

pOSTMAN

PILLS



23 de enero de 2020

ASSEMBLER

Passeig de Joan de Borbó, 101

POSTMAN

Postman is a tool that is used, above all, for API REST testing, although it also supports other features that come out of what is included in the testing of this type of systems.

Thanks to this tool, in addition to testing, consuming and debugging REST APIs, we can monitor them, write automated tests for them, document them, mock them, simulate them, etc.

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17 JANUARY 2020

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POSTMAN

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POSTMAN

# General Analysis.

## Install Postman

*The first step is to install Postman to start using it. To do this, follow the steps indicated in the official guide:*

*https://www.getpostman.com/downloads/*

## Analyze the interface

*Next, review the menus provided by the interface and add in the documentation a section explaining what it is for and how each of the following elements is used:*

* *Request.*
* *Collection.*
* *Environment.*
* *API Documentation.*
* *Mock server.*
* *Monitor.*
* *API.*

*It is possible that to have access to any of the above elements you must create a Postman account*

## Put it into practice

*Finally, you must implement the following Postman functionalities using an example online API to make the requests:*

* *Create a new POSTMAN Collection (research previously about it).*
* *Create a request for each of the following methods as shown in the image above:*
* *GET*
* *POST*
* *PUT*
* *DELETE*

*The main idea is that you know how to use each type of request and thus be able to test your own or third-party applications. For example, for the request that uses the GET method, you would call “/ employee” for the POST “/ create”,…*

* *Create a test for each previous request where you will verify that the response meets the following conditions:*
* *The state code is as expected*
* *The name of the state code is the corresponding one (OK, Created, ...)*
* *The answer has body*
* *The answer is in JSON*
* *The header has “Content-Type”*
* *The response time is less than 200ms*
* *Create a monitor that runs the previously created collection every 5 min*
* *Create an API document from the previous collection with the Postman application*
* *Export the created collection and import it back into Postman (you must incorporate the generated file in the project repository.*

*You must document all the actions performed previously and take screenshots of all the processes.*

## Search Information.

### Requests.

You can send requests in Postman to connect to APIs you are working with. Your requests can retrieve, add, delete, and update data. Whether you are building or testing your own API, or integrating with a third-party API, you can try out your requests in Postman. Your requests can send parameters, authorization details, and anybody data you require.

For example, if you're building a client application (e.g. a mobile or web app) for a store, you might send one request to retrieve the list of available products, another request to create a new order (including the selected product details), and a different request to log a customer in to their account.

When you send a request, Postman will display the response received from the API server in a way that lets you examine, visualize, and if necessary troubleshoot it.

### Collections.

Postman Collections are a group of saved requests you can organize into folders. Every request you send in Postman appears under the History tab of the sidebar. On a small scale, reusing requests through the history section is convenient. However, as your Postman usage scales, it can be time consuming to find a particular request in your history. Instead of combing through your history section, you can save all your requests as a group for easier access.

### Environments.

Environments enables you to create robust requests that you can reuse. You also can use environments in the Collection Runner.

### API Documentation.

You can automatically generate documentation for your Postman APIs. You can share your documentation privately or publish it on the web. Postman generates and hosts documentation based on collections, synced in real time and accessible via the browser. You can use documentation to collaborate with team members and partners, or to support developer adoption for your public APIs.

### Mock Server.

Mock Servers in Postman let you simulate APIs. You can create mock servers from the Postman app, from the web dashboard, and using the Postman API. You will need a Postman account to set up a mock server.

Mocks in Postman are tied to a collection. Postman matches requests and generates responses for mocks from the Examples in the requests of a collection. You can create a mock server even if you don't have an existing collection.

### Monitors.

Postman Monitoring helps you to stay up to date on the health and performance of your APIs. Within a matter of seconds, you can set up Postman's monitoring service and integrate it into your API development pipeline.

### API.

The Postman API allows you to programmatically access data stored in Postman account with ease.

The easiest way to get started with the API is to click the Run in Postman button present at the top of the documentation page and use the Postman App to send requests.

