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**Software Testing Day 12 – API testing**

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# Agenda

- What is API Testing
- Brief on SOAP and REST API
- API Testing (SOAP + REST) with POSTMAN



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## Basics of API

One of the basic concepts to start with is by understanding the client server architecture.

### What is Client Server Architecture?

Client server architecture in a simple sense can be stated as a consumer-producer model where the client acts as the consumer i.e. the service requestor and the server is the producer, i.e. the service provider.

### What is a Client?

A client in computing is a system or a program that connects with a remote system or software to fetch information. The client makes a request to the server and is responded with information

### What is a Server?

A server is a system or a computer program that acts as the data provider. It may provide data through LAN(*Local Area Network*) or WAN(*Wide Area Network*) using the internet. The functionalities provided by the server are called services. These services are provided as a response to the request made by the clients.

Notes

# Basics of API



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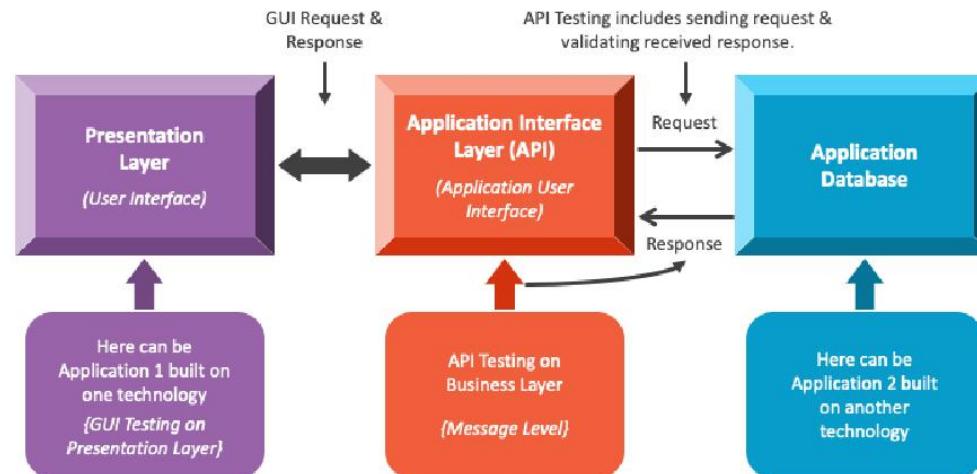
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# Basics of API

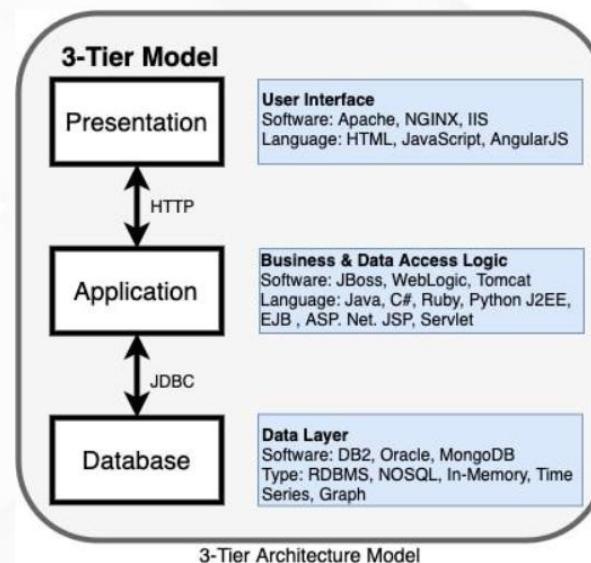
## API TESTING

### Overview of API Testing



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# Basics Strength of API



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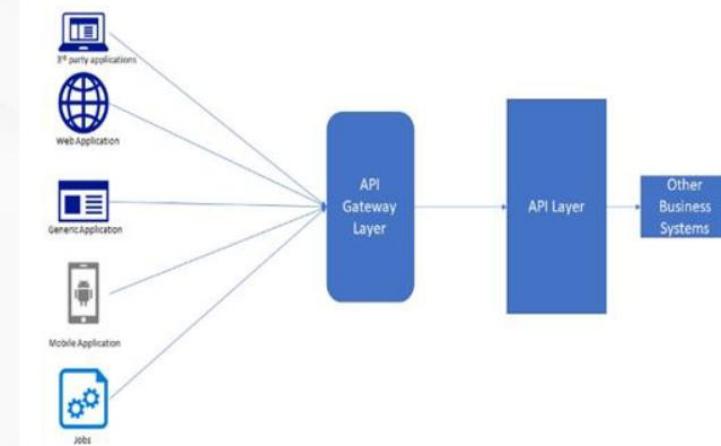
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# What is API?

