Introduction

In this pill you will have to put into practice through a program called "**Postman**" the concepts that have been given previously about the API's.

What are the main objectives in this project?

- Learn how to use **Postman** to make requests
- Learn to work with **third-party API's**
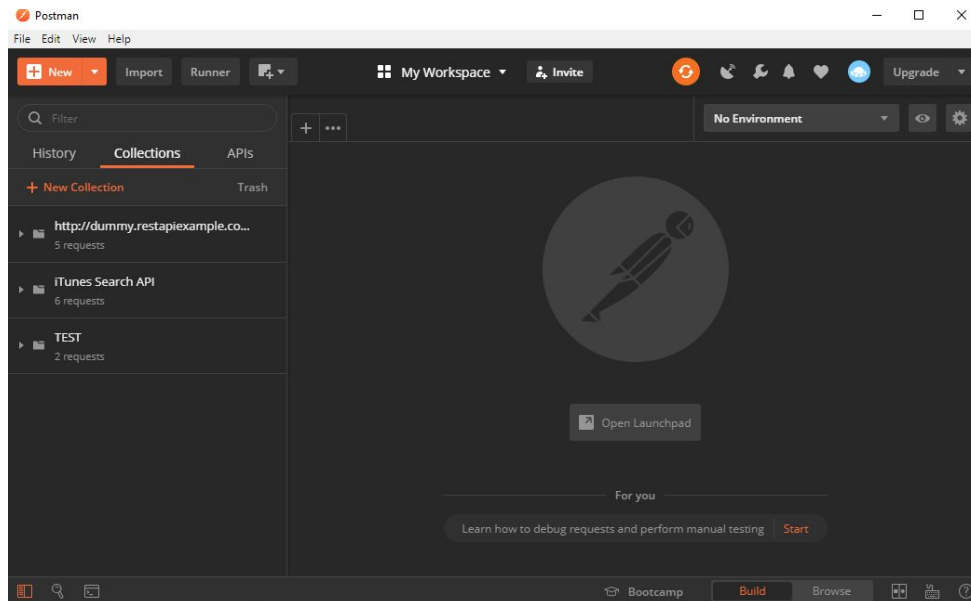- Learn how to implement the **fundamentals of HTTP methods**

1. General analysis

The objective of this pill is to introduce you to the world of APIs and to understand how requests and responses work.

Before you start making requests, you must **download Postman**, a tool that you will use to practice using api's.

Postman is a tool that allows us to make **HTTP requests** without having to develop a **client** that makes these requests, thus making it much easier to test APIs. It has a version as a browser plugin and a version for the desktop, although we will use the

