

## Взаимодействие клиента и сервера.

Клиент – это заказчик той или иной услуги, а сервер – поставщик услуг. Клиент и сервер физически представляют собой программы, например, типичным клиентом является браузер. Принцип клиент-сервер основан на том, что клиент отправляет запрос серверу, а сервер отвечает ему. Данные запрос-ответы могут выглядеть по-разному, могут использоваться разные протоколы, такие как tcp/ip, http, rdp и много других.

Клиент и сервер взаимодействуют друг с другом при помощи различных сетевых протоколов. Сообщения, которые посылают клиенты получили названия HTTP запросы. Запросы имеют специальные методы, которые говорят серверу о том, как обрабатывать сообщение. А сообщения, которые посылает сервер получили название HTTP ответы, они содержат помимо полезной информации еще и специальные коды состояния, которые позволяют браузеру узнать то, как сервер понял его запрос.

В основе взаимодействия клиент-сервер лежит принцип того, что такое взаимодействие начинает клиент, сервер лишь отвечает клиенту и сообщает о том может ли он предоставить услугу клиенту и если может, то на каких условиях. Клиент отправляет запрос, а сервер возвращает ответ. Для взаимодействия компьютеры должны иметь общий язык, и они должны следовать правилам, чтобы и клиент, и сервер знали, чего ожидать. Язык и правила общения определены в протоколе связи. Все протоколы клиент-серверной модели работают на уровне приложений. Протокол прикладного уровня определяет основные шаблоны диалога.

Чтобы ещё больше формализовать обмен данными, сервер может реализовать интерфейс прикладного программирования (API). API — это уровень абстракции для доступа к сервису. Ограничивая связь определённым форматом контента, он облегчает синтаксический анализ. Абстрагируя доступ, он облегчает межплатформенный обмен данными.

Сервер может получать запросы от множества различных клиентов за короткий период времени. Компьютер может выполнять только ограниченное количество задач в любой момент и полагается на систему планирования для определения приоритетов входящих запросов от клиентов для их удовлетворения.

Все сайты в Интернете располагаются где-то на серверах (хостинге), а Вы соответственно хотите получить доступ к ним и для этого используете браузер и в данном случае браузер и есть клиент, а файлы на хостинге сервер. Если разбирать отдельно взятый сайт, то здесь также присутствует данное взаимодействие, к примеру, в браузере Вы видите всего лишь интерфейс приложения и при любых Ваших действиях на этом сайте данный интерфейс будет отправлять запрос серверу который выполнит все что Вы запросили и пришлет ответ, а клиент в свою очередь отобразит этот ответ, для того чтобы пользователь смог увидеть его.

### Примеры:

#### Ввод адреса доставки:

#### Запрос:

```
GET https://api-  
maps.yandex.ru/services/search//v2/?callback=id_16676581182654305032&text=59.91292913375632%2C30.292  
98464056775&format=json&rsn=0&lang=ru_RU&token=445db412edd08bf71465133912bbb950&type=geo&pro
```

perties=addressdetails&geocoder\_sco=latlong&origin=jsapi2Geocoder&apikey=47042de8-7735-4996-8e28-7cd4a1caeb11 HTTP/1.1  
Host: api-maps.yandex.ru  
Connection: keep-alive  
Accept: \*/\*  
User-Agent: Mozilla/5.0 (iPhone; CPU iPhone OS 15\_7 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/15.6,2 Mobile/15E148 Safari/604.1  
Accept-Language: ru  
Referer: https://sbermarket.ru/  
Accept-Encoding: gzip, deflate, br

