

Explore *API* and ES6 methods

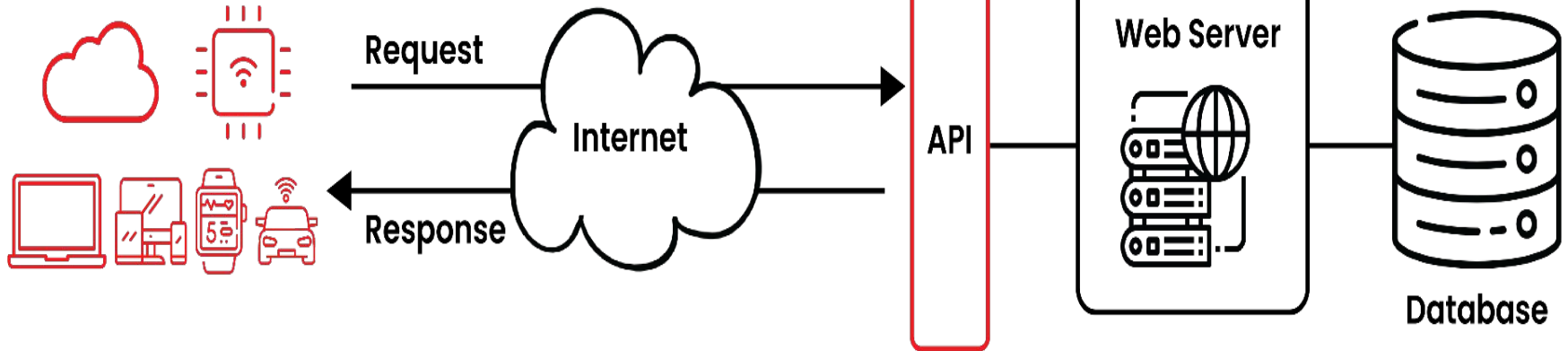
Application Programming Interface

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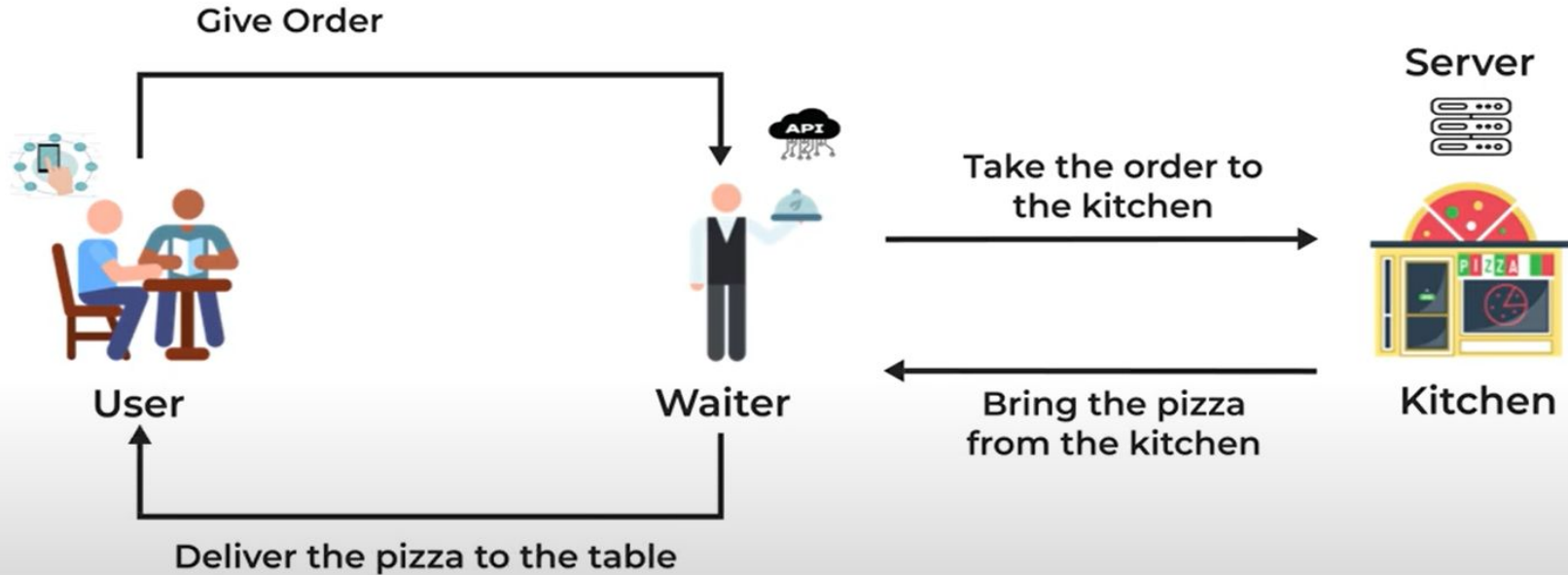
API

Application Programming Interface

Apps in Browser, Mobile
Devices & IoT



Application Programming Interface



Application Programming Interface

- API is the acronym for Application Programming Interface, which is a software intermediary that allows two applications to talk to each other.

Types of APIs:

- ★ APIs by availability: Private, partner, public
- ★ APIs by use cases: Database APIs, OS APIs, Remote APIs, Web APIs.

JavaScript Object Notation - Introduction

- JSON

JSON

- JSON stands for JavaScript Object Notation
- JSON is a text format for storing and transporting data
- JSON is plain text written in JavaScript object notation

❑ Why do we use JSON:

- You can receive pure text from a server and use it as a JavaScript object.
- You can send a JavaScript object to a server in pure text format.
- You can work with data as JavaScript objects, with no complicated parsing and translations.

JSON

❑ JSON Syntax:

- The JSON syntax is a subset of the JavaScript object syntax.
- A name/value pair consists of a field name (in double quotes), followed by a colon, followed by a value

For example:

```
{"key":"value"}
```

- JSON names require double quotes.(*)

JSON

❑ JSON Example:

```
{
  "cover_i": 258027,
  "has_fulltext": true,
  "edition_count": 120,
  "title": "The Lord of the Rings",
  "author_name": [
    "J. R. R. Tolkien"
  ],
  "first_publish_year": 1954,
  "key": "OL27448W",
  "ia": [
    "returnofking00tolk_1",
    "lordofrings00tolk_1",
    "lordofrings00tolk_0",
  ],
  "author_key": [
    "OL26320A"
  ],
  "public_scan_b": true
}
```

JSON

❑ JSON Methods:

- JavaScript also has a built in function for converting an object into a JSON string:

JSON.stringify()

- JavaScript has a built in function for converting JSON strings into JavaScript objects:

JSON.parse()