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COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3ICIN:U72900HR2021PTC096283

Email : query@countryedu.com,grievances@countryedu.com

1-Month API Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

- Understanding API architecture, communication protocols, and integration methodologies
- Developing expertise in RESTful API development, testing, and documentation
- Learning backend connectivity, authentication mechanisms, and data exchange techniques
- Building secure, scalable, and high-performance APIs for web and mobile applications
- Understanding API security, deployment, monitoring, and optimization practices
- Preparing students for careers in API Development, Backend Engineering, Software Development, and System Integration

Program Structure :

- Duration: 4Weeks (1 Month)
- Mode: Hybrid / Live / Classroom
- Tools Used: Node.js, Express.js, Postman, MongoDB, MySQL, Swagger, GitHub, VS Code
- Final Outcome: API Development Project + Internship Certificate

Week 1: API DEVELOPMENT FUNDAMENTALS

- Introduction to APIs & Web Services
- API Architecture Fundamentals
- HTTP Methods & Status Codes
- RESTful API Concepts
- Client-Server Communication
- Development Environment Setup

~ Outcome: Strong foundation in API development concepts and modern web communication protocols.

Week 2: REST API DEVELOPMENT & DATABASE INTEGRATION

- Building REST APIs using Express.js
- Route Handling & Middleware
- CRUD Operations
- MongoDB & MySQL Integration
- Data Validation Techniques
- Error Handling Fundamentals

~ Outcome: Ability to develop functional APIs integrated with databases and business logic.

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Week 3: AUTHENTICATION, TESTING & DOCUMENTATION

- API Authentication Fundamentals
- JWT Authentication
- Role-Based Access Control
- API Testing using Postman
- Swagger API Documentation
- API Security Best Practices

~ Outcome: Ability to develop secure, well-documented, and thoroughly tested APIs.

Week 4: DEPLOYMENT & PROJECT DEVELOPMENT

- Third-Party API Integration
- API Performance Optimization
- Cloud Deployment Fundamentals
- Git & GitHub Version Control
- Industry Best Practices
- Project Development & Presentation

~ Outcome: Ability to deploy, optimize, and manage production-ready APIs following professional standards.

LIVE PROJECT & CAREER READINESS

Students work on real-world API Development projects such as:

- E-Commerce Product API
- Authentication & User Management API
- Student Management API
- Inventory Management API
- CRM Integration API
- Payment Gateway Integration System

Project Includes:

- Requirement Analysis & API Design
- Database Integration
- REST API Development
- Authentication & Security Implementation
- Testing & Documentation
- Deployment & Final Project Presentation

~ Outcome: Hands-on experience in developing industry-level APIs demonstrating backend integration, security implementation, testing, documentation, and deployment capabilities.

From beginner to job-ready — Become an API Development Professional in 1 Month.