- APIs stands for Application Programming Interface
- APIs allows two applications to interact with each other without any user intervention.
- APIs is a software code which consists of software functions and procedures (business logic)
- It can be created on any Languages like Python,Java,javascript and Node.



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# Basics Strength of API

## Why do we need API ?

- The rate of code development is faster and the same API can service more requests without any major code or infrastructural changes.
- It helps you to embed content from any site or application more efficiently.
- APIs have much more strong discipline for security and governance.
- APIs are more standardized, they can be monitored and managed for both performance and scale.
- Simple, flexible, quickly adopted.



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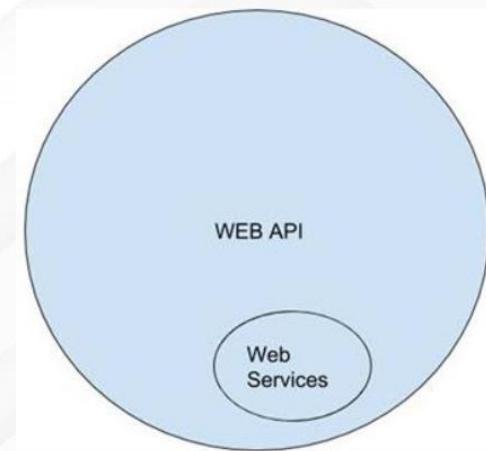
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# Webservices vs Web API

Differences between Webservices and Web API is providing a secure connection, their speed of communicating to the server and responding back to the client

## Web Service

- Web Services generally use XML (Extensible Markup Language), which means they are more secure.
- Web Services is more secure as both Web Services and APIs provide SSL (Secure Socket Layer) during data transmission, but it also provides WSS (Web Services Security).
- Web Service is a subset of Web API.
  - **For Example,** Web Services are based only on three styles of use i.e. **SOAP, REST and XML-RPC.**
- Web Services always need a network to operate.
- Web Services support “One Code different applications”. This means a more generic code is written across different applications.



Notes



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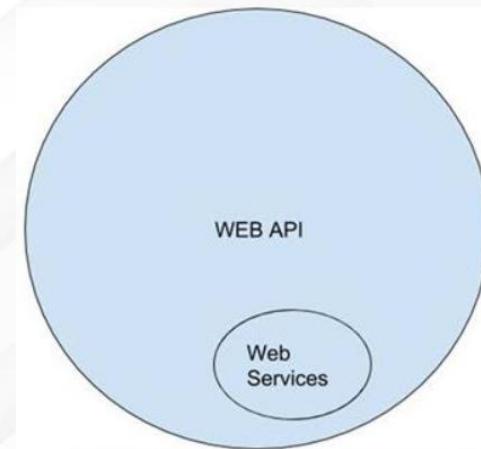
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# Webservices vs Web API

## Web API

- A Web API generally uses JSON (JavaScript Object Notation), which means Web API is faster.
- Web API is faster as JSON is light-weighted, unlike XML.
- Web APIs are the superset of Web Services.
  - **For Example,** All three styles of Web Services are present in the Web API as well, but apart from that, it uses other styles like JSON – RPC.
- Web API does not necessarily require a network to operate.
- Web API may or may not support interoperability depending upon the nature of the system or application.



Notes



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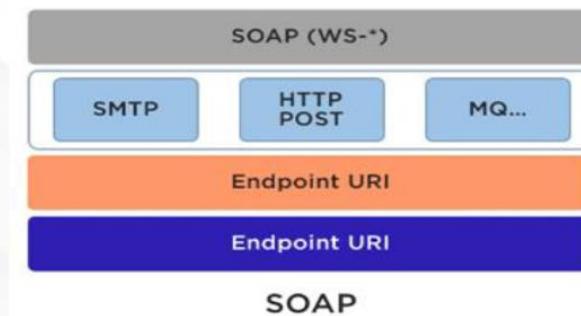
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# What is SOAP API ?

- SOAP (Simple Object Access Protocol) is its own protocol and is a bit more complex as compare to rest Architecture in term of Security and how are message sent.(e.g., a mobile application interfacing with a bank)
- It uses XML format to transfer messages.
- SOAP was designed to be OS and Platform independent.
- Soap api message have XML format contains three parts :
  - **Envelope:**  
It specifies that the XML message is a SOAP message. A SOAP message can be defined as an XML document containing header and body encapsulated in the envelope. The fault is within the body of the message.
  - **Header:**  
This part is not mandatory. But when it is present it can provide crucial information about the applications.
  - **Body:**  
It contains the actual message that is being transmitted. Fault is contained within the body tags.



```
<?xml version='1.0' encoding='utf-8'?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <m:NumberToWordsResponse xmlns:m="http://www.dataaccess.com/webserviceserver/">
      <m:NumberToWordsResult>five hundred </m:NumberToWordsResult>
    </m:NumberToWordsResponse>
  </soap:Body>
</soap:Envelope>
```

