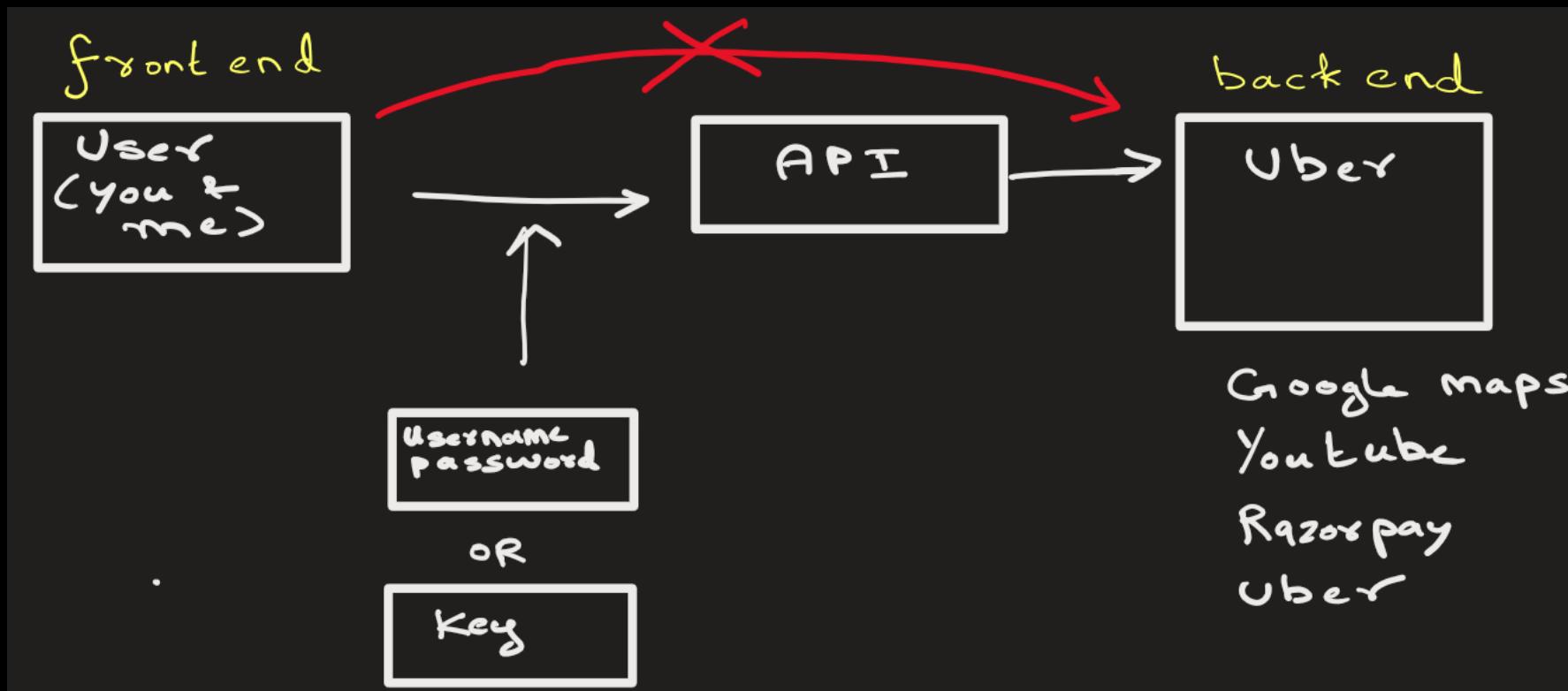




API

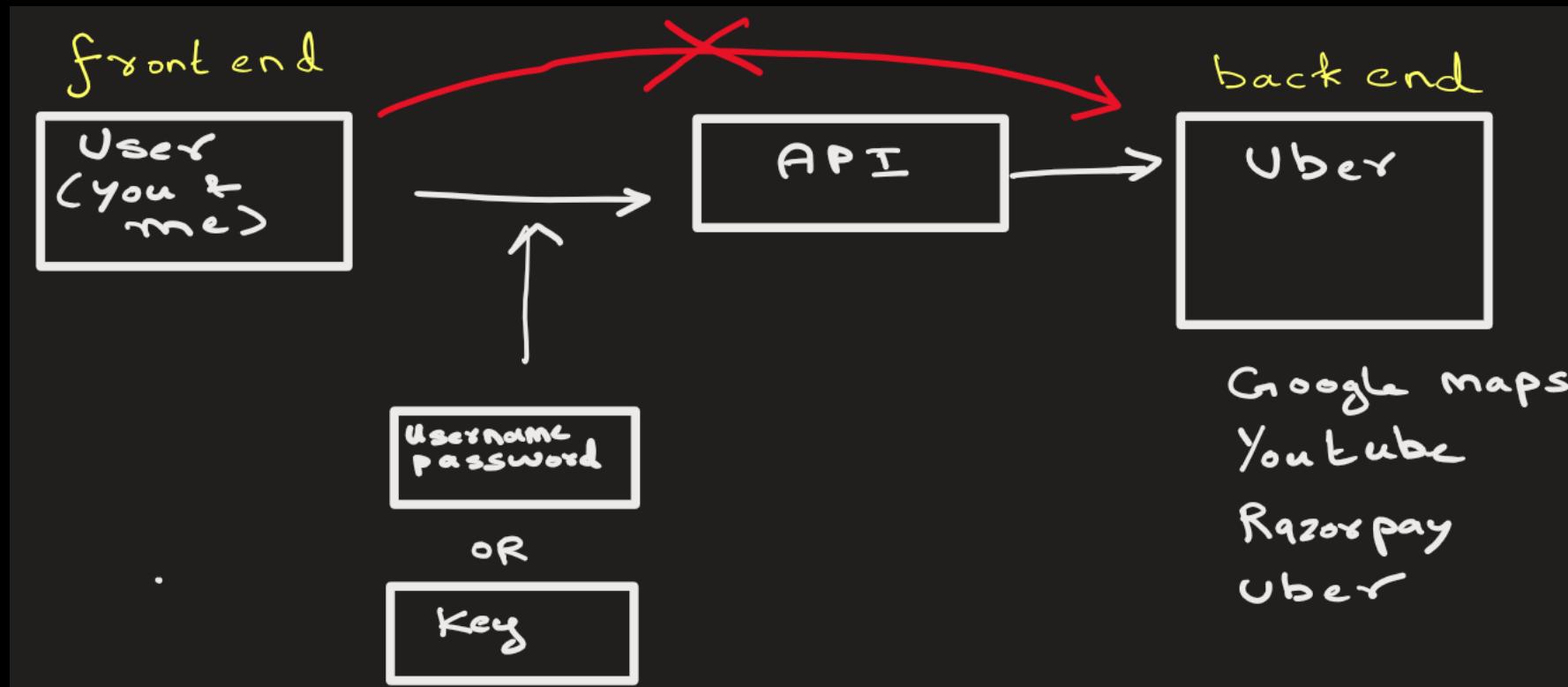
Application Programming Interface

API allows one program (Python) to talk to another software (Server)



The companies provide API so that the user can access certain information from their database.

The **backend** does not want everybody accessing every information from their database. So, they provide **API endpoints**.

