# Postman API Fundamentals Student Expert certification

#### Course Overview

Welcome

- Before you start
- Register as a Postman Student

### What are APIs?

- Application Programming Interfaces
- APIs A Digital Restaurant

## ✓ ☐ Types of APIs

○ ✓ Quiz #1: What Are APIs?

### Introducing Postman

- An API Platform
- ☐ The API First World
- Quiz #2 Introducing Postman

#### Your First API Request

- ☐ Task: Create a workspace
- ☐ Task: Create a collection
- Task: Get books from the Library API
- Request-Response pattern
- Quiz #3: Your First API Request

## Request Parameters

- Variables in Postman
- Query parameters
- ☐ Task: Search books by genre

## Previous

## Types of APIs

### Medium

While this course will focus on Web APIs, it is important to know that "API" can apply to a broad range of interfaces.

#### + Hardware APIs

Interface for software to talk to hardware. Example: How your phone's camera talks to the operating system.

### **Software Library APIs**

Interface for directly consuming code from another code base. Example: Using methods from a library you import into your application.

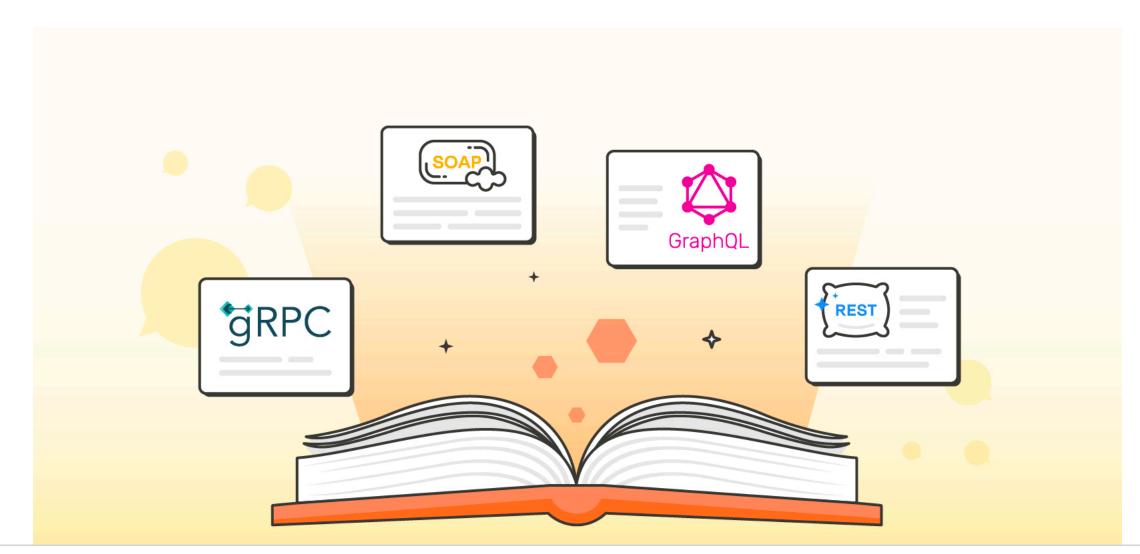
#### Web APIs

Interface for communicating across code bases over a network. Example: Fetching current stock prices from a finance API over the internet.

Multiple API types may be used to achieve a task. For example, uploading a photo to Instagram makes use of various APIs:

- 1. Hardware API for the app to talk to your camera
- 2. Software library API for the image to be processed with filters
- 3. Web API for sending your image to Instagram's servers so your friends can like it!

### Architectures



There is more than one way to build and consume APIs. Some architecture types you may come across are:

- ♦ REST (Representational State Transfer)
- → GraphQL
- WebSockets
- webhooks
- ♦ SOAP (Simple Object Access Protocol)
- gRPC (Google Remote Procedure Call)
- MQTT (MQ Telemetry Transport)
- On't worry about knowing all of these! **This course will focus on REST APIs** since this is the most widely adopted API architecture.

#### Some traits of REST APIs include not storing session state between requests, the ability to cache, and the ability to send and receive various data types. Still confused? Don't worry; we will learn hands-on very soon in this course!

**REST APIs** 

Access

APIs also vary in the scope of who can access them.

- Public APIs (aka Open APIs)
  - Consumed by anyone who discovers the API
- Private APIs
  - Consumed only within an organization and not made public
- Partner APIs

Consumed between one or more organizations that have an established relationship

The API we will use in this course will be a **Public, REST, Web API** .

You can read more about types of APIs on the Postman Blog.