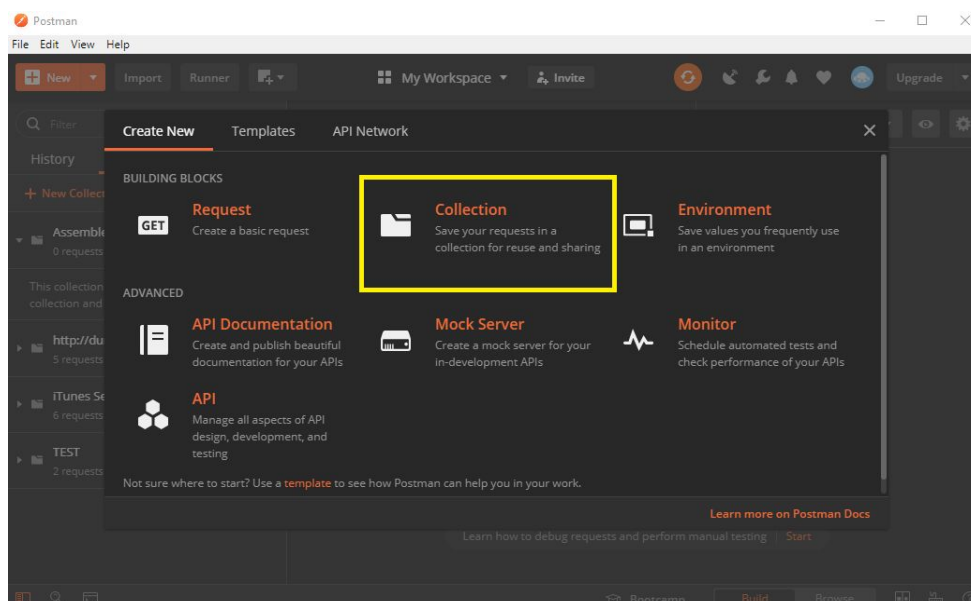desktop version as it provides us with more options that you will have to use in this pill.
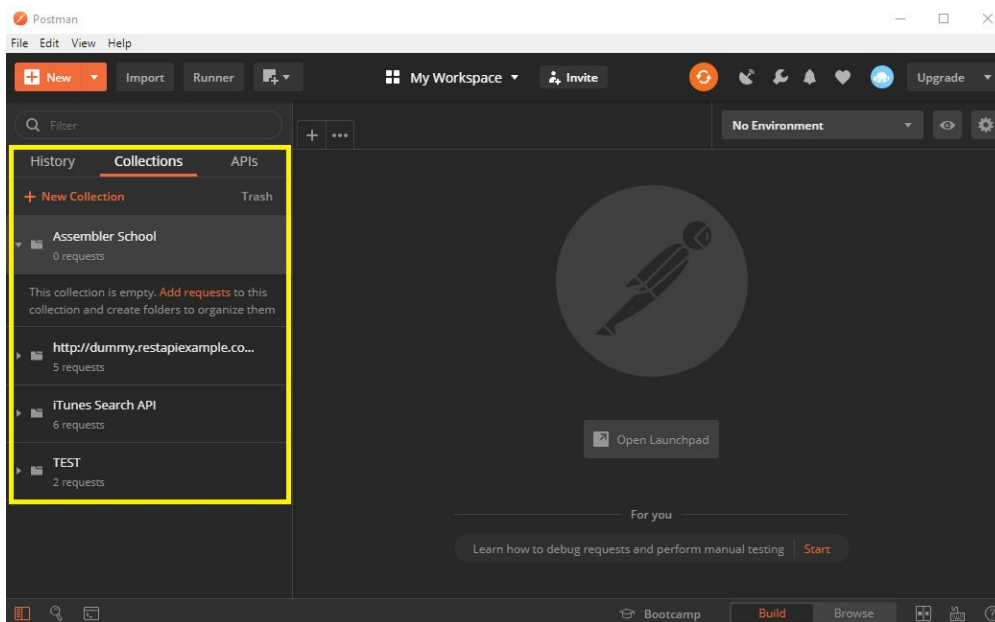

There are two main concepts you should know before using Postman:

