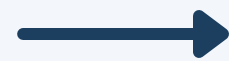




# What is an API?





# Simple Analogy

## The Restaurant

Imagine you're at a restaurant, and you're the customer **(Client)**. You have a menu in front of you and you decide what you want to order.





Next, you call over the waiter (**API**) and place your order (**request**), and the waiter listens to your request.





The waiter heads to the kitchen (**Database**), where the chefs (**server and database**) prepare your meal based on the order (**request**). The kitchen is equipped with ingredients (**data**) and follows recipes (**queries and operations**) to create the dish.

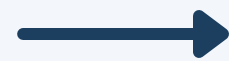






Once the meal is ready, the waiter picks it up and brings it back to your table (**API Response**). The waiter ensures that the right dish reaches the right customer.





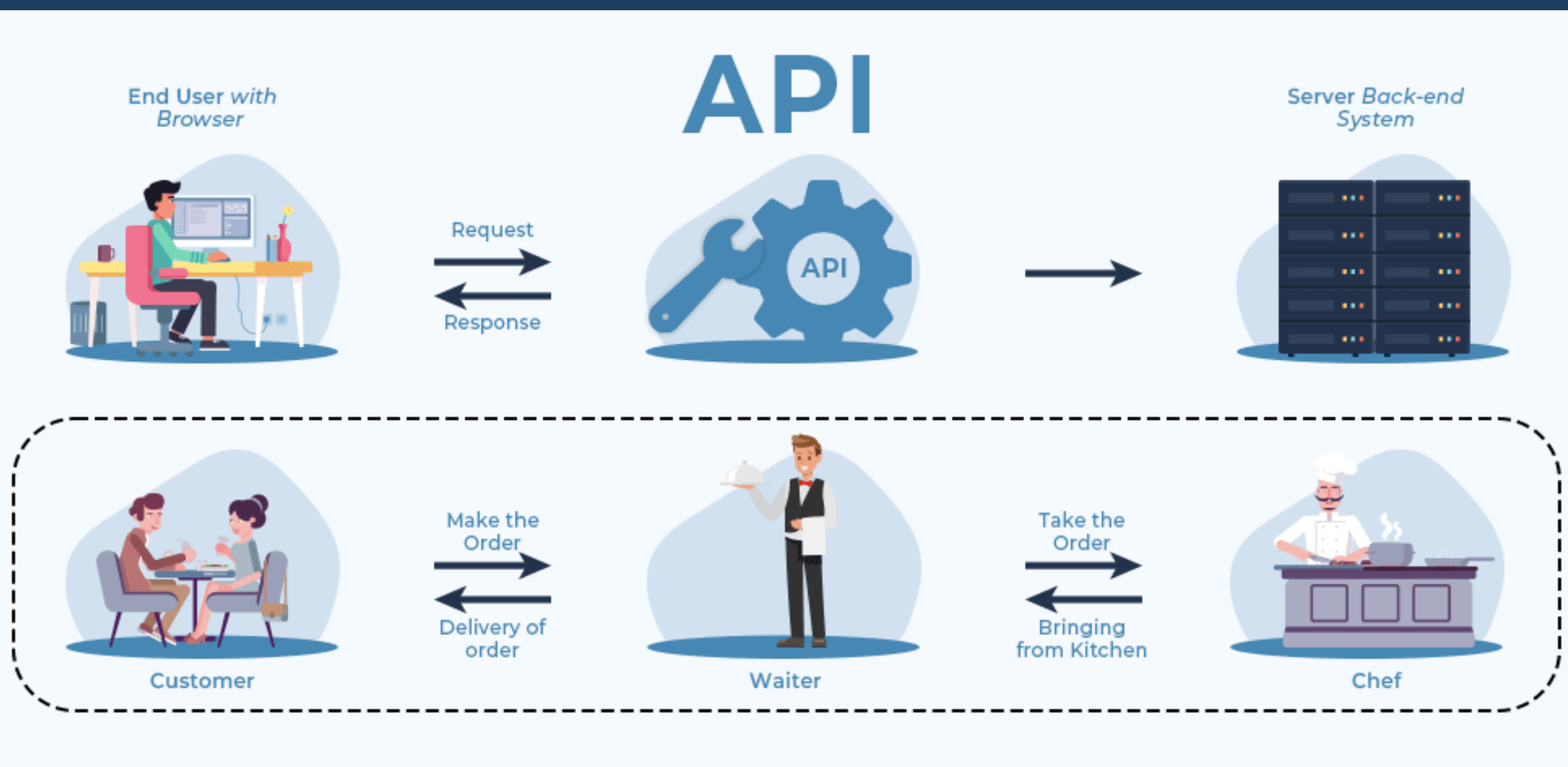
# In our analogy

- In the world of web development, you are like the **client** application (e.g., a web browser or mobile app). You know what data or service you need, and you're ready to make a request.
- The waiter represents the **API (Application Programming Interface)**. Just like the waiter understands both you (the customer) and the kitchen, the API understands the client application's request and the server's processes.
- The kitchen represents the **server and database**, which process the client's request by performing the necessary operations on the data.



- Once the server has processed the request, the API sends back a response (**API response**) to the client application, ensuring that the requested data or service is delivered accurately.

In Summary:



An API, or Application Programming Interface, is a set of rules and protocols that allows different software applications to communicate with each other. It defines the methods and data formats that applications can use to request and exchange information.

Think of an API as a bridge that connects different systems, enabling them to work together seamlessly.

**Client**

**Database**

**API**





Stay tuned as we  
continue our  
journey into the  
world of APIs this  
week!!!

# Hi There! 🖐️

## Thank you for reading through

Did you enjoy this knowledge?

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