JavaScript Business Rules

DEV 250 - Course outline

AUTHOR: Stibo Systems MDM Academy

CONFIDENTIALITY LEVEL:

Public

Target Group

This course is targeted towards software developers and architects, who will be responsible for designing and implementing custom configurations with business rules.

Pre-Requisites for Participation

Participants for the course will be expected to have:

- Stibo Systems Academy courses (or equivalent knowledge acquired by other means)
    - MDM 101 - MDM Solution Fundamentals.
- Practical experience with Java or other object-oriented programming languages, e.g. available classes and syntax.
- Practical experience of working with STEP workbench.

Course Duration

The course duration is 4 days.

Training Delivery Method

☒ In person classroom
☒ Virtual classroom
☐ Self-paced online

The course activities will be a combination of lectures, case studies in teams, problem solving exercises and presentations by the trainees.

Course Purpose

In this course, you will gain the information and expertise needed to design and implement Javascript business rules to solve business requirements. You will utilize the scripting API and be able to illustrate common challenges related to this type of business rules.

Course Objectives

Upon completion of this course, participants will be able to:

1. Demonstrate understanding of the scripting SDK when writing JavaScript business rules.
2. Identify the areas of STEP where business rules should be applied.
3. Demonstrate the ability to write JavaScript business rules conforming to best practices in the appropriate areas of STEP.
4. Demonstrate testing concepts and tools.
5. Compose a solution to meet a predefined business case using multiple STEP components and business rules.

Learning Objectives

The objectives below describe precisely what is taught during the training: (please note that the learning objectives can belong to more than one course objective).

Course Objective 1 - Demonstrate understanding of the scripting SDK when writing Javascript business rules.

Learning objectives:

- Demonstrate the use of the scripting API (JavaDoc)
- Perform lookup of return type for a method to derive the information needed to perform an action/apply a condition.
- Reconstruct the path through information "homes".

Course Objective 2 - Identify the areas of STEP where business rules should be applied.

Learning objectives:

- Explain the differences between business conditions and business actions.
- Outline the component areas where business rules are used.

Course Objective 3 - Demonstrate the ability to write Javascript business rules conforming to best practices in the appropriate areas of STEP.

Learning objectives:

- Explain which user privileges a business rule has and their impact.
- Explain the common use of binds in STEP.
- Implement Business Libraries.
- Produce a business rule which evaluates a business condition.
- Produce a business rule which performs a business action.
- Summarize the use of business rules with regards to approval.
- Summarize the use of business rules with regards to workflows.
- Construct an auto-routing of an object (entity/asset) through a workflow using business rules.
- Explain how to store and retrieve data to/from Workflow variables using business rules.
- Explain use of queues in Outbound Integration Endpoints.
- Reference correct exception handling.
- Explain the consequences of generating long transactions with JavaScript business rules.
- Add a business action to remove an object from the final state of a workflow.

Course Objective 4 - Demonstrate testing concepts and tools.

Learning objectives:

- Demonstrate the ability to use the business rule test functionality in STEP.
- Discuss context awareness when testing business rules.

Course Objective 5 - Compose a solution to meet a predefined business case using multiple STEP components and business rules.

Learning objectives:

- Justify the usage of business rules versus alternative options for solving a specific business requirement.
- Structure a solution based on a given technical design specification.

About Stibo Systems

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