

Lesson 4

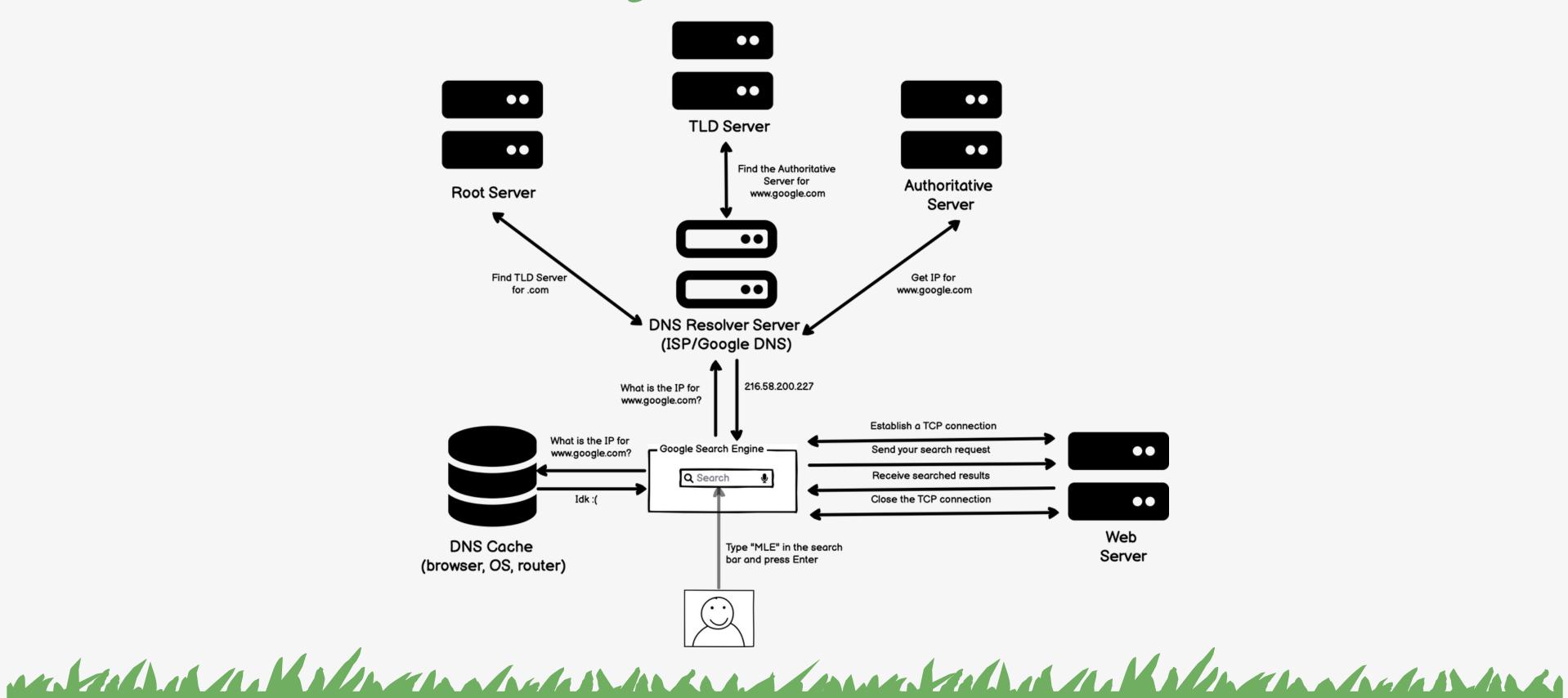
Web APIS

How to communicate with a remote resource?