## Ответ:

HTTP/1.1 200 OK  
Content-Type: text/javascript; charset=utf-8  
Date: Sat, 05 Nov 2022 14:22:49 GMT  
ETag: W/"3f7b-piiARP4CMuumxeQslhlgD25QOFs"  
Set-Cookie: \_yasc=jmqG4d6a8sfC6dc689cQgpz3VSLYAJNiuokcVaKsbC6EpwONFGPDELcWc7k=; domain=.yandex.ru; path=/; expires=Tue, 02-Nov-2032 14:22:49 GMT; secure  
Set-Cookie: i=l48p7Q9ynSn00p+O6NXErX4DBos+On///OWclCVs8R9IVTjKn01bq2/TmZCp06HDhuV/H9lWHNTUC+BGq1khhRa6s cQ=; Expires=Mon, 04-Nov-2024 14:22:49 GMT; Domain=.yandex.ru; Path=/; Secure; HttpOnly  
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```

## Запрос списка магазинов, производящих доставку по введенному адресу:

### Запрос:

```
GET https://api.sbermarket.ru/v2/retailers?with_stores_total=1&shipping_method=pickup&city_id=42 HTTP/1.1  
Host: api.sbermarket.ru  
Accept: */*  
Client-Id: SbermarketIOS  
Accept-Language: ru  
BackendUserUUID: 4a29348f-ed3b-4e01-a5cf-61f1f3aae01e  
Accept-Encoding: gzip, deflate, br  
Cache-Control: no-cache  
Client-Ver: 6.31.1  
User-Agent: Sbermarket/6.31.1 (iPhone; iOS 15.7)  
Connection: keep-alive  
AnonymousId: fb5dc34e-6ca7-4896-af62-12fd9ec3112d  
ScreenName: unknown  
Client-Token: 1a8693e1530e4e68b23485d6da585ff1
```

### Ответ:

```
HTTP/1.1 200 OK  
Server: nginx  
Date: Sat, 05 Nov 2022 14:50:17 GMT  
Content-Type: application/json; charset=utf-8  
Connection: keep-alive  
Vary: Accept-Encoding  
Vary: Accept-Encoding  
etag: W/"f2066ec81c141a7d72c20b63a50e73bc"  
cache-control: max-age=0, private, must-revalidate  
x-request-id: 5127d641-ffff-48cd-ab02-15d070cdb1a4  
x-runtime: 0.141162  
vary: Origin  
strict-transport-security: max-age=631138519  
x-frame-options: SAMEORIGIN  
x-content-type-options: nosniff  
x-xss-protection: 1; mode=block  
x-download-options: noopen  
x-permitted-cross-domain-policies: none  
content-security-policy: frame-ancestors 'self'  
X-NGENIX-Cache: MISS  
X-NGENIX-Cache: MISS  
Content-Length: 14034
```

{ "retailers": [ { "id": 1, "name": "METRO", "slug": "metro", "color": "#002d72", "logo\_background\_color": "#0f447c", "logo": "https://sbermarket.ru/statics/retailer\_banners/1/logo\_images/Metro.png?1658923296", "available": true, "environment": "production", "stores\_count": 3, "appearance": { "background\_color": "#0f447c", "image\_color": "#0f447c", "black\_theme": false, "logo\_image": "https://sbermarket.ru/statics/retailer\_banners/1/logo\_images/Metro.png?1658923296", "side\_image": "https://sbermarket.ru/statics/retailer\_banners/1/side\_images/lmg-min.jpg?1658923296", "mini\_logo\_image": "https://sbermarket.ru/statics/retailer\_banners/1/mini\_logo\_images/Metro.png?1658923296", "requirements": [ ] }, { "id": 15, "name": "АШАН", "slug": "auchan", "color": "#d32c22", "logo\_background\_color": "#ffffff", "logo": "https://sbermarket.ru/statics/retailer\_banners/2/logo\_images/logo\_auchan\_2022\_09\_14.png?1663145022", "available": true, "environment": null, "stores\_count": 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```

**В приведенных примерах запросов происходит передача данных.**

**В результате обработки данных в ответе на второй запрос формируется список магазинов, из которых производится доставка на введенный адрес, введенный в первом запросе.**