# Pill requirements.

* *“Create a clear and orderly directory structure.*
* *Both the code and the comments must be written in English.*
* *Use the camelCase code style to define variables and functions.*
* *In the case of using HTML, never use online styles.*
* *In the case of using different programming languages ​​always define the implementation in separate terms.*
* *Remember that it is important to divide the tasks into several sub-tasks so that in this way you can associate each particular step of the construction with a specific commit.*
* *You should try as much as possible that the commits and the planned tasks are the same.*
* *Delete files that are not used or are not necessary to evaluate the project.”*

# Pill Planning.

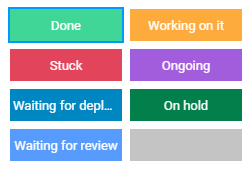
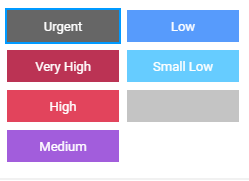
## Pill organization.

*“Next you will have to create a document where you can explain in detail how the current pill is organized. It is important that it be updated throughout the life of the pill. The document must include at least:*

* *Requirements documentation.*
* *List of tasks to be performed.*
  + *Priority of each task*
  + *Title and description of each of them*
  + *Difficulty level*
  + *Estimated time for each task.*
* *Record of incidents that were detected during the execution of the pill.*
* *Documentation about the GIT WORKFLOW you are going to use*
* *Documentation about the tools used in the project*
* *Record of lessons learned.”*

## Priority of each task.

A total of 5 SPRINTS of the project were defined with each of its tasks, assigning the priority of execution and the state of the task.

8 scenarios with their respective colors were proposed for the status of each task:

* *Done* (Light Green), for task have been finished
* *Working on it* (Orange), tasks are underway and almost finished.
* *Stuck* (Red), tasks are stagnant for some reason and could not be finished.
* *Waiting for review* (Blue), tasks are waiting for a review and approval.
* *Waiting for deployment* (Dark Blue), tasks are pending for status update and repository update.
* *Ongoing* (Purple), tasks are on development.
* *On hold* (Dark Green), tasks are waiting for something resource or search information or depend on another tasks to start.
* (Gray), tasks without assign.

6 scenarios with their respective colors were proposed for assign the tasks priority. The priority upper level is *High* (Red) and *Small Low* (Light Blue) is the priority lower level. For tasks with null scenario (it doesn’t have priority) it will be assigned with *Nothing* (Gris). The *Urgent (Dark Gray)* scenario was established for tasks with extreme and excessive importance.

## List Task.



## Total approximate project estimate.

Using a tool for project management, called monday.com. Tasks are reflected within sprints or stages. Adding the hours each task for each sprint we have that the project will be executed in 21.1 hours in 4 days, it will be 5.5 hours average per day for the project deadline.



The first sprint called Discovery were divided in two main sub-sprints: General analysis and Project Planning.

## GIT Workflow documentation.

The GIT repository is located at: https://github.com/diegosilva91/Postman and was cloned into the computer to create the corresponding static portal files. The master BRANCH was used to carry out all the loads with their respective commit.

## Software requirements.

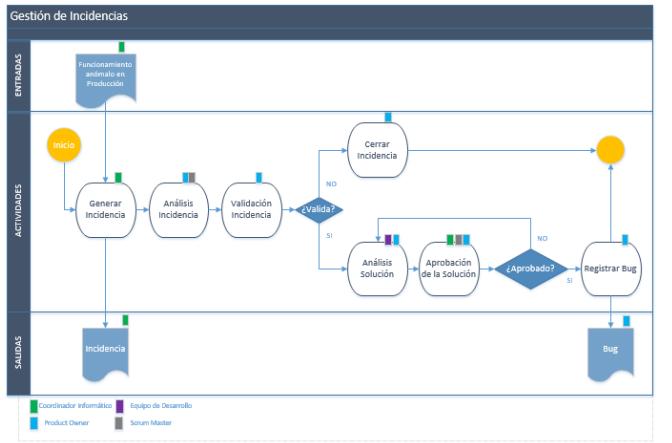
It must be installed for develop the pill:

* Postman.

## Tools used in the project.

* Project management was carried out with Monday.com, to plan tasks, sprints, calendar and schedule.
* Visual Studio Code.

# Incident management.

The procedure to manage the incidents presented in the pill is proposed.

The incidents will be recorded in the updates of each task of the support tool for project management used in its development. This section will record the incident detected, if validated, the solution found for this solution and if it was correctly solved. The incidents will be reviewed again in the partial and final meetings of each sprint, to review the pending incidents and generate actions so that they are not recurring.

# Development.

# Monitoring Control.

The requirements were join into a list for last checking and avoid delivery issues. The table was created for compare each requirement with the development.