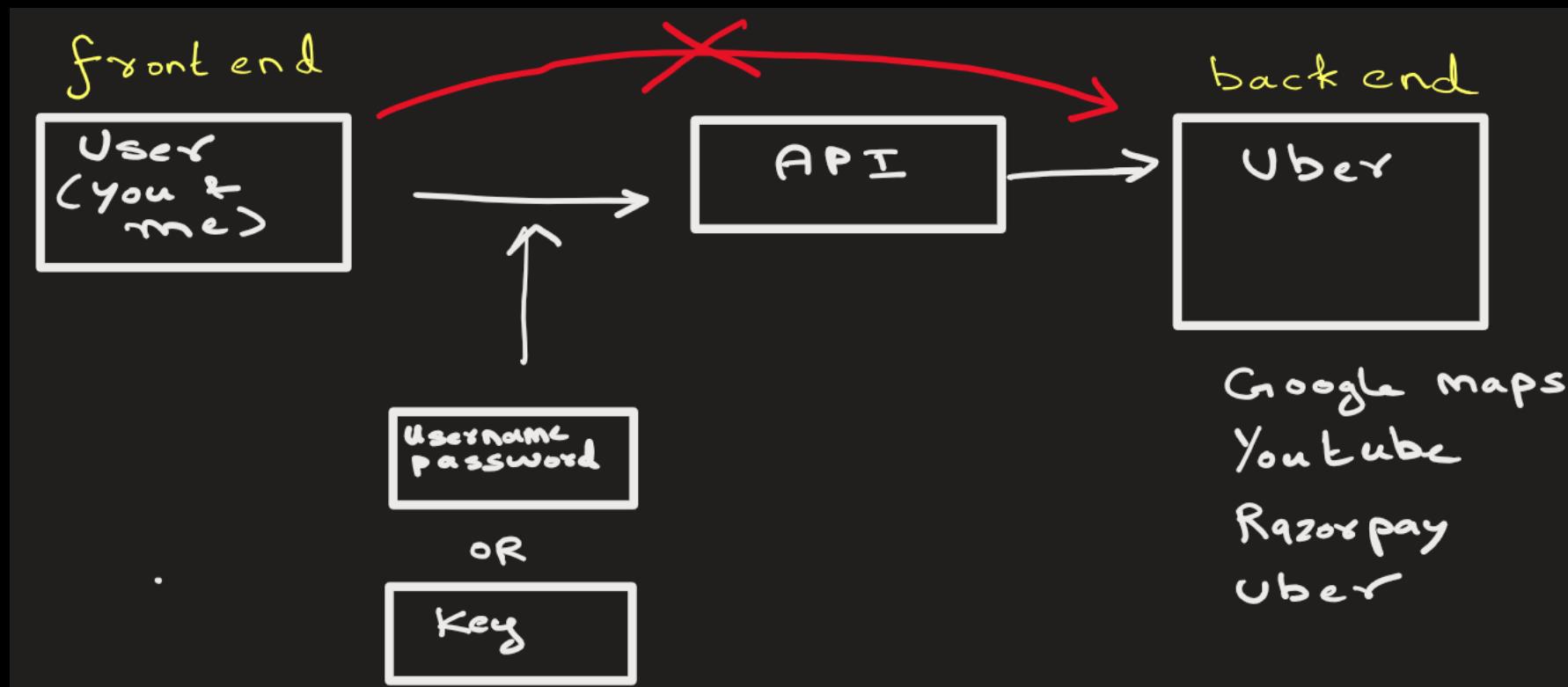




Uber may provide different API endpoints for different services:

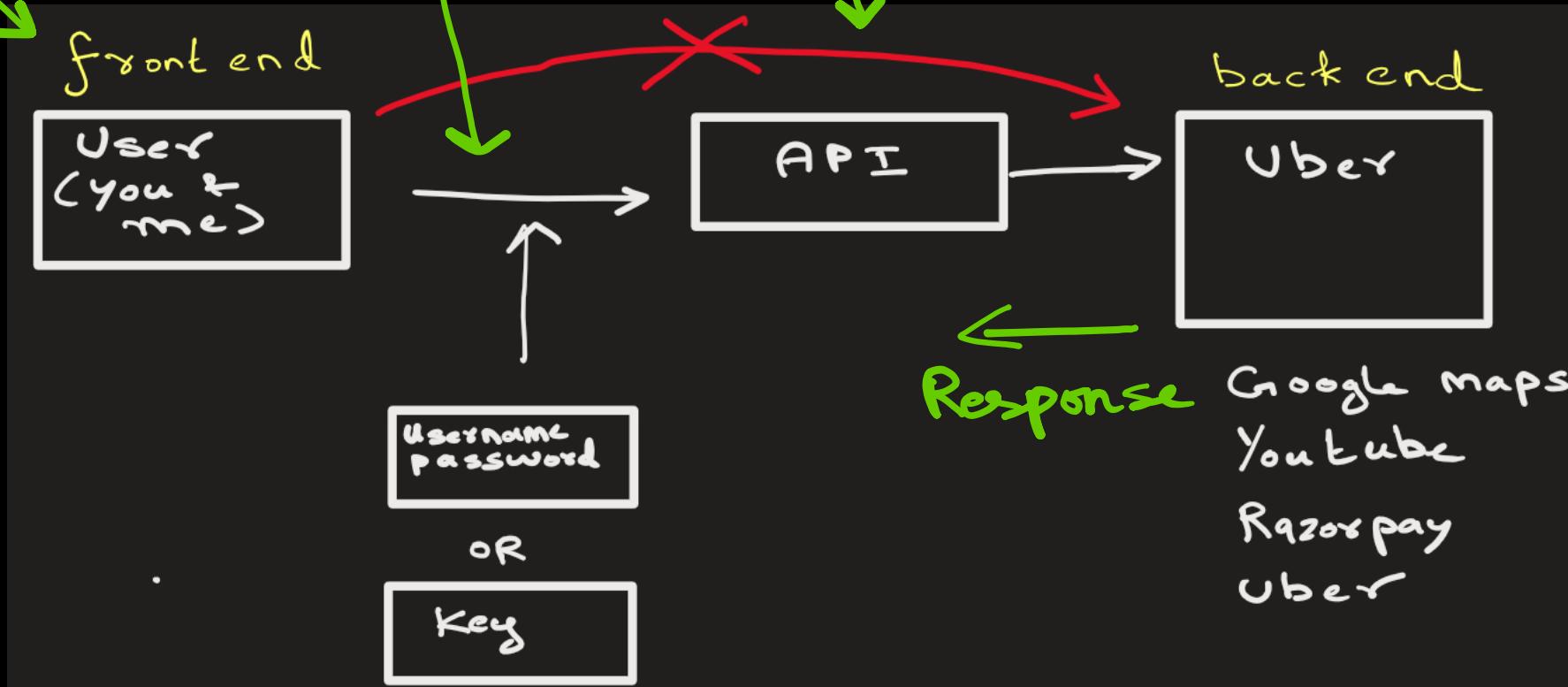
- Get Price estimate: <https://api.uber.com/estimates/price>
- View Payment history: <https://api.uber.com/estimates/phistory/?id=231>