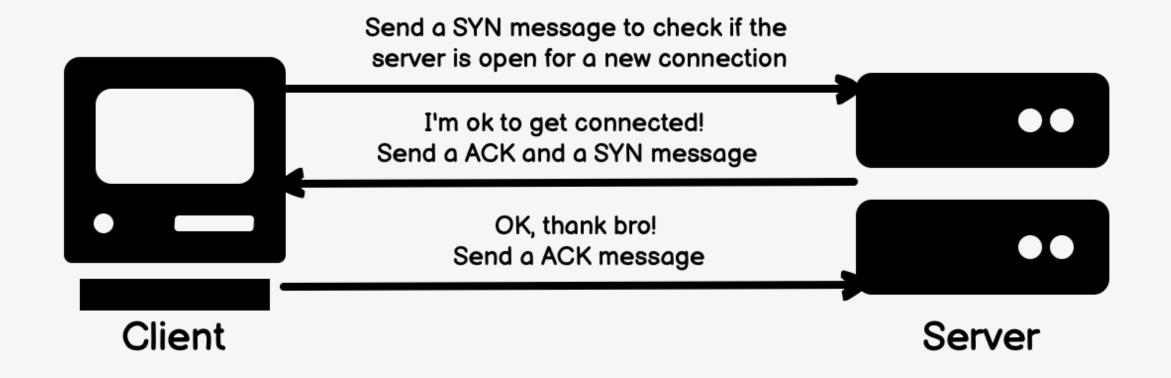


- Behind a Google Search
- API Architecture Styles
- Software Testing
- Improve API performance

