
 },  
 {  
 "key": "Sec-Fetch-Dest",  
 "value": "document"  
 },  
 {  
 "key": "Referer",  
 "value": "http://away.vk.com/"  
 },  
 {  
 "key": "Accept-Language",  
 "value": "ru,en;q=0.9"  
 },  
 {  
 "key": "Cookie",  
 "value": "feature\_streaming\_comments=true; fl=ru; hl=ru; visited\_articles=47031; habr\_web\_home\_feed=/all/"  
 }  
 ],  
 "body": {  
 "mode": "raw",  
 "raw": ""  
 },  
 "url": {  
 "raw": "https://habr.com/ru/hub/itcompanies/",  
 "protocol": "https",  
 "host": [  
 "habr",  
 "com"  
 ],  
 "path": [  
 "ru",  
 "hub",  
 "itcompanies",  
 ""  
 ]  
 }  
 },  
 "response": []  
 }  
 ]  
 },  
 {  
 "name": "Post",  
 "item": [  
 {  
 "name": "https://effect.habr.com/a",  
 "request": {  
 "method": "POST",  
 "header": [  
 {  
 "key": "Connection",  
 "value": "keep-alive"  
 },  
 {  
 "key": "sec-ch-ua",  
 "value": "\" Not A;Brand\";v=\"99\", \"Chromium\";v=\"96\", \"Yandex\";v=\"22\""  
 },  
 {  
 "key": "Accept",  
 "value": "application/json, text/plain, \*/\*"  
 },  
 {  
 "key": "Content-Type",  
 "value": "application/x-www-form-urlencoded"  
 },  
 {  
 "key": "sec-ch-ua-mobile",  
 "value": "?0"  
 },  
 {  
 "key": "User-Agent",  
 "value": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.174 YaBrowser/22.1.4.837 Yowser/2.5 Safari/537.36"  
 },  
 {  
 "key": "sec-ch-ua-platform",  
 "value": "\"Windows\""  
 },  
 {  
 "key": "Origin",  
 "value": "https://habr.com"  
 },  
 {  
 "key": "Sec-Fetch-Site",  
 "value": "same-site"  
 },  
 {  
 "key": "Sec-Fetch-Mode",  
 "value": "cors"  
 },  
 {  
 "key": "Sec-Fetch-Dest",  
 "value": "empty"  
 },  
 {  
 "key": "Referer",  
 "value": "https://habr.com/ru/hub/itcompanies/"  
 },  
 {  
 "key": "Accept-Language",  
 "value": "ru,en;q=0.9"  
 }  
 ],  
 "body": {  
 "mode": "raw",  
 "raw": "",  
 "options": {  
 "raw": {  
 "language": "text"  
 }  
 }  
 },  
 "url": {  
 "raw": "https://effect.habr.com/a",  
 "protocol": "https",  
 "host": [  
 "effect",  
 "habr",  
 "com"  
 ],  
 "path": [  
 "a"  
 ]  
 }  
 },  
 "response": []  
 },  
 {  
 "name": "https://habr.com/kek/v1/articles/511114/pageview",  
 "request": {  
 "method": "POST",  
 "header": [  
 {  
 "key": "Connection",  
 "value": "keep-alive"  
 },  
 {  
 "key": "sec-ch-ua",  
 "value": "\" Not A;Brand\";v=\"99\", \"Chromium\";v=\"96\", \"Yandex\";v=\"22\""  
 },  
 {  
 "key": "x-app-version",  
 "value": "2.66.0"  
 },  
 {  
 "key": "sec-ch-ua-mobile",  
 "value": "?0"  
 },  
 {  
 "key": "User-Agent",  
 "value": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.174 YaBrowser/22.1.5.810 Yowser/2.5 Safari/537.36"  
 },  
 {  
 "key": "Content-Type",  
 "value": "application/json"  
 },  
 {  
 "key": "Accept",  
 "value": "application/json, text/plain, \*/\*"  
 },  
 {  
 "key": "csrf-token",  
 "value": "pFXMHsrs-HnKHoVRTa\_jRuyjQAKpIAKutZ3o"  
 },  
 {  
 "key": "sec-ch-ua-platform",  
 "value": "\"Windows\""  
 },  
 {  
 "key": "Origin",  
 "value": "https://habr.com"  
 },  
 {  
 "key": "Sec-Fetch-Site",  
 "value": "same-origin"  
 },  
 {  
 "key": "Sec-Fetch-Mode",  
 "value": "cors"  
 },  
 {  
 "key": "Sec-Fetch-Dest",  
 "value": "empty"  
 },  
 {  
 "key": "Referer",  
 "value": "https://habr.com/ru/post/511114/"  
 },  
 {  
 "key": "Accept-Language",  
 "value": "ru,en;q=0.9"  
 },  
 {  
 "key": "Cookie",  
 "value": "feature\_streaming\_comments=true; fl=ru; hl=ru; connect\_sid=s%3AmFqT-RkdE3pFVMydaGUSujdrgiPCxey3.ZElYalDIZ690YsLwoaVaftoQxnvZ2zJNxdhAf2hhjks; habrsession\_id=habrsession\_id\_a54b0ec8c4db0385fc29f5864c0bf00c; habr\_web\_home\_feed=/all/; visited\_articles=511114:47031"  
 }  
 ],  
 "body": {  
 "mode": "raw",  
 "raw": "{}",  
 "options": {  
 "raw": {  
 "language": "text"  
 }  
 }  
 },  
 "url": {  
 "raw": "https://habr.com/kek/v1/articles/511114/pageview",  
 "protocol": "https",  
 "host": [  
 "habr",  
 "com"  
 ],  
 "path": [  
 "kek",  
 "v1",  
 "articles",  
 "511114",  
 "pageview"  
 ]  
 }  
 },  
 "response": []  
 }  
 ]  
 }  
 ]  
}

Я взял 4 запроса GET и 2 запроса POST с сайта [habr.com](https://vk.com/away.php?to=http%3A%2F%2Fhabr.com&cc_key=).

Чем отличаются GET и POST запросы:

GET — метод для чтения данных с сайта. Например, для доступа к указанной странице. Он говорит серверу, что клиент хочет прочитать указанный документ. POST — метод для отправки данных на сайт. Чаще всего с помощью метода POST передаются формы.

В GET-запросе информация передаётся прямо в заголовке. В POST-запросе информация передаётся в теле запроса.

GET-запросы лучше не использовать с приватной информацией, так как:

* они кэшируются. Это значит, что логин и пароль, переданные через GET-запрос, могут остаться в интернете навсегда, например, в веб-архиве или кэше Гугла.
* остаются в истории браузера. Чтобы узнать, какие данные отправлялись, достаточно нажать Ctrl+H.
* сохраняются в закладках и пересылаются. Можно не обратить внимания и опубликовать в соцсетях или отправить ссылку с приватной информацией в GET-запросе.
* сохраняются в логах сервера. Например, нельзя отправлять данные банковских карт через GET-запрос, так как это создаёт риски для пользователей.

Таким образом, любые важные данные — логины, пароли, данные карты, персональные данные — лучше передавать с помощью метода POST.