1.1. Concepts
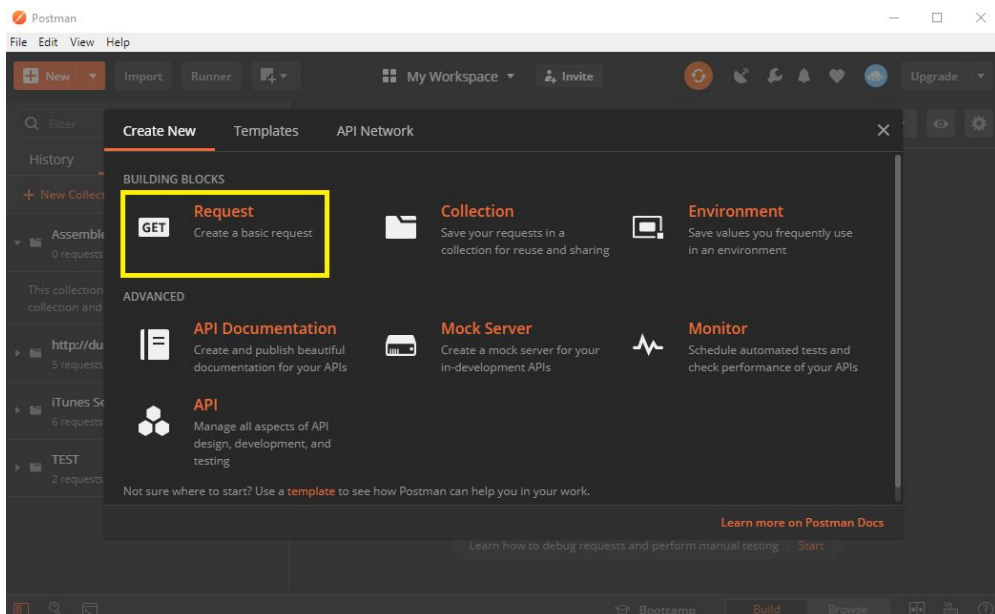
1.1.1. Postman Collections

A collection lets you group individual requests together. This option is the one you should use to group all the requests made in this pill.
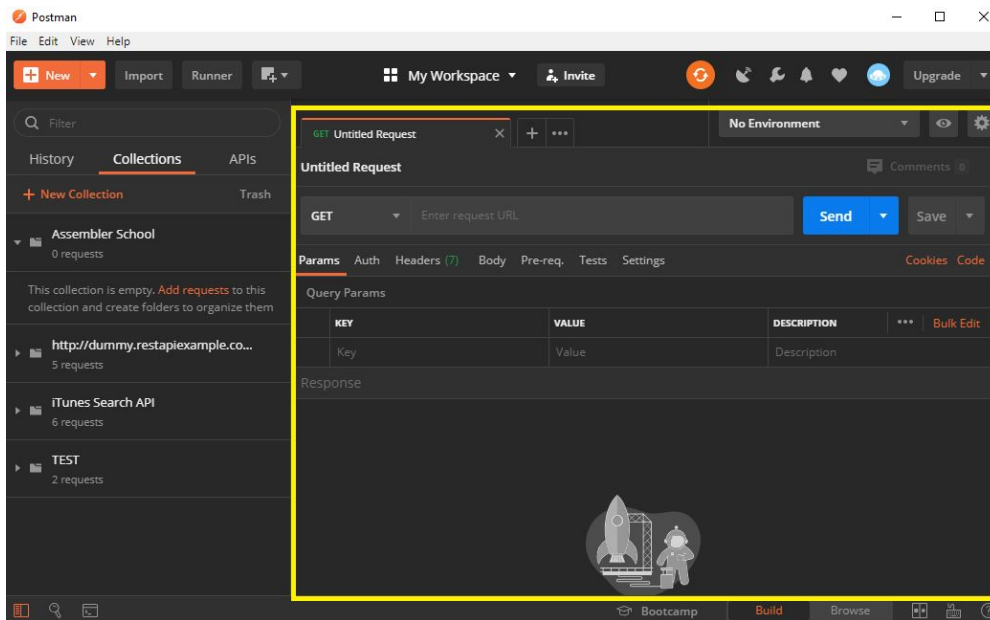
1.1.2. Requests

