Exercise 10L – Enhance Behavior with Action and Validation.

How to enhance behavior definition

SAP Partner Workshop	**20 min**

Description

In this exercise, you'll learn how:

- How to enhance behavior definition

Prerequisites

- You have completed the steps mentioned until Exercise 10K.

Target group

- Developers
- People interested in learning about development in ABAP env in SAP Cloud Platform with focus on RAP model.

Goal

The goal of this exercise is to enhance behavior definition with actions and validations.

Open the behavior definition `ZI_TRAVEL_M_XXX` and add the following action and validation to your coding

```
// instance action and dynamic action control

action  ( features: instance ) acceptTravel result [1] $self;


// validations

validation validateCustomer on save { field customer_id; }

validation validateDates    on save { field begin_date, end_date; }

validation validateStatus   on save { field overall_status; }
```

You may replace the existing code with the following code.

```
managed implementation in class ZCL_BP_I_TRAVEL_M_XXX unique;


define behavior for ZI_Travel_M_XXX alias Travel

persistent table ztravel_xxx

etag last_changed_at

lock master

{
```

```
// administrative fields (read only)
field ( readonly ) last_changed_at, last_changed_by, created_at, created_by;

// mandatory fields that are required to create a travel
field ( mandatory ) agency_id, overall_status, booking_fee, currency_code;

// dynamic field control
field (features : instance ) travel_id;

// standard operations for travel entity
create;
update;
delete;

// instance action and dynamic action control
action  ( features: instance ) acceptTravel result [1] $self;
```

```
// validations

validation validateCustomer on save { field customer_id; }

validation validateDates    on save { field begin_date, end_date; }

validation validateStatus   on save { field overall_status; }

}
```

Replace the generated code with the following code,

```
managed implementation in class ZCL_BP_I_TRAVEL_M_XXX unique;


define behavior for ZI_Travel_M_XXX alias Travel

persistent table ztravel_xxx

etag last_changed_at

lock master

{

// administrative fields (read only)

field ( readonly ) last_changed_at, last_changed_by, created_at, created_by;
```

```
// mandatory fields that are required to create a travel

field ( mandatory ) agency_id, overall_status, booking_fee, currency_code;


// dynamic field control

field (features : instance ) travel_id;


// standard operations for travel entity

create;

update;

delete;


// instance action and dynamic action control

action  ( features: instance ) acceptTravel result [1] $self;


// validations

validation validateCustomer on save { field customer_id; }
validation validateDates    on save { field begin_date, end_date; }

validation validateStatus   on save { field overall_status; }

}
```

Click Save (Ctrl-S) and Activate (Ctrl-F3).

Replace XXX with the name which you had choosed earlier.

An example :

```
projection;

define behavior for ZC_TRAVEL_M_CVP9 alias TravelProcessor
use etag
{
// scenario specific field control
field ( mandatory ) BeginDate, EndDate, CustomerID;

use create;
use update;
use delete;
}
```

```
managed implementation in class ZCL_BP_I_TRAVEL_M_CVP9 unique;

define behavior for ZI_Travel_M_CVP9 alias Travel
persistent table ztravel_cvp9
etag last_changed_at
lock master
{
// administrative fields (read only)
field ( readonly ) last_changed_at, last_changed_by, created_at, created_by;

// mandatory fields that are required to create a travel
field ( mandatory ) agency_id, overall_status, booking_fee, currency_code;

// dynamic field control
field (features : instance ) travel_id;

// standard operations for travel entity
create;
update;
delete;


// instance action and dynamic action control
action  ( features: instance ) acceptTravel result [1] $self;

// validations
validation validateCustomer on save { field customer_id; }
validation validateDates    on save { field begin_date, end_date; }
validation validateStatus   on save { field overall_status; }


}
```