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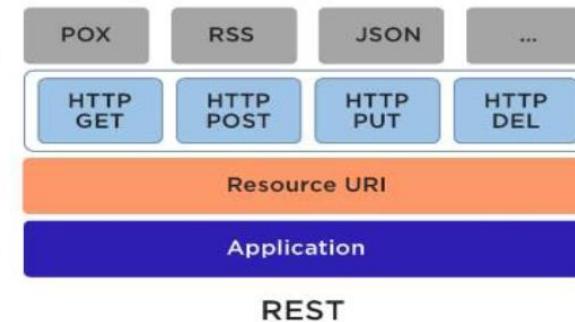
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# What is REST API ?

- REST (Representational State Transfer) is truly a “web services” API. REST APIs are based on URIs (Uniform Resource Identifier, of which a URL is a specific type) and the HTTP protocol and use JSON for a data format, which is super browser-compatible.<sup>4</sup>
- **REST API** is a way of accessing web services in a simple and flexible way without having any processing.
- REST APIs can be simple to build and scale.
- In HTTP there are five methods that are commonly used in a REST-based Architecture i.e., POST, GET, PUT, PATCH, and DELETE.





# REST vs SOAP API

Sr. No.	REST API	SOAP API
1	Rest API is implemented as it has no official standard at all because it is an architectural style.	On other hand SOAP API has an official standard because it is a protocol.
2	REST APIs uses multiple standards like HTTP, JSON, URL, and XML for data communication and transfer.	SOAP APIs is largely based and uses only HTTP and XML.
3	As REST API deploys and uses multiple standards as stated above, so it takes fewer resources and bandwidth as compared to SOAP API.	On other hand Soap API requires more resource and bandwidth as it needs to convert the data in XML which increases its payload and results in the large sized file.
4	REST API uses Web Application Description Language for describing the functionalities being offered by web services.	On other hand SOAP API used Web Services Description language for the same.
5	REST has SSL and HTTPS for security.	On other hand SOAP has SSL( Secure Socket Layer) and WS-security due to which in the cases like Bank Account Password, Card Number, etc. SOAP is preferred over REST.
6	REST stands for Representational State Transfer.	On other hand SOAP stands for Simple Object Access Protocol
7	REST can make use of SOAP as the underlying protocol for web services, because in the end it is just an architectural pattern.	On other hand SOAP cannot make use of REST since SOAP is a protocol and REST is an architectural pattern.

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# Tops Tools for API testing

- 1.Postman
- 2.SoapUI
- 3.Katalon Studio
- 4.Assertible
- 5.Tricentis Tosca
- 6.Sauce Labs
- 7.Mocklets
- 8.Swagger
- 9.Apache JMeter
- 10.REST Assured