When you make a **HTTP request**, you can save all the properties of the request you have made. In this way, all the requests you make can be saved with a custom name and added to your previously created collection.
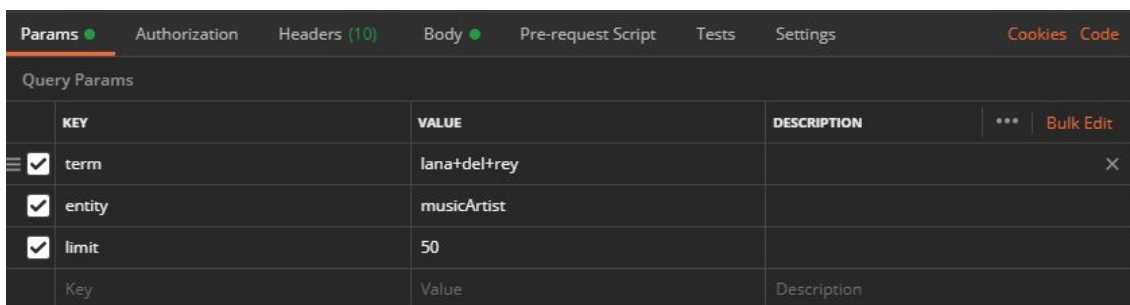
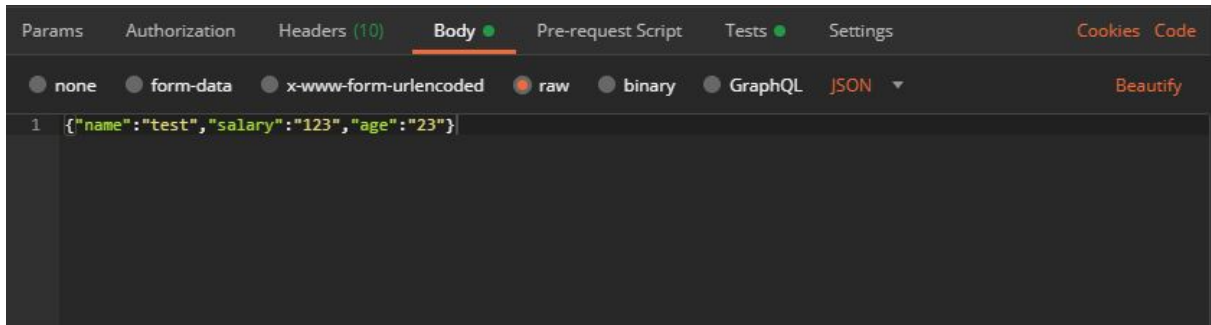In this section we can see the following options:

HTTP Method + URL

As you can see you can specify what HTTP method you want for the request and the URL with the parameters to search.
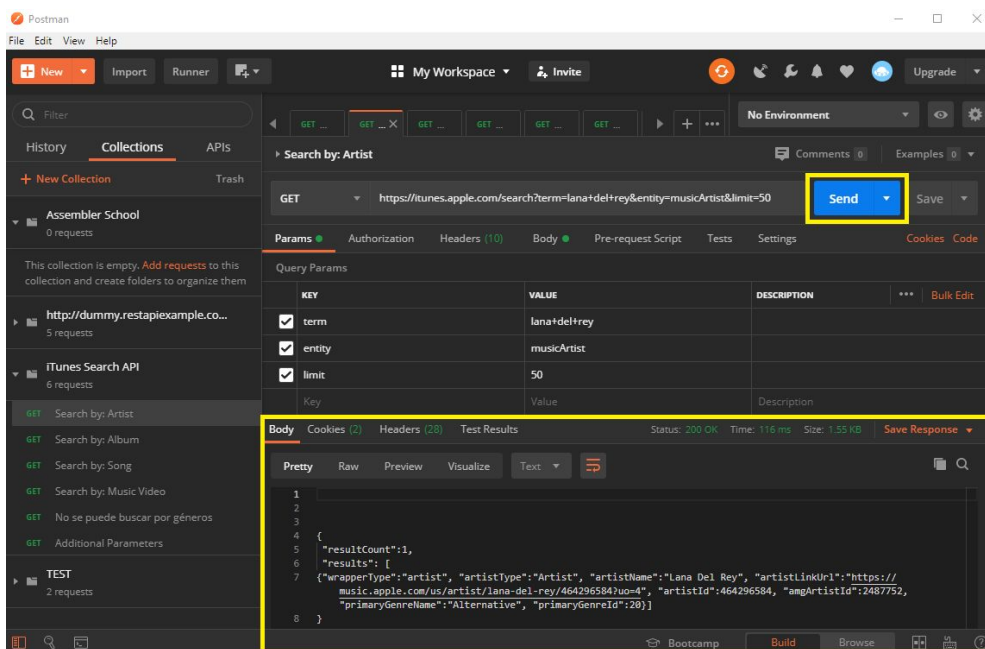
Parameters

You don't need to specify the parameters directly in the URL, you can add them in this section.

