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API Protocols

1. REST (Representational State Transfer)

- An architectural style for designing networked applications.
- It emphasizes stateless communication, the use of standard HTTP methods (GET, POST, PUT, DELETE), and resources identified by URLs.

2. GraphQL

- A query language for APIs that allows clients to request exactly the data they need, nothing more and nothing less.
- This efficiency is a major advantage over REST, where endpoints often return fixed data structures.

3. SOAP (Simple Object Access Protocol)

- A protocol for exchanging structured information in the form of XML messages over a network.

4. gRPC (Google Remote Procedure Call)

- A high-performance, open-source framework for remote procedure calls (RPCs).
- It uses Protocol Buffers (a compact binary format) for data serialization.

5. Webhooks

- A mechanism for real-time communication between applications.
- A webhook is essentially an HTTP callback triggered by a specific event in one system, which sends a notification to another system.

6. WebSockets

- A protocol providing full-duplex communication channels over a single TCP connection.
- WebSockets enable real-time data exchange between a client and a server.

7. MQTT (Message Queuing Telemetry Transport)

- A lightweight publish-subscribe messaging protocol designed for low-bandwidth, high-latency, or unreliable networks.
- It is commonly used in IoT (Internet of Things) applications.

8. AMQP (Advanced Message Queuing Protocol)

- An open standard protocol for message-oriented middleware.
- AMQP provides features like reliable message delivery, routing, and queuing, making it suitable for enterprise integration scenarios.

9. EDA (Event-Driven Architecture)

- A software architecture pattern where applications react to events (e.g., user actions, sensor readings).
- EDA promotes loose coupling and scalability.

10. EDI (Electronic Data Interchange)

- A set of standards for exchanging business documents (e.g., purchase orders, invoices) electronically between organizations.
- EDI is widely used in supply chain management and logistics.

11. SSE (Server-Sent Events)

- A server-push technology that allows a server to send updates to a client over an HTTP connection in a unidirectional manner.

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#api #technology



API Protocols

REST

REST is an architectural style for designing networked applications, using stateless communication and standard HTTP methods



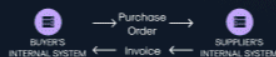
EDA

Event-Driven Architecture (EDA) is a trending software architecture pattern nowadays



EDI

EDI (Electronic Data Interchange) is a set of standards for exchanging structured business data between organizations electronically without human intervention.



SSE

SSE (Server-Sent Events) is a simple and efficient standard for server-push notifications over an HTTP connection



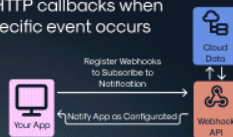
AMQP

AMQP is an open-standard protocol for message-oriented middleware, facilitating message routing, queuing, and delivery.



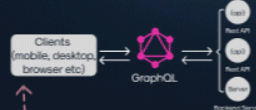
Webhooks

A webhook is a mechanism for one system to notify another system in real-time via HTTP callbacks when a specific event occurs



GraphQL

GraphQL is a query language for APIs that allows clients to request only the data they need



SOAP

SOAP is a protocol for exchanging structured information using XML



WebSockets

WebSockets provide a full-duplex communication channel over a single, long-lived connection, allowing for real-time data exchange



gRPC

gRPC is a high-performance, open-source framework for RPCs using Protocol Buffers



MQTT

MQTT is a lightweight publish-subscribe messaging protocol designed for low-bandwidth, high-latency, or unreliable networks