Notes



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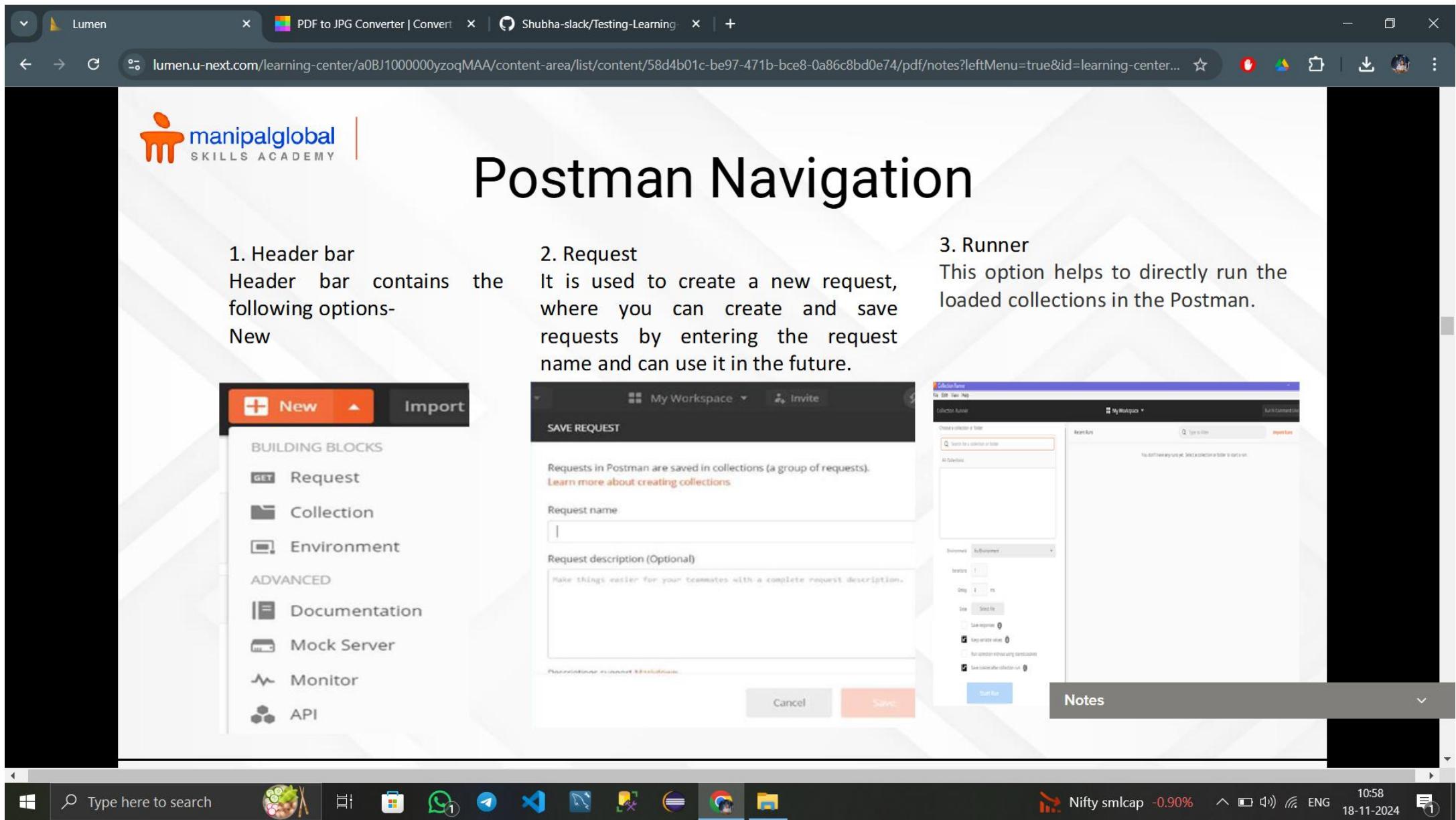


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#### 4. Environment

Environments are variables with key-values. Every variable name represents its key. So if we reference the name of the variable, it enables us to access its corresponding value. So it basically saves the values you frequently use in an environment.

##### MANAGE ENVIRONMENTS

###### Add Environment

Environment Name	VARIABLE	INITIAL VALUE ⓘ	CURRENT VALUE ⓘ	...	Persist All	Reset All
	Add a new variable					

ⓘ Use variables to reuse values in different places. Work with the current value of a variable to prevent sharing sensitive values with your team. [Learn more about variable values](#)

Cancel

Add

##### Notes



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# What is collection in Postman?

Postman collections are a group of requests you can organize into folders. It is very useful in keeping the workspace organized.

1. Saves time in transferring the requests as it is very easy to import or export a collection.
2. Setting any variable for collections will automatically apply the same to the folders generated under collection.
3. Data sharing is very convenient among api's using collection variable.
4. Test written at collection level will be applicable to all the requests inside collection, no need to write common test cases again and again for different requests.
5. All requests can execute at once using collection runner.
6. Data driven testing can be done using csv or excel file .
7. Continuous integration can be done easily with the help of collection and Newman.

Home Workspaces Reports Explore

New Import

Collections APIs Environments Mock Servers Monitors

Customer APIs

Create new Collection

GET Get users  
POST Add user  
PUT Update user  
DEL Remove user

Accounts  
Communications  
Customers  
Staff

Notes



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Lumen PDF to JPG Converter | Convert Shubha-slack/Testing-Learning- Step to add Collection

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# Step to add Collection

- Select New > HTTP Request.

Create New

Building Blocks

- HTTP Request: Create a basic HTTP request
- Collection: Save your requests to a collection for reuse and sharing
- WebSocket Request: Test and debug your WebSocket connections
- Environment: Define environments you frequently use in your workspace
- gRPC Request: Test and debug your gRPC requests
- Workspace: Create a workspace to build independently or in collaboration

Advanced

- API Documentation: Create and publish beautiful documentation for your APIs
- Mock Server: Create a mock server for your APIs in development
- API: Manage all aspects of API design, development, and testing
- Flows: Create API workflows for connecting series of requests through a drag-and-drop UI

Not sure where to start? Explore featured APIs, collections, and workspaces published by the Postman community.

SAVE REQUEST

Request name: https://postman-echo.com/get

Description: My \*first\* request.