Body section (request)

In this section you can add information in the body, if you choose "raw" you can pass information such as **JSON**, which is the way you should pass the information in this pill.

Once you send the request to the API, the results will be displayed in the body section (response).

1.2. It's time to practice

To carry out the practical part, you will make requests to the third-party APIs called Dummy Rest API Example and JSONPlaceholder. These APIs have been designed to allow you to practice making requests like the ones you will do in this pill.

The base URL to make the requests is:

- Dummy Rest API: http://dummy.restapiexample.com/api/v1/
- JSONPlaceholder: https://jsonplaceholder.typicode.com/

You will need to create different requests for each of the following HTTP methods:
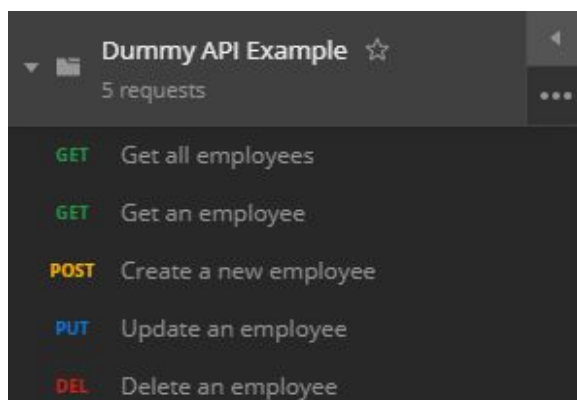
1.2.1. Dummy Rest API

- **GET**
  - /employees
  - /employee/{id}
- **POST**
  - /create
    - You must add the data to **create** in the body as JSON
      - {"name":"test","salary":"123","age":"19"}
- **PUT**
  - /update/{id}
    - You must add the data to **update** in the body as JSON
      - {"name":"test","salary":"123","age":"19"}
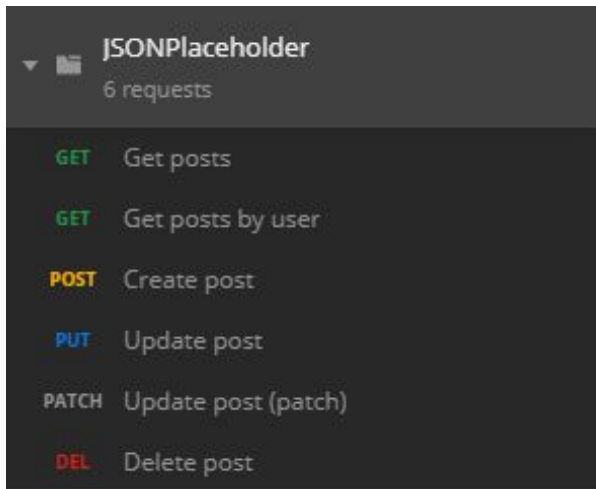- **DELETE**
  - /delete/{id}

