

# Creating REST services

## Contact Info

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## 1 Overview

Representational state transfer, or REST, is a method of providing communication between systems using the Internet. With the advent of mobile apps and the need to couple different services into a single application, REST APIs has been the common way of linking together different functions. In fact, Uber was built primarily as a combination of various REST APIs from other vendors, such as Google, MapBox, and Google again for maps; Twilio for text and voice communications; and indeed, Uber *itself* provides APIs for other apps, such as the United Airlines. This course will cover the approaches to building REST services and building our own REST API.

## 2 Duration

This is a 4-hour course.

## 3 Objectives

- Understand HTTP communication
- Understand what is an API
- Understand different methods of authorization and management of REST APIs
- Consuming and creating a REST API

## 4 Key Takeaways

After this course, you will be able to:

- Know how to consume a REST API
- Know how to create a simple REST API

## 5 Prerequisites

- Requires a working knowledge of Python, Javascript, or another programming language. Our *Network Programming* course is also preferable to understand how HTTP works.

## **6 Required Materials**

For this, you will need the following:

- Workbook (provided)
- Laptop with Docker

## **7 Schedule/Topics Discussed**

- Basics of HTTP
- How REST relates with HTTP
- Definition of API
- Authorizing use of REST APIs
- Consuming vendor REST APIs
- Creating your own REST API