Save to: Select a collection/folder

Search for collection or folder: my first collection

Create Cancel Notes

My New Workspace

New Import Collections + see APIs

my first collection GET https://postman-echo.com/get

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# Builder or Request section

Below screen appear when we add a new request to a collection

The screenshot shows the Postman application interface. At the top, there's a navigation bar with 'File', 'Edit', 'View', 'Help', 'New', 'Import', 'Runner', 'My Workspace', 'Invite', and environment dropdowns. Below the bar, a tab labeled 'Untitled Request' is selected. The main area contains a 'GET' method, an 'Enter request URL' input field, and a 'Send' button. Below this, there are tabs for 'Params', 'Authorization', 'Headers (6)', 'Body', 'Pre-request Script', 'Tests', and 'Settings'. Under the 'Params' tab, there's a table with columns 'KEY', 'VALUE', and 'DESCRIPTION'. A single row is present with 'Key' and 'Value' both set to 'Value'. To the right of the table, there are '...', '...', and 'Description' buttons.

- **Untitled Request**

'Untitled request' is basically the default request title you are working on. The title depends on the type of request method you are working on, as shown in the image below.

This screenshot shows the Postman interface with two requests listed: 'GET Untitled Request' and 'POST Untitled Request'. The 'POST' request is currently selected. The interface is identical to the one above, with a 'POST' method, an 'Enter request URL' input field, and a 'Send' button. To the right, there's a 'Notes' section.

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**manipalglobal**

**HTTP request:** This option opens a drop-down list of all the HTTP request methods, as shown in the image like GET, DELETE, PATCH, OPTIONS, LINK, POST, COPY, UNLOCK, PURGE, etc. In general, we mostly use POST and GET.

↓

**Untitled Request**

**Method:** GET http

METHOD	Params	Auth	Headers
GET	https://fffc2eb4-dbcf-4c6d-bc30-c3cb2e7ecfa6.mock.pstmn.io/		
POST	https://simplekart.postman.com/items?list={{itemListValue}}		
PUT	https://simplekart.postman.com/items/1657		
PATCH	https://simplekart.postman.com/orders?list={{orderListValue}}		
DELETE	https://simplekart.postman.com/orders		
COPY	https://simplekart.postman.com/orders/{{orderID}}		
HEAD			

**Params:** This option is used to write the parameters of the request. These parameters include key values and descriptions.

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies Code

Query Params			
KEY	VALUE	DESCRIPTION	Bulk Edit
Key	Value	Description	...

Notes

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**manipalglobal** SKILL YOU HAVE PERMISSION

**Authorization:** The authorization process is required to access the APIs. This process verifies whether you have permission from the server to access the data you want. We will discuss this as a complete chapter later on.

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

**TYPE**

Inherit auth from parent

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

This request is not inheriting any authorization helper at the moment. Save it in a collection to use the parent's authorization helper.

- Headers** : An HTTP request header is the additional data that is required to send along with the request. This header information is required for proper two-direction communication between the client and the server.
- Body** : It let you specify the data type that you need to send with a request. There are various types of body data that you can send to match your API.

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies Code

none  form-data  x-www-form-urlencoded  raw  binary  GraphQL

This request does not have a body

Notes

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 **maniphest global** SKILL LEVEL: EXPERT

**Pre-request script**: These are written in JavaScript, and as the name suggests, these are executed before sending the request. Generally, these scripts are for setting the environment and ensuring that the request is running in the right environment.

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies Code

Pre-request scripts are written in JavaScript, and are run before the request is sent.  
[Learn more about pre-request scripts](#)

SNIPPETS  
Get an environment variable  
Get a global variable  
Get a variable  
Set an environment variable  
Set a global variable  
Clear an environment variable

- **Test scripts**: It is executed during the request. It is also written in JavaScript. This helps you to ensure that API works as intended. Testing is important as it sets up checkpoints to verify whether the response status is ok and retrieved data is as expected.

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Test scripts are written in JavaScript, and are run after the response is received.  
[Learn more about tests scripts](#)

SNIPPETS  
Get an environment variable  
Get a global variable  
Get a variable  
Set an environment variable  
Set a global variable  
Clear an environment variable

Notes

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# CRUD operation in Postman

## GET :

- This HTTP method is used to read/retrieve resource representation only.
- It is called Safe methods as it can not modify information.
- It should retrieve same information for multiple identical requests until any other API has changed the state of resource.
- That's why it is also called as idempotent method. Response is returned in JSON/XML format.

## Status Code :

- Success : 200 (OK) → If GET API finds the requested resource.
- Failure : 404( Not Found) → If GET API does not find the requested resource.
- Failure : 400 ( Bad Request) → If GET request is not formed properly.

