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Sign up

Itesoft Integration APIs training

2 days (14 hours)

Presentation

Itesoft Integration APIs is the key interface for connecting the Itesoft platform to your application ecosystem.

By exposing REST and SOAP services, it enables document flow automation, ERP/GED/CRM integration and process orchestration.

This training course will teach you how to exploit APIs, secure exchanges (OAuth2, TLS), supervise calls and optimize performance.

You'll learn how to read Swagger/OpenAPI documentation, consume services from various environments and build robust integrations.

Based on Itesoft's Streamline and Capture as a Service solutions, this training course is based on the latest stable SaaS release.

Objectives

- Understand the architecture and use cases of Itesoft Integration APIs
- Consume REST and SOAP APIs securely and robustly
- Integrate APIs with IS (ERP, EDM, CRM, workflows)
- Monitor calls and analyze performance
- Optimize and document integrations
- Automate testing and deployment of API scripts

Target audience

- Application developers
- Software architects
- Systems integrators

- IT project managers

Prerequisites

- Basic knowledge of REST/SOAP APIs and JSON/XML formats
- Notions of authentication and secure networks
- Notions of scripting language

Itesoft Integration APIs training program

Overview of Itesoft APIs and use cases

- Presentation of Itesoft Integration APIs and the Streamline ecosystem
- Applications: ERP, CRM, EDM, document automation
- Typology: REST, SOAP, webhooks, events
- Authentication concepts, API keys and tokens
- Best practices in integration architecture
- Workshop: testing an API endpoint in Postman

Setting up the technical environment

- System, network and security requirements
- Creating and configuring a test environment
- Access to official Swagger/OpenAPI documentation
- Installation of SDKs and client libraries
- Setting API rights and roles
- Workshop: configuring an API project in a local environment

Exploiting REST and SOAP APIs

- REST request structure: endpoints, verbs, payloads
- Reading and using OpenAPI/Swagger schemas
- Consumption of SOAP services: WSDL, XML and namespaces
- Managing HTTP headers, JSON/XML formats and encodings
- Strategies for avoiding errors and exceptions
- Workshop: creating a Python script calling an Itesoft REST service

Managing flows and complex integrations

- Data import/export via API
- Sequential, parallel and orchestrated calls
- High-volume management (batch, pagination)
- Integration into existing business workflows
- Bidirectional synchronization with ERP/GED
- Workshop: automating a complete multi-API workflow

Security and supervision

- OAuth2 authentication and token renewal
- Secure communications (TLS, certificates)
- Access management, roles and call quotas
- Call logging, monitoring and metrics
- Error alert configuration
- Workshop: setting up an API supervision dashboard

Optimization and best practices

- Improving response times and reducing redundant calls
- Caching and optimizing payloads
- API versioning management
- Internal documentation best practices
- Automated test plans and continuous validation
- Workshop: refactoring a script to optimize performance

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition

skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.