ProTech Professional Technical Services, Inc.

Advanced Extensibility with SAP Cloud SDK

Course Summary

Objectives

At the end of this course, students will be able to:

- Develop extension applications for RISE with SAP S/4HANA Cloud.
- Deploy extension applications to the SAP Business Technology Platform.
- Integrate extension applications with RISE with SAP S/$HANA Cloud using the SAP Cloud SDK.

Topics

- Options for extending RISE with SAP S/4HANA Cloud
- Extension use cases
- Main principles and qualities of cloud-native applications development
- Introduction to extensibility in RISE with SAP S/4HANA Cloud
- Core features for In-App and Side-by-side extensions
- Search and activate SAP APIs
- Creation of generic Java programs calling SAP APIs
- Creation of a CRUD extension application based on Java and the Spring framework
- Creation of generic JavaScript programs calling SAP APIs
- Creation of generic TypeScript programs calling SAP APIs
- Creation of a CRUD extension application based on TypeScript and the Nest framework
- Creation of a Multi-Target Application
- Introduction to application security
- Introduction to automated test
- Introduction to DevOps and Continuous Delivery
- Introduction to RISE with SAP S/4HANA Cloud event-driven extension apps

Audience

Those who can benefit from this Advanced Extensibility with SAP Cloud SDK course include:

- Developer
- Developer Consultant
- Solution Architect

Prerequisites

Essential:

- Java Development Language
- Basic concepts of Spring Boot development framework
- JavaScript and TypeScript development languages
- Basic concepts of Nest development framework
- HTTP protocol
- HTML language
- SAP S/4HANA Cloud Implementation Fundamentals
- Attendance in the SAP S/4HANA Cloud Implementation Learning Room & Live Sessions focused on RISE with SAP S/4HANA Cloud Fundamentals

Recommended:

- SAP Integration Suite and SAP Extension Suite, Introduction
- Create and Deliver Cloud-Native SAP S/4HANA Extensions
- Developing UIs with SAPUI5

Duration

Two days

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Course Outline

I. *Options for extending RISE with SAP S/4HANA Cloud*

II. *Extension use cases*

III. *Main principles and qualities of cloud-native applications development*

IV. *Introduction to extensibility in RISE with SAP S/4HANA Cloud*

V. *Core features for In-App and Side-by-side extensions*

VI. *Search and activate SAP APIs*

VII. *Creation of generic Java programs calling SAP APIs*

VIII. *Creation of a CRUD extension application based on Java and the Spring framework*

IX. *Creation of generic JavaScript programs calling SAP APIs*

X. *Creation of generic TypeScript programs calling SAP APIs*

XI. *Creation of a CRUD extension application based on TypeScript and the Nest framework*

XII. *Creation of a Multi-Target Application*

XIII. *Introduction to application security*

XIV. *Introduction to automated test*

XV. *Introduction to DevOps and Continuous Delivery*

XVI. *Introduction to RISE with SAP S/4HANA Cloud event-driven extension apps*