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Course Overview

Course Details

Course Name: API & Web Services Fundamentals

Instructor: Priya Sharma

Created On: 16 June, 2025

Updated On: 16 June, 2025

Price: 4500 INR

Duration: 3 weeks

Modules: 6

Language: English, Hindi

Level: Beginner, Expert

Certifications: Yes

Course Description

In today's connected world, APIs are the backbone of software. This course provides a fundamental understanding of what web services and APIs are and how they work. We cover the core architectural styles that dominate modern development: REST and GraphQL.

You will learn the principles of REST, including resources, HTTP verbs, and statelessness. We'll explore the structure of a GraphQL query and understand why it's a powerful alternative to REST. The course also covers common data formats like JSON, and essential authentication strategies used to secure APIs, such as API Keys and JWT.

What You'll Learn:

- Core concepts of APIs and Web Services.
- In-depth understanding of RESTful principles.
- An introduction to GraphQL.
- Common data formats like JSON.
- API authentication and security concepts.

Who Is This Course For?

This course is for aspiring front-end and back-end developers, project managers, and anyone who needs to understand how modern applications communicate.

Course Curriculum Details

Module 1: Module 1: Introduction
1 Lessons

1. What is an API?   **20min**

Module 2: Module 2: REST Architecture
2 Lessons

1. REST Principles   **30min**

2. HTTP Verbs and Status Codes   **30min**

Module 3: Module 3: Introduction to GraphQL
1 Lessons

1. What is GraphQL and How it Differs from REST   **35min**

Module 4: Module 4: Data Formats

1 Lessons

1. Working with JSON   **25min**

Module 5: Module 5: API Security

2 Lessons

1. Authentication vs. Authorization   **20min**

2. Common Authentication Patterns   **30min**

Module 6: Module 6: Final Project

1 Lessons

1. Design a REST API for a Blog   **1hr**

This curriculum is subject to minor adjustments to ensure the most up-to-date and effective learning experience.