Explore API and ES6 methods
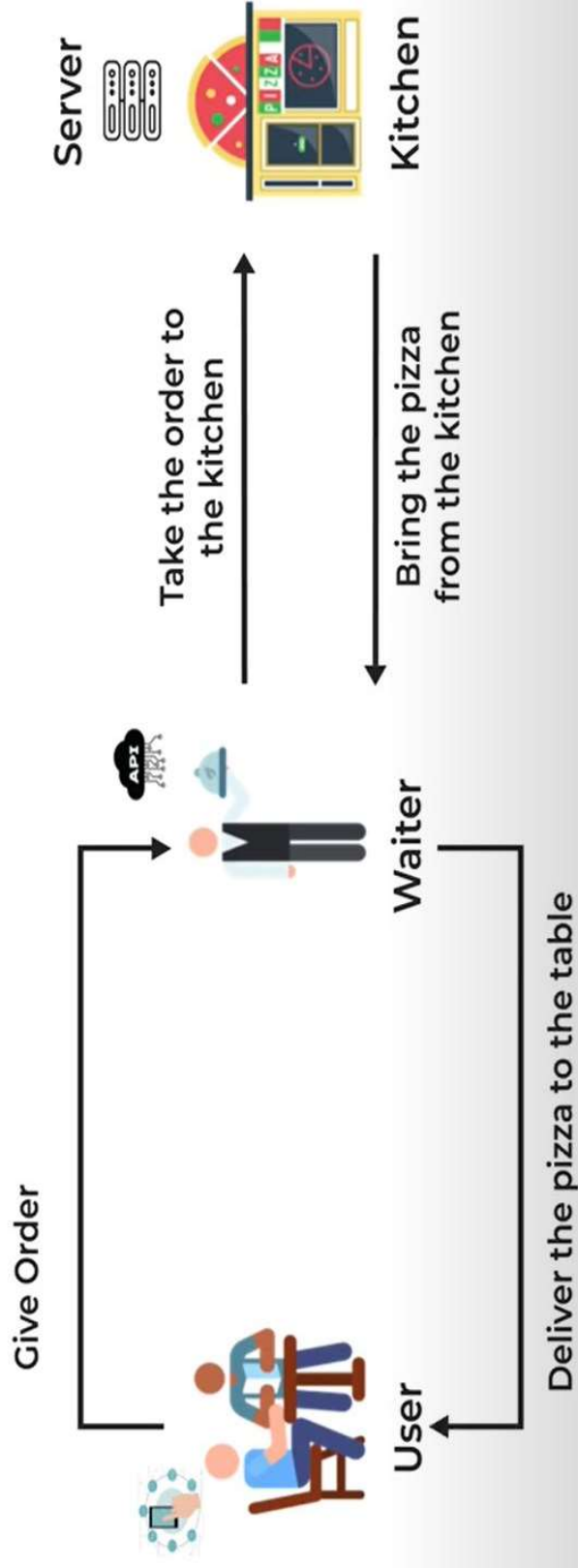
Application Programming Interface
- API

Application Programming Interface
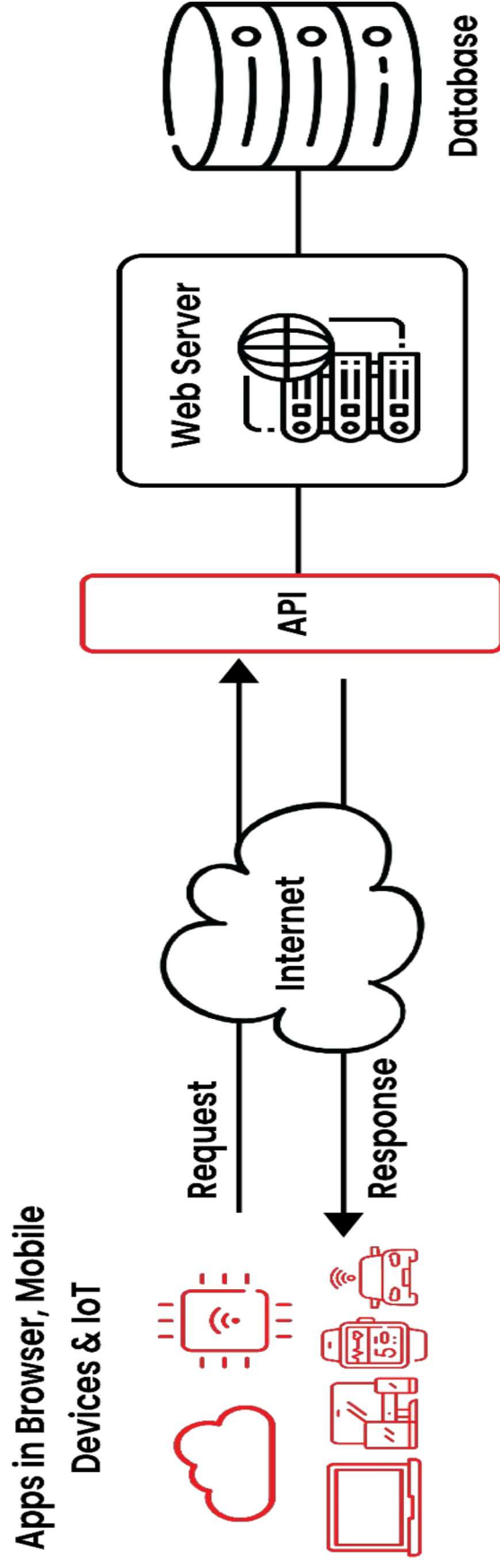
Apps in Browser, Mobile Devices & IoT

Request

Response

Internet

API

Web Server

Database

Application Programming Interface

Give Order

Take the order to
the kitchen

Bring the pizza
from the kitchen

Deliver the pizza to the table

Server

Kitchen

Waiter

User

Application Programming Interface

- APIs 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:

```json
{
    "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()