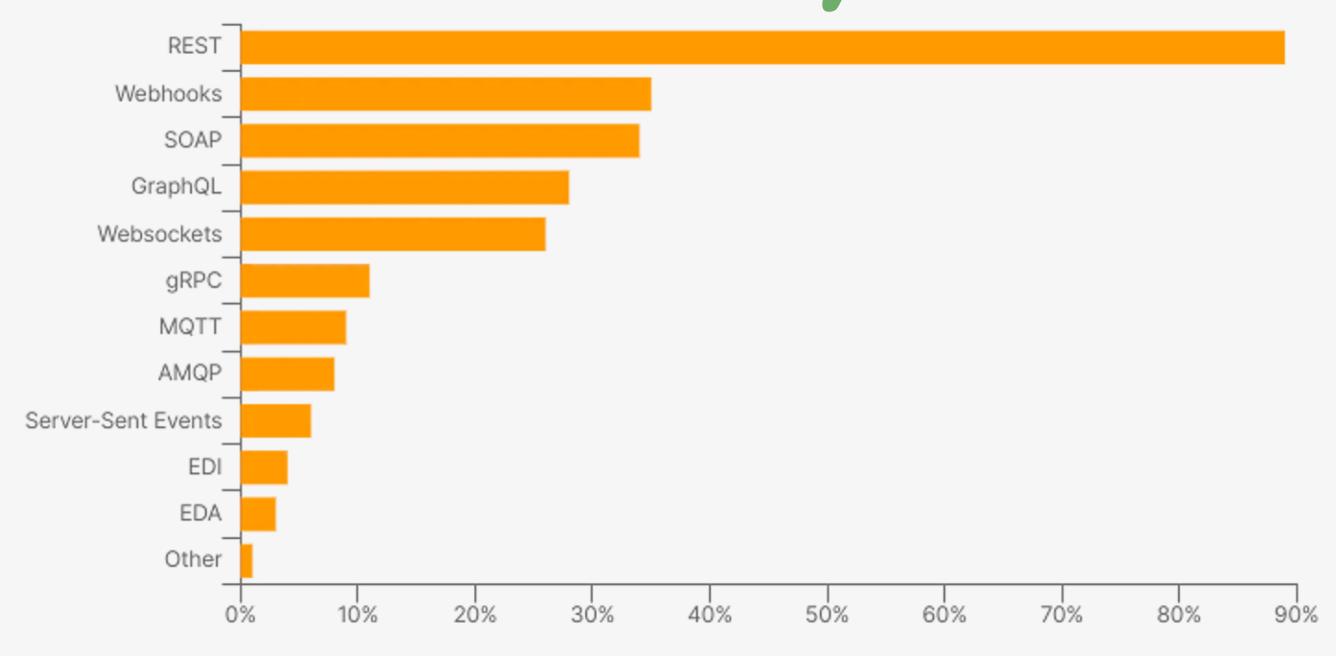
Behind a Google Search



TCP 3-way handshake



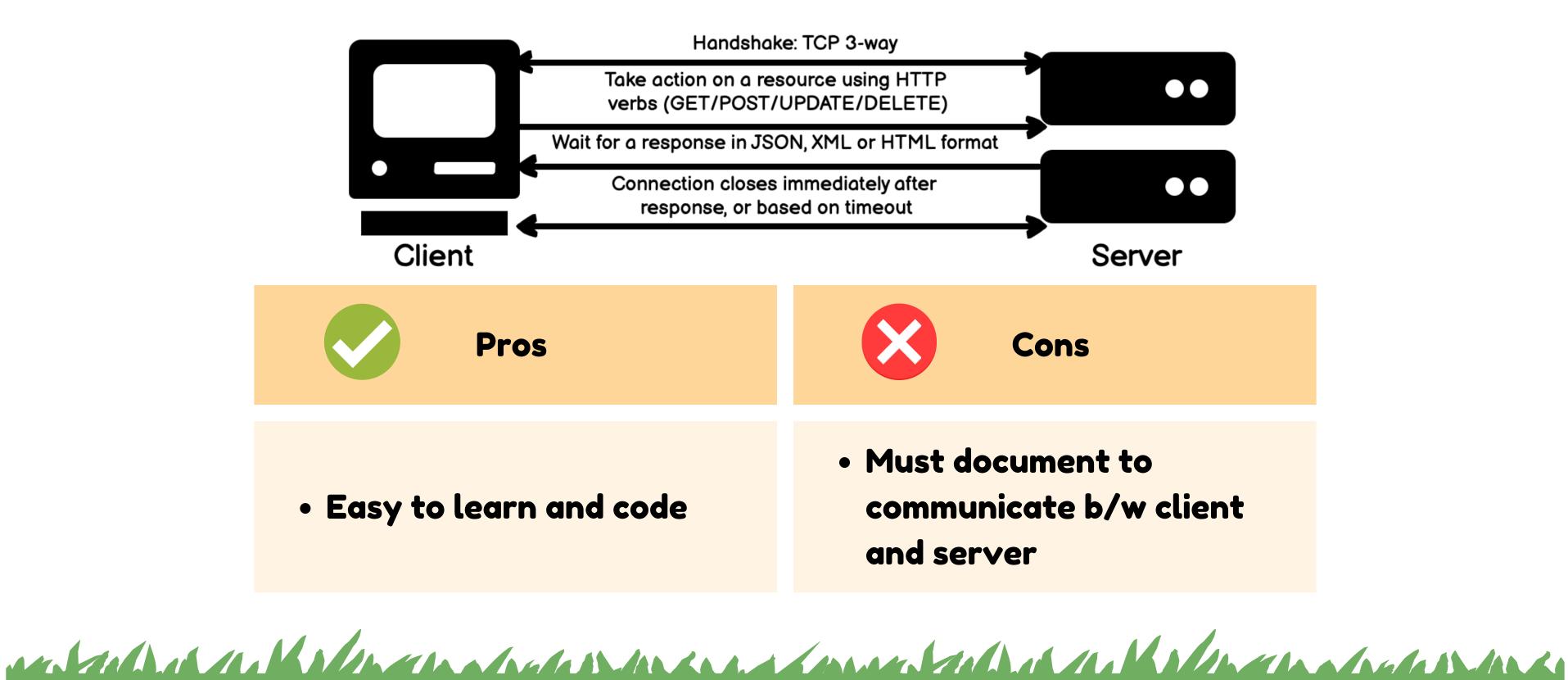
API Architecture Styles



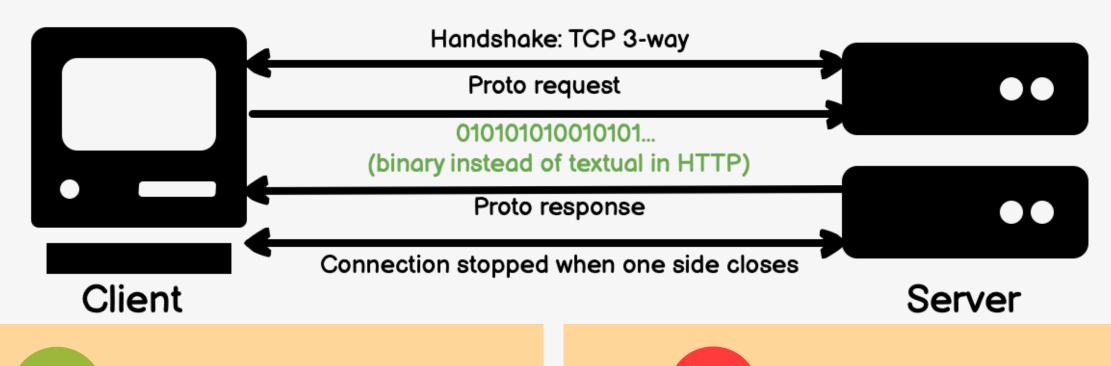
Multiple choices allowed

Multiple choices allowed

REST API



gRPC



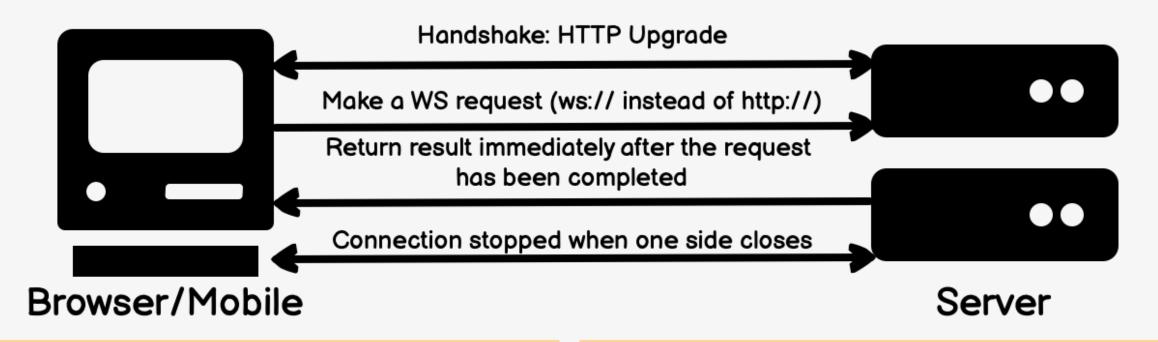
- Strongly typed
