S4D437 - SAP Building Transactional Apps with the ABAP RESTful Application Programming Model Training

Duration: **5 Day**

BILGINÇ IT Academy
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The **Building Transactional Apps with the ABAP RESTful Application Programming Model course** is a deep dive into the ABAP RAP framework. It focuses on the **transactional behavior of business objects** and their consumption via **OData UI services**.

Participants will learn how to define both simple and hierarchical business objects and implement transactional logic effectively.

This training covers:

- ABAP RAP architecture and concepts
- Transactional business object development
- Managed and unmanaged data access approaches
- OData UI service integration
- Extensibility and event-driven architecture

The course is delivered on **SAP BTP, ABAP environment**, and is also largely applicable to:

- SAP S/4HANA Cloud
- SAP S/4HANA 2020 or later

Based on Software Release

- SAP BTP, ABAP Environment

Also applicable to:

- SAP S/4HANA Cloud
- SAP S/4HANA 2020 or later

Prerequisites

Essential:

- Experience in object-oriented ABAP programming
- Knowledge of modern ABAP syntax
- Basic data modeling with ABAP Dictionary and CDS

Recommended learning path:

- S4D400
- S4D401
- S4D430

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Who Should Attend

This course is designed for:

- Developers
- Development Consultants

What You Will Learn

After completing this course, you will be able to:

- Explore the ABAP RESTful Application Programming Model
- Work with RAP business objects
- Implement Update and Create operations
- Develop draft-enabled services
- Define compositions
- Implement unmanaged data access
- Integrate business events
- Enable extensibility

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Training Outline

Exploring ABAP RAP

- RAP concept and architecture
- CDS-based data modeling
- OData UI service definition

Business Object Development

- Defining RAP BOs and behavior
- Using Entity Manipulation Language (EML)
- Concurrency control
- Actions and messaging
- Authorization checks

CRUD Operations

- Update and Create operations
- Static field control and value helps
- Validations and input checks
- Numbering and determinations

Draft-Enabled Services

- Draft concept
- Draft behavior implementation

Compositions

- Composite business objects
- Composition in OData services

Unmanaged Data Access

- Behavior implementation options
- Legacy integration

Business Events

- Raising and handling events
- Event parameters

Extensibility

- Extensibility options
- Data model extensions
- Behavior extensions