Company may limit request limits to 100 per hours



Key terms

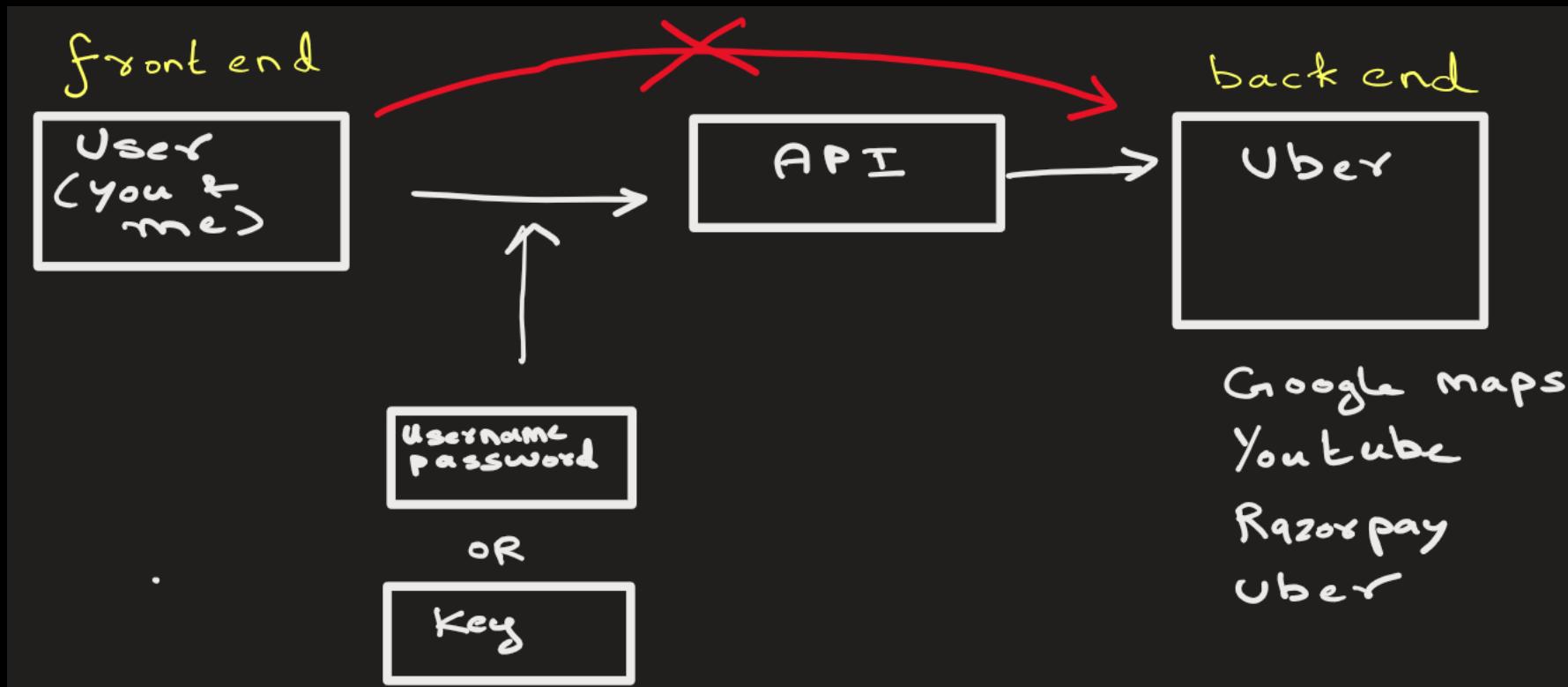
- Client (Python) - user
- API Endpoint (URL) - <https://jsonplaceholder.typicode.com/users>
- HTTP Method (GET) - Or POST, etc
- Response (JSON)



Example of Response (JSON)

Full API Response:

```
{"id": 1, "name": "Leanne Graham", "username": "Bret", "email": "Sincere@april.biz", "address": {"street": "Kulas Light", "suite": "Apt. 556", "city": "Gwenborough", "zipcode": "92998-3874", "geo": {"lat": "-37.3159", "lng": "81.1496"}}, "phone": "1-770-736-8031 x56442", "website": "hildegard.org", "company": {"name": "Romaguera-Crona", "catchPhrase": "Multi-layered client-server neural-net", "bs": "harness real-time e-markets"}}
```



How to use API ?

- Ans: Read API –Docs provided by the company. It can be tedious.

