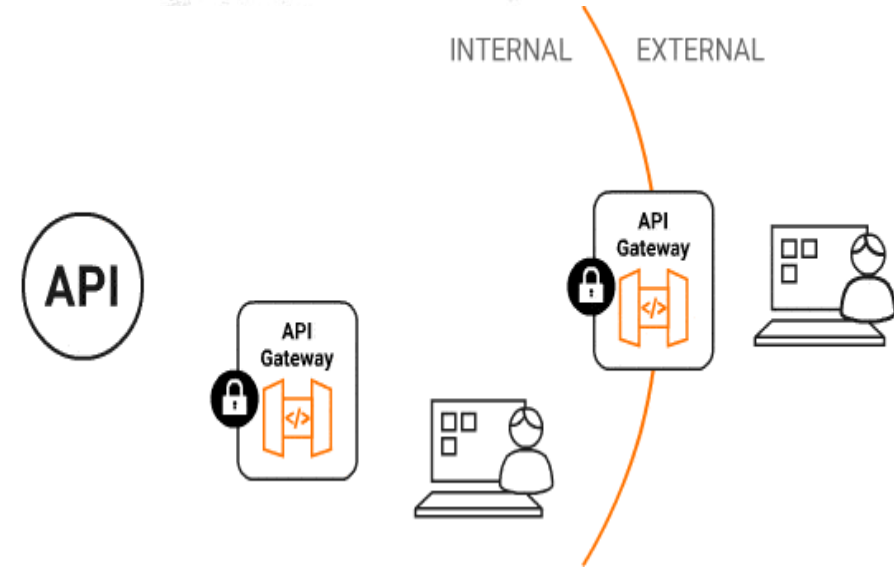


Introduction to APIs with Example

With Example: OpenRouter API Integration



What is an API?

- API stands for Application Programming Interface.
- APIs allow different software systems to communicate.
- APIs are used to request and exchange data over the internet.
- Common examples: Weather API, Payment API, AI Chatbot API.

Types of APIs

- Web APIs (HTTP-based)
- REST APIs (most common)
- SOAP APIs
- GraphQL APIs
- Private, Partner, and Public APIs

How APIs Work

1. A client sends an HTTP request (e.g., GET, POST).
2. The request reaches a server that processes it.
3. The server sends back a response (usually JSON).
4. The client uses the response in the app or UI.

Example: OpenRouter API

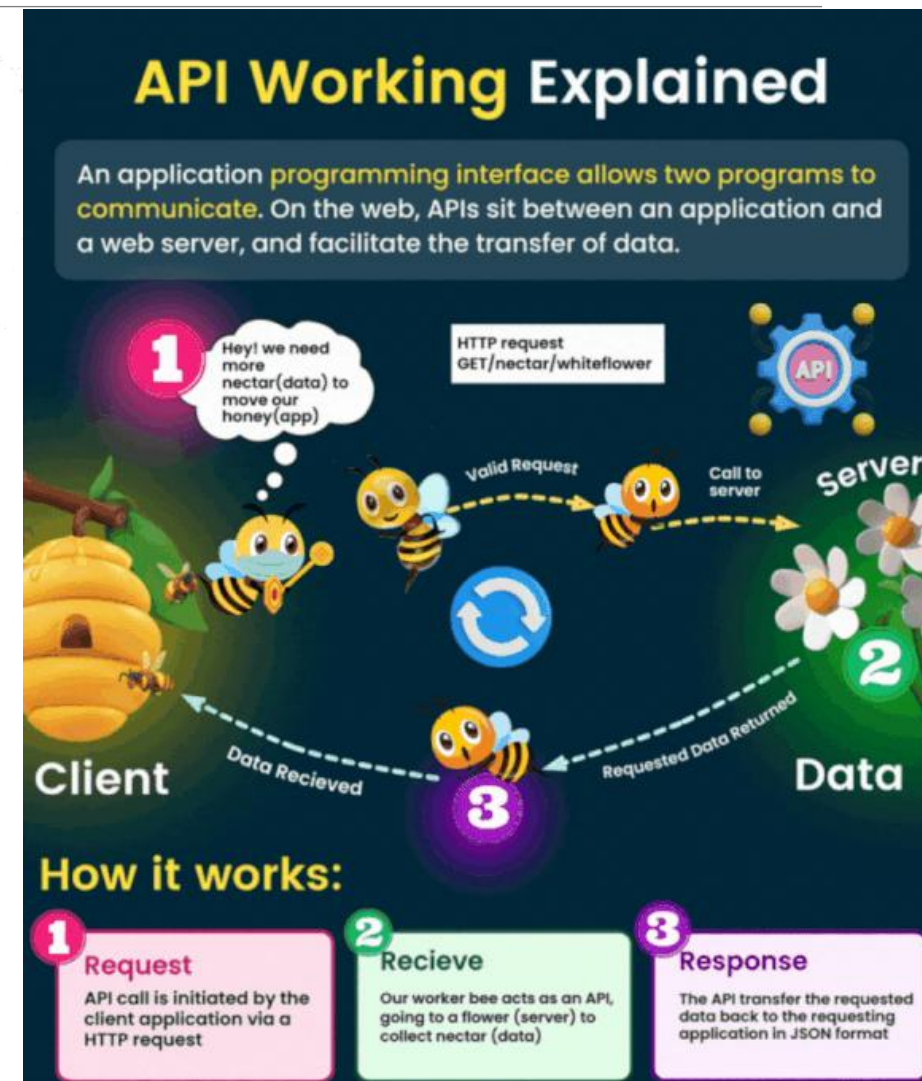
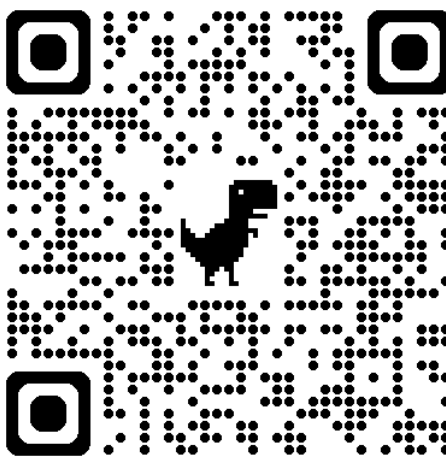
- OpenRouter is an API that lets you chat with LLMs like GPT.
- You send a prompt using a POST request.
- The server replies with an AI-generated message.
- Requires API Key for authentication.

Python Example (OpenRouter API)

- PRACTICAL DEMO Visit Link:

<https://github.com/lovnishverma/openrouter.ai>

OR Scan QR CODE



Best Practices with APIs

- Keep your API keys secret (use .env files).
- Always handle errors (network issues, invalid keys).
- Follow rate limits.
- Read the API documentation.

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