1.2.2. JSONPlaceholder

- **GET**
  - ○ /posts
  - ○ /posts?userId=:id
    - ■ The id you have to pass to it is by URL parameter
- **POST**
  - ○ /posts
    - ■ You must add the data to **create** in the body as JSON
      - ● {"title": "foo","body": "bar","userId": 1}
- **PUT**
  - ○ /posts/{id}
    - ■ You must add the data to **update** in the body as JSON
      - ● {"id": 1, "title": "foo","body": "bar","userId": 1}
- **PATCH**
  - ○ /posts/{id}
    - ■ You must add the data to **update** in the body as JSON
      - ● {"title": "foo","body": "bar"}
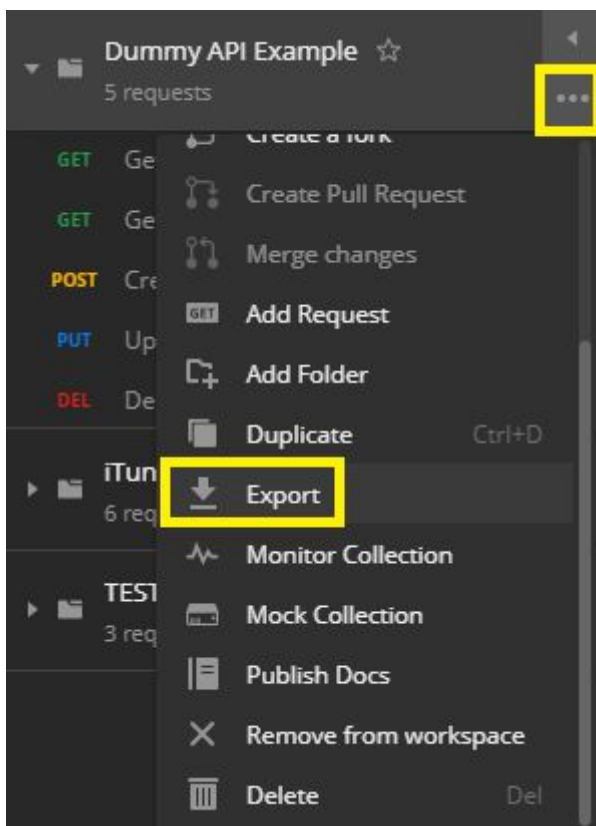- **DELETE**
  - ○ /posts/{id}

1.3. Export your collections

Once you have your collections with the previous requests, it should see a screen similar to this one:
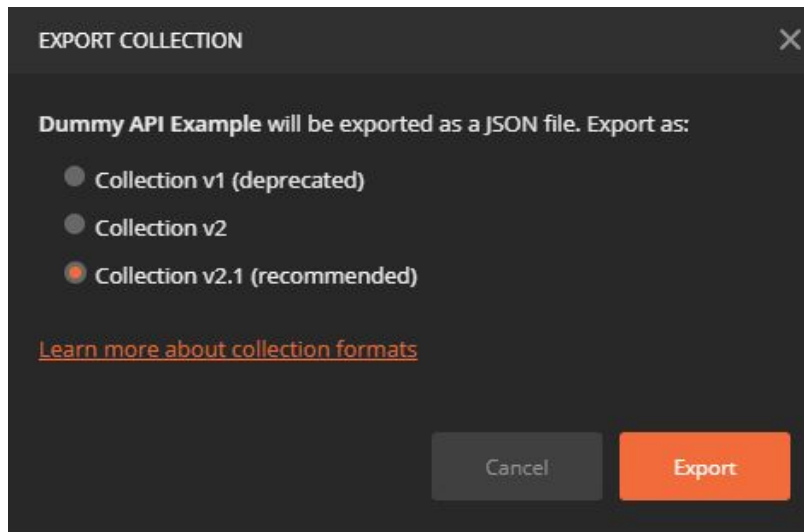
In this pill you must deliver your Postman collection, for this you must export it as follows:

A popup will appear asking you the version in which you want to export the collection, you must select the recommended option:

3. Deliverables

To evaluate the project you will need the following deliverables:

- A repository with the exported collections

4. Resources

- Download Postman: https://www.postman.com/downloads/
- Dummy Rest API Example: http://dummy.restapiexample.com/
- JSONPlaceholder: https://jsonplaceholder.typicode.com/
- JSONPlaceholder examples:

  https://jsonplaceholder.typicode.com/guide.html