- Lightweight messages result in faster communication

Pros

Support streaming

- Cons
- Lack of maturity
- Can't call a gRPC service from a web browser directly

WebSocket

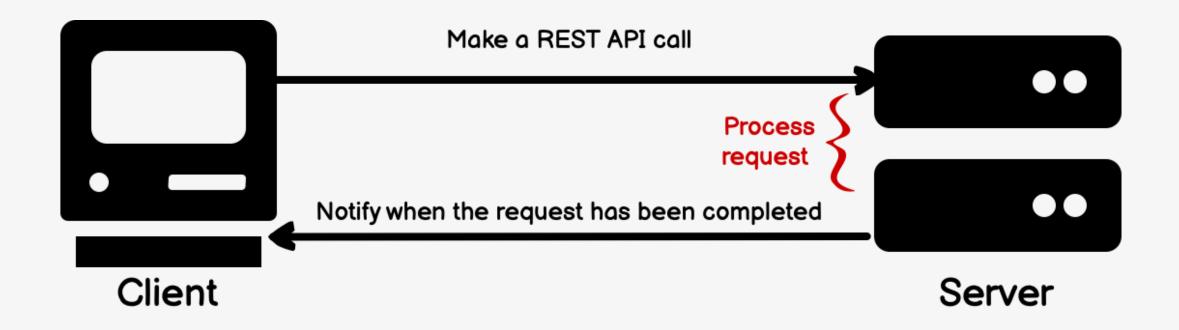






- Support streaming
- Faster than REST
- Call and receive a response directly from browser and mobile
- More difficult to develop than REST

