



ELEVO LABS

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Course Overview

Course Details

Course Name: Securing APIs with JWT (JSON Web Tokens)

Instructor: David Chen

Created On: 16 June, 2025

Updated On: 16 June, 2025

Price: 5500 INR

Duration: 4 weeks

Modules: 6

Language: English, Hindi

Level: Intermediate

Certifications: Yes

Course Description

Learn the modern standard for securing APIs and web applications. This course provides a deep dive into JSON Web Tokens (JWT), explaining what they are, how they work, and how to implement them in a real-world backend application.

We break down the structure of a JWT (Header, Payload, Signature) and show you how to create and sign them securely. You will learn to build a complete authentication system where users can register and log in to receive a token. We'll then create protected routes and write middleware to verify incoming tokens, ensuring only authenticated users can access certain data. We'll also cover best practices for storing tokens on the client and the role of

refresh tokens for enhanced security.

What You'll Learn:

- The structure and purpose of JSON Web Tokens.
- How to create, sign, and verify JWTs.
- Building a complete authentication flow (register, login).
- Protecting API routes with authentication middleware.
- Best practices for token storage and security.
- Implementing refresh tokens to improve user experience.

Who Is This Course For?

This course is for backend and full-stack developers who want to learn how to properly secure their APIs. A solid understanding of a backend language like Node.js or Python is required.

Course Curriculum Details

Module 1: Module 1: Introduction to JWT

2 Lessons

1. Stateless vs. Stateful Authentication **20min**

2. Anatomy of a JWT **25min**

Module 2: Module 2: Creating and Verifying JWTs

1 Lessons

1. Signing and Verifying Tokens **30min**

Module 3: Module 3: Building an Authentication API

2 Lessons

1. User Registration and Password Hashing **30min**

2. Login Route and Issuing Tokens **35min**

Module 4: Module 4: Protecting Routes

1 Lessons

1. Writing Authentication Middleware **40min**

Module 5: Module 5: Token Handling

2 Lessons

1. Storing Tokens on the Client-Side **25min**

2. Implementing Refresh Tokens **35min**

Module 6: Module 6: Final Project

1 Lessons

1. Build a Secure API with Public and Private Routes **1hr 30min**

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