Introduction to Working with APIs

Course ID #: 7000-1225-ZZ-Z
Hours: 4
Delivery Method: Group Internet Based

[Document title]

Course Content

Description:

In this course, you will cover: Working with APIs is for anyone who want to learn how apps and websites connect to outside services, data sources, and AI platforms through code. The course introduces APIs in practical, beginner-friendly terms, showing students how requests and responses work, how to read API documentation, and how to understand common requirements such as authentication, rate limits, and response formats.¶¶Students will learn how to make API calls, process the data that comes back, handle common errors, and display API results in a simple user interface. By the end of the course, students will also know how to connect an app to an AI API and use the response to add an AI-powered feature to a project.

Objectives:

- Upon successful completion of this course, students will:
- Understand what APIs are and how they allow apps and websites to connect with outside services, data, and AI platforms.
- Learn the basics of HTTP requests and responses in a practical, beginner-friendly way.
- Use API documentation to identify endpoints, authentication requirements, request options, and response formats.
- Make API calls from code and interpret the data returned by an outside service
- Parse, validate, and use API response data in an app or website.
- Handle common API issues such as authentication errors, rate limits, failed requests, and unexpected data.
- Connect an app to an AI API and integrate the response into a simple AI-powered feature.

Prerequisites:

Students should be comfortable working with basic app or website code and should understand how to create, revise, and troubleshoot simple features with guidance.

Topics:

What APIs Are and HTTP Fundamentals

- API Concepts and Use Cases
- HTTP Request/Response Mechanics
- Authentication and Rate Limits¶
- Documentation Navigation Drill
- Manual Request and Interpretation

Making Your First API Call

- Client Libraries and Request Construction
- Parsing and Validation

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- Async and Error Patterns
- Build API Fetch Module
- Integrate Data into UI
- Response and Failure Handling
- Build First AI API Call
- Integrate AI Insight Feature

Calling AI APIs from Your App

- AI API Platform Basics
- Secure Key and Config Management

Register for this class by visiting us at:
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NASBA Information

Level: Basic
Advanced Preparation: None
Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.
Recommended Field(s) of Study: Computer Software & Applications
Recommended CPEs: 4.50

Policies: Course Registration, Cancellation, Refund, and Complaint Resolution
For more information regarding administrative policies such as complaint and program cancellation policies, please contact our offices at 800-639-3535 or visit us at: www.tcworkshop.com

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