Notes

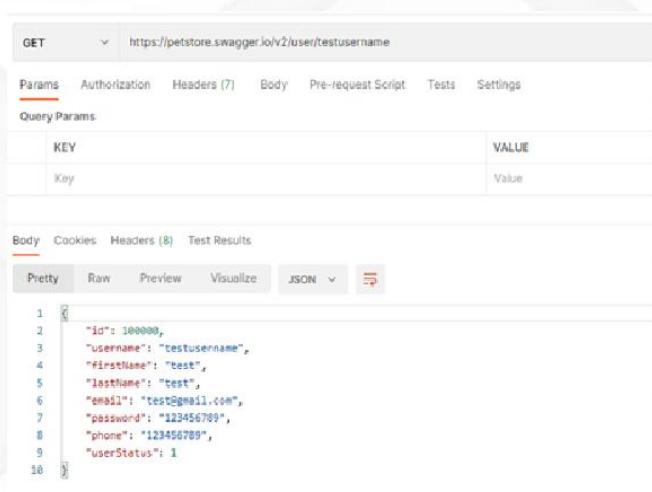
Lumen PDF to JPG Converter | Convert Shubha-slack/Testing-Learning- Example for Get Method :

1. Open Postman import the collection shared.

2. Open “get user details by username” get request.

3. URI : <https://petstore.swagger.io/v2/user/testusername>

4. In above URI “testusername” is a username which we are passing to get details of that specific user



The screenshot shows a Postman collection named "Shubha-slack/Testing-Learning-". The main page features the Manipal Global Skills Academy logo and the title "Example for Get Method :". Below this, there is a list of four steps to perform. To the right, a detailed view of a POST request is shown. The request URL is "https://petstore.swagger.io/v2/user/testusername". The "Body" tab is selected, displaying a JSON response with the following content:

```
1
2   "id": 100000,
3   "username": "testusername",
4   "firstname": "test",
5   "lastname": "test",
6   "email": "test@gmail.com",
7   "password": "123456789",
8   "phone": "123456789",
9   "userStatus": 1
10 }
```

A "Notes" section is visible at the bottom right of the Postman interface.



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# CRUD operation in Postman

## PUT :

- An HTTP PUT method is used to primarily update the resource information but it also can be used to create a new resource (Depends on API development) if requested resource is not available.
- PUT is not a safe method as it performs data creation and modifications but it is idempotent as if we hit the same request again, it operates on same existing resource.

## Status Code :

- Success : 200 ( OK), 201 (Created) and 204(No Content)

## Delete :

- An HTTP DELETE method is used to delete an existing resource from collection of resources..
- It is not a safe method as it performs on modification of data. If we hit the same request again after first hit, it will give you 404 ( Not Found) . So DELETE request are idempotent after second call onward.

## Status Code :

- Success : 200 ( OK), 201 (Created) and 202(Accepted)
- Failure : 404 ( Not Found)

Notes



## Example for put Method :

1. Open Postman import the collection attached below.
2. Open “update user details by username” get request.
3. URI :  
<https://petstore.swagger.io/v2/user/testusername>
4. we need to pass full body with updated values.

The screenshot shows the Postman interface with the following details:

- API Practice / update user details by username**
- PUT** <https://petstore.swagger.io/v2/user/testusername>
- Body (JSON)**:

```
1 {
2   "id": 100000,
3   "username": "testusername123",
4   "firstName": "t-test",
5   "lastName": "test",
6   "email": "test@gmail.com",
7   "password": "1234567891",
8   "phone": "123456789",
9   "userStatus": 1
10 }
```
- Body Results (Pretty)**:

```
1 {
2   "code": 200,
3   "type": "unknown",
4   "message": "100000"
5 }
```
- Notes**



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# CRUD operation in Postman

## POST :

- A HTTP POST method is used to create a new resource in collection of resources with a request body passed as a JSON/XML..
- POST is not safe method as it is related to data creation. It is also not **idempotent** and invoking two identical POST requests will result in two different resources containing the same information with just different resource ids.

## Status Code :

- Success : 201 (Created) → (Not always) and returns response body.
- Success : 200 ( OK) and 204(No Content) → Based on coding

Notes



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## Example for Post Method :

1. Open Postman import the collection attached below.
2. Open “create single user using post method” get request.
3. URI : <https://petstore.swagger.io/v2/user>
4. we need to pass body to create data where id and username should be unique.
5. Also selected highlighted area.

