

Fundamentals of REST API

Duration:

6 x 4 hours (8:30 AM to 12:30 PM)

Detailed Course Outline

- Overview of REST API
 - The REST Vision
 - Understanding HTTP
 - RFC 2616
 - HTTP verbs
 - Content negotiation
 - CRUD Operations and Business Operations
- Testing API calls using tools
 - Postman
 - Insomnia
 - REST Client VS Code extension
 - cURL command
- Making API calls
 - GET
 - POST
 - PUT
 - DELETE
 - PATCH
 - Authentication and Authorization
 - BASIC
 - JWT
- Basic Python scripting
 - Introduction to Python scripting
 - Python modules
 - Functions (creating and invoking)
 - Control flow
 - Conditionals
 - loops
 - Data types
 - Primitives
 - collections
 - Regular expressions
- Creating REST APIs using Flask
 - Installing Flask
 - Your first Flask application

- HTTP Verbs
 - REST Principles
 - Creating our application endpoints
 - Returning a list of stores
 - Implementing other CRUD endpoints
 - Using Postman for API testing
- Python script for consuming REST API
 - Getting Started With requests
 - The GET Request
 - The Response
 - Status Codes
 - Content
 - Headers
 - Query String Parameters
 - Request Headers
 - Other HTTP Methods
 - The Message Body
 - Inspecting Your Request
 - Authentication