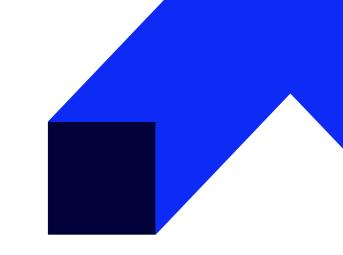# Building Transactional Apps with the ABAP RESTful Application Programming Model

- This course is a deep dive into the ABAP RESTful Application Programming Model. The primary focus lies on the transactional behavior of business objects and their consumption in OData UI services.
- You will learn to define business objects which consist of just one data node, as well as business objects consisting of a hierarchy of nodes.
- When implementing the transactional behavior, you will first use the generic data access layer (managed approach). Later you will also integrate existing legacy code (unmanaged or partially managed approach).
- You will draft-enable your business object and produce and consume business events. Finally, you will enable the extensibility of your business object and learn how to extend existing business objects.
- The course is held on SAP BTP, ABAP environment. However, most of the content is equally suitable for SAP S/4HANA cloud editions and SAP S/4HANA 2020 or later. Some features shown in the course may not be available in older SAP S/4HANA releases.

Odbiorcy szkolenia

- Developer
- Development Consultant

Korzyści

- This course will prepare you to:
  - Exploring the ABAP RESTful Application Programming Model
  - Working with ABAP RESTful Application Programming Model business objects
  - Adding Basic Operations Update and Create
  - Developing Draft-enabled Services
  - Defining Compositions
  - Implementing Unmanaged Data Access
  - Integrating Business Events
  - Enabling and Using Extensibility

Program szkolenia

- Exploring he ABAP RESTful Application Programming Model
  - Exploring the Concept and Architecture
  - Defining a CDS-based Data Model
  - Defining an OData UI Service
- Working with ABAP RESTful Application Programming Model Business Objects
  - Defining RAP BOs and their Behavior
  - Using the Entity Manipulation Language (EML) to Access RAP BOs
  - Understanding Concurrency Control
  - Defining Actions and Messages
  - Implementing Authority Checks
- Adding Basic Operations Update and Create
  - Defining Static Field Control and Value Helps
  - Implementing Input Checks using Validations
  - Setting Values using Numbering and Determinations
  - Implementing Dynamic Feature Control
- Developing Draft-enabled Services
  - Understanding the Draft Concept
  - Implementing the Behavior of Draft-Enabled BOs
- Defining Compositions
  - Defining Composite RAP Business Objects
  - Defining Compositions in OData UI Services
  - Implementing the Behavior of Composite Business Objects
- Implementing Unmanaged Data Access
  - Exploring the Behavior Implementation Options

- - Implementing Unmanaged Business Objects
  - Implementing Data Access in Managed Business Objects
- Integrating Business Events
  - Raising and Handling Business Events
  - Working with Event Parameters
- Enabling and Using Extensibility
  - Exploring Extensibility Options
  - Enabling Data Model Extensibility
  - Developing Data Model Extensions
  - Enabling and Developing Behavior Extensions

Oczekiwane przygotowanie uczestnika

Essential

- Experience in object-oriented ABAP Programming
- Experience in modern, expression-based ABAP syntax
- Basic knowledge of data modelling in ABP dictionary and ABAP Core Data Services * The recommended way to acquire the necessary knowledge is through courses S4D400, S4D401, and S4D430 or the Acquiring Core ABAP Skills learning journey.

Czas trwania

5 dni / 38 godzin

Język

Materiały: angielski
Szkolenie: polski