The screenshot shows the Postman interface with the following details:

- Method:** POST
- URL:** <https://petstore.swagger.io/v2/user>
- Body (JSON):**

```
1
2   "id": 1020,
3   "username": "test789",
4   "firstName": "test132",
5   "lastName": "test123456",
6   "email": "test123456@gmail.com",
7   "password": "123456789",
8   "phone": "123456789",
9   "userStatus": 1
```
- Response Body (Pretty):**

```
1
2   "code": 200,
3   "type": "unknown",
4   "message": "1020"
```



## Example for Delete Method :

1. Open Postman import the collection attached below.
2. Open “Delete username details by passing username” get request.
3. URI :  
<https://petstore.swagger.io/v2/user/testusername123>
4. we need to pass username in uri and it will delete the records

The screenshot shows a Postman collection interface. The main window displays a 'DELETE' request for the URL <https://petstore.swagger.io/v2/user/testusername123>. The 'Params' tab is selected, showing a single parameter 'Key' with the value 'Value'. Below the request, the 'Body' tab is active, showing a JSON response:

```
1
2   "code": 200,
3   "type": "unknown",
4   "message": "testusername123"
```

A 'Notes' section at the bottom right contains the text 'Notes'.



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# Type of Parameters :

- Header Parameters :** Header just includes authorization parameters that are common across all endpoints; as a result, the header parameters aren't usually documented with each endpoint.
- Path Parameters :** Parameters within the path of the endpoint and are not optional, before the query string (?). These are usually set off within curly braces

```
/service/myresource/user/{user}/bicycles/{bicycleId}
```

- Query String Parameters:** Parameters in the query string of the endpoint, after the (?). The question mark followed by the parameters and their values is referred to as the “query string.” In the query string, each parameter is listed one right after the other with an ampersand (&) separating them. The order of the query string parameters does not matter.

```
/surfreport/{beachId}?time=1400&units=metric&days=3
```

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# manipalglobal SKILLS ACADEMY

# Variable :

*Variables* enable you to store and reuse values in Postman. By storing a value as a variable, you can reference it throughout your collections, environments, requests, and test scripts. Variables help you work efficiently

The screenshot shows the Postman interface. On the left, there's a sidebar with the 'manipalglobal SKILLS ACADEMY' logo. The main area has a large title 'Variable :'. Below it, a text block explains what variables are and how they help. To the right, there's a 'GET' request editor with a URL field containing '({base\_url})/get'. A tooltip is open over this field, showing details about the 'base\_url' variable: 'INITIAL https://postman-echo.com', 'CURRENT https://postman-echo.com', and 'SCOPE Environment'. On the left, there's a table of variables with columns for VARIABLE, TYPE, INITIAL VALUE, and CURRENT VALUE. It lists three variables: 'base\_url' (default type, initial and current values are 'https://postman-echo.com'), 'environment\_id' (default type, initial and current values are '1850107-47d15285-1259-4103-a8c7-48554a3...'), and 'auth\_key' (secret type, initial and current values are '\*\*\*\*\*').

### Scope of Variable :

- **Global variables** enable you to access data between collections, requests, test scripts, and environments. Global variables are available throughout a [workspace](#).
- **Collection variables** are available throughout the requests in a collection and are independent of environments. Collection variables don't change based on the selected environment.
- **Environment variables** enable you to scope your work to different environments, for example local development versus testing or production. One environment can be active at a time
- **Local variables** are temporary variables that are accessed in your request scripts. Local variables are scoped to a single request or collection run, and are no longer available when the run is complete.



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# What is Authentication and Authorization

- **Authentication** : Authentication is a process to prove that you are the person you intend to be.
  - For e.g. while logging into your email account, you prove that **you are you** by providing a **Username** and a **Password**. If you have the **Username** and the **Password** you are who you profess to be. This is what Authentication means.

```
Status code: 401
Status message:
{
  "StatusID": "FAULT_USER_INVALID_USER_PASSWORD",
  "Status": "Invalid or expired Authentication key provided"
}
```

- **Authorization** : Authorization is the process of giving access to someone. If you are Authorized then you have access to that resource.



**Authorization**  
What you can do



**Authentication**  
Who you are

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# Authentication in API :

- The HTTP Protocol also defines HTTP security auth schemes like:
  - Basic : The sender places a username: password into the request header. The username and password are encoded with Base64, which is an encoding technique that converts the username and password into a set of 64 characters to ensure safe transmission.  
Here's an example of a Basic Auth in a request header:  
`Authorization: Basic bG9sOnNlY3VyZQ==`
  - Bearer : Bearer authentication (also called token authentication) is an HTTP authentication scheme that involves security tokens called bearer tokens. The bearer token allowing access to a certain resource or URL and most likely is a cryptic string, usually generated by the server in response to a login request  
`Authorization: Bearer <token>`
  - OAuth : OAuth 2.0 creates secured access tokens that are refreshed periodically using a series of procedural verification protocols known as grant types. These grant types act as proxy authentication mechanisms that direct the flow of API access requests without exposing the underlying credentials, tokens and other authentication information associated with those requests.

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# Rest API Response Codes :

## #1) 100 Series

These are temporary Responses

- 100 Continue
- 101 Switching Protocols
- 102 Processing

## #2) 200 Series

The client accepts the Request, being processed successfully at the server.

