**Micro services:**

Micro services are an architectural style that develops a **single application** as a set of small services.

* Each service runs its own process
* It is loosely coupled
* Independently deployable
* Reusability of each service code
* There is no connection between different micro services
* You can create them using different programming languages and even different platforms
* Highly maintainable and testable

**Examples of micro services frameworks for java**

Spring Boot, Jersey, Swagger

<https://spring.io/>

<https://stackify.com/what-are-microservices/>

**API (Application Programming Interface)**

An application programming interface (API) is a **particular set of rules ('code') and specifications** that software programs can follow to communicate with each other.

* It's used when 2 or more separate systems need to work together to achieve something they can't do alone.

**Example:**

An example, you are buying an item in online through your credit card. You will provide credit card details and press continue button. It will tell you whether your information is correct or not. To provide these results, there are lot of things in the background.

The application will send your credit card details to a remote application which will validate your information and send the result back your application. API is used in this scenario.