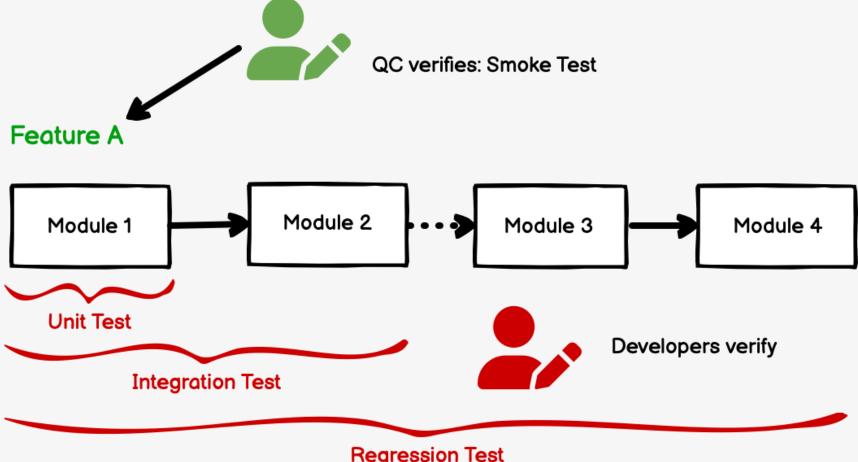
Webhook



salada ne Kalman doga haran kanan kalman kalman da kanan ka

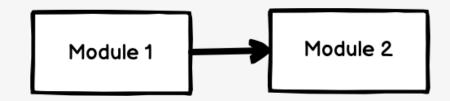
Software Testing

Functional Testing



Regression Test

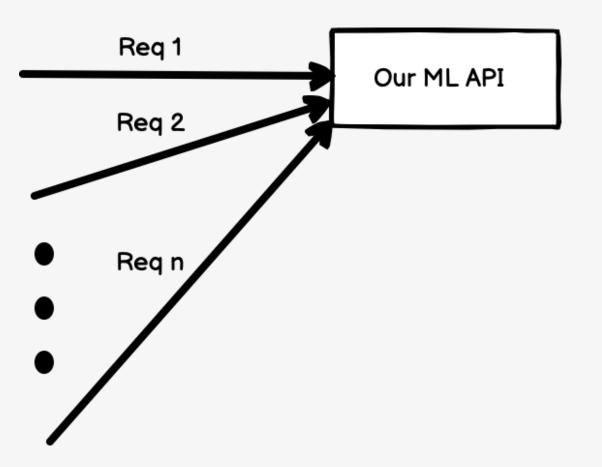
Feature B



Software Testing Non-Functional Testing

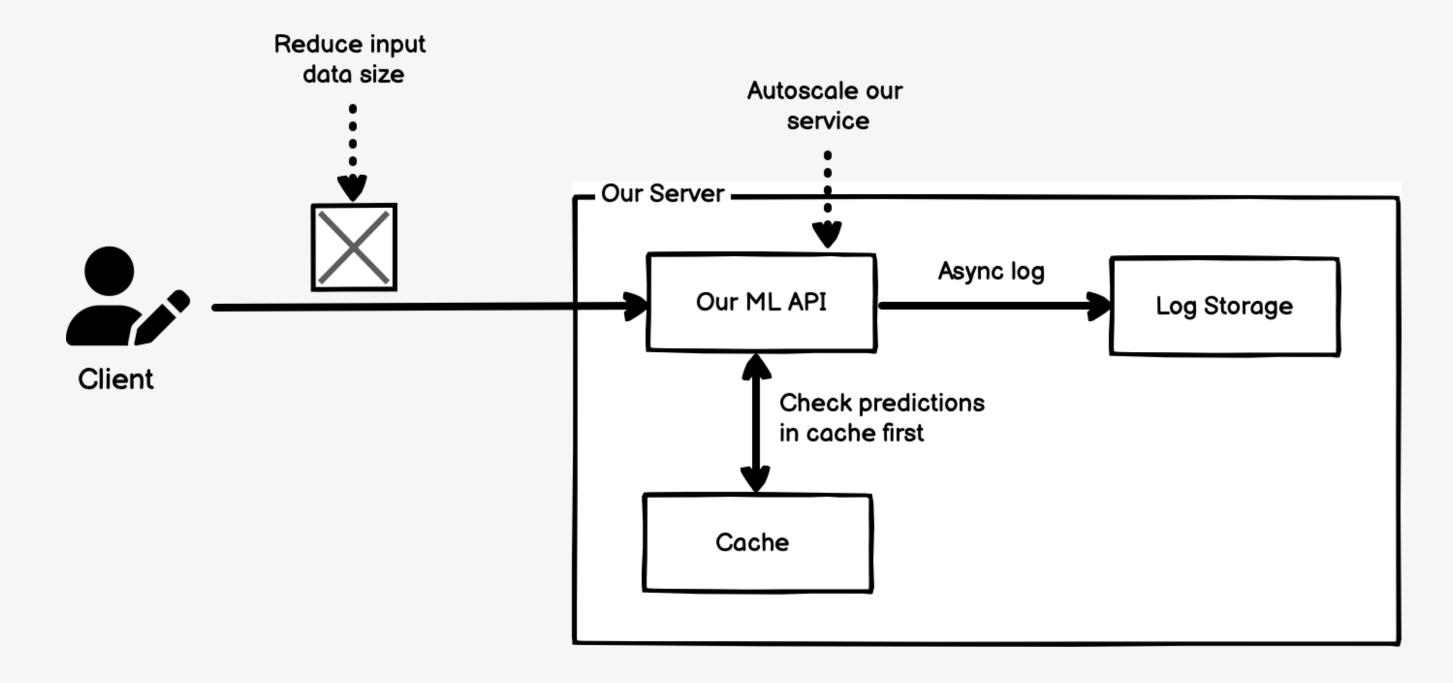
- Load Test: what is the upper limit?
- Stress Test: how the system reacts under unexpected load?





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Improve API performance



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