- 200 – OK
- 201 – Created
- 202 – Accepted
- 204 – No Content

## #2) 300 Series

Most of the codes related to this series are for URL Redirection.

- 301 – Moved Permanently
- 302 – Found
- 303 – Check Other
- 304 – Not Modified

## #2) 400 Series

These are specific to client-side error.

- 400 – Bad Request
- 401 – Unauthorized
- 402 – Payment Required
- 403 – Forbidden
- 404 – Not Found

## #2) 500 Series

These are specific to the server-side error.

- 500 – Internal Server Error
- 501 – Not Implemented
- 502 – Bad Gateway
- 503 – Service Unavailable
- 504 – Gateway Timeout

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# Response Validation With Assertions in API

- Status code validation on sending request.
- Check Response type request (i.e. Json or .xml file)
- Validate Body of the response and Data is correct [?](#)
- Validate post, put request data getting stored in Database.
- Validate Json schema [?](#)

```
{  
    "page": 1,  
    "per_page": 6,  
    "total": 12,  
    "total_pages": 2,  
    "data": [  
        {  
            "id": 1,  
            "email": "george.bluth@reqres.in",  
            "first_name": "George",  
            "last_name": "Bluth",  
            "avatar": "https://s3.amazonaws.com/uifaces/faces/twitter/calebogden/128.jpg"  
        }  
    ]  
}  
  
var schema = {  
    "$schema": "http://json-schema.org/draft-04/schema#",  
    "type": "object",  
    "properties": {  
        "data": {  
            "type": "array",  
            "properties": {  
                "id": {  
                    "type": "integer"  
                },  
                "email": {  
                    "type": "string"  
                },  
                "first_name": {  
                    "type": "string"  
                },  
                "last_name": {  
                    "type": "string"  
                },  
                "avatar": {  
                    "type": "string"  
                }  
            },  
            "required": [  
                "id",  
                "email",  
                "first_name",  
                "last_name",  
                "avatar"  
            ]  
        },  
        "required": [  
            "data"  
        ]  
    }  
};
```

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# API contract

## What is an API contract?

- Basically an API contract is a document that describes how the API works
- it's important to know that it's also an agreement from API developers that the product they put out works how they say it does.
- Any changes to the API should be reflected in the contract otherwise anyone who consumes it will not be aware.

## Why is an API contract needed?

- When making changes to an API those changes should be communicated out and documented to avoid unexpected behavior from clients that consume it.
- For Example : Imagine you have an app that depends on some data from an API. Let's say the API developers decide to rename a field or the type of response your client application will break.

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Lumen PDF to JPG Converter | Convert Shubha-slack/Testing-Learning- API Contract URL for reference : [Swagger UI](#)

**POST /pet/{petId}/uploadImage** uploads an image

**Parameters**

Name	Description
petId <small>* required</small>	ID of pet to update
integer(10,64)	petId
additionalMetadata	Additional data to pass to server
string	additionalMetadata
file	file to upload
file	Choose File No file chosen

**Responses**

Code	Description
200	successful operation

Example Value : Model

```
{ "code": 200, "type": "string", "message": "string" }
```

**GET /store/order/{orderId}** Find purchase order by ID

For valid response try integer IDs with value >= 1 and <= 10. Other values will generate exceptions

**Parameters**

Name	Description
orderId <small>* required</small>	ID of pet that needs to be fetched
integer(10,64)	orderId

**Responses**

Code	Description
200	successful operation
Example Value : Model	{ "id": 0, "petId": 0, "quantity": 0, "shipDate": "2020-12-20T00:00:00Z", "status": "placed", "complete": true }
400	Invalid ID supplied
404	Order not found

**Notes**



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# API Contract

URL for reference : [Swagger UI](#)

**POST /pet/{petId}/uploadImage** uploads an image

uploads an image

Parameters

Name	Description
petId * required	ID of pet to update integer(xint32) (path)
additionalMetadata	Additional data to pass to server. string (formdata)
file	file to upload file (formdata)

Try it out

Responses

Code	Description
200	successful operation

Example Value - Model

```
{ "code": 200, "type": "string", "message": "string" }
```

**GET /store/order/{orderId}** Find purchase order by ID

Find purchase order by ID

For valid response try Integer IDs with value >= 1 and <= 10. Other values will generate exceptions

Parameters

Name	Description
orderId * required	ID of pet needs to be fetched integer(xint32) (path)

Try it out

Responses

Code	Description
200	successful operation

Example Value - Model

```
{ "id": 0, "petId": 0, "quantity": 0, "shipDate": "2023-12-26T10:05:04.875Z", "status": "placed", "complete": true }
```

400 Invalid ID supplied

404 Order not found

## Notes



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# Thank you

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