

Exercise 06a | Create and Adapt Class

Objective

By the end of this exercise, you will be able to create and adapt a class for the Attribute "Product".

Why is this important?

This exercise demonstrates how classes can be created and adapted.

Key elements:



Class



Class
Reference

Instructions

1. Duplicate the Folder: **"Exercise 5 Values"** and rename it **"Exercise 6a Create and Adapt Class"**.
2. In the **"TestCaseDesign"** Folder, create a Folder named **"Classes"**.
3. Within the Folder named **"Classes"** create a Sub-Folder named **"Exercise 6a Create and Adapt Class"**.
4. Navigate to the Folder **"Exercise 6a Create and Adapt Class"** within the **"TestSheet 1 Calculate Shipping Costs"** Folder and focus on the Attribute **"Product"**.
5. Drag the Attribute **"Product"** and drop it in to the **"Classes"** within the Folder **"Exercise 6a Create and Adapt Class"** to create a new **Class** named **"Product"**.

Context

Having created a Class, we now need to adapt it to the changing circumstances of our SUT. The ordering of a second product should now be included in the "Products" Attribute. The Instances that need to be created are:

- A second physical product
- A high quantity of digital Items
- N/A for when there isn't a second product

These Instances will then allow us to deepen the testing of the shipping costs.

6. Navigate to the Class named **"Product"** and add the following 3 Instances:
 - **"Physical | 2nd Product"** (Inner/Valid)
 - **"Digital | High Quantity"** (Inner/Valid)
 - **"N/A"** (Inner/Valid)
7. Focus on the Class **"Product"**. Add the **Values** for the 3 new Instances as per the table below (there should be no Values entered for the Instance "N/A"):

	Instances		
	Physical 2nd Product	Digital High Quantity	N/A
Attributes			
Product Type	Physical	Digital	
Article	Casual Golf Belt	3rd Album	
Quantity	1	70	

8. Use “**Arrange Instances**” to reorganize the Instances within the **Class “Product”**.

Hints

- » After dragging and dropping the Attribute to create a class, the symbol on the Attribute in the TestSheet changes and will have a white arrow on a red background indicating the Class Reference.
- » To get a page overview, you can deselect *Options > TestCaseDesignUI > Hide EmbeddedScrollArea navigation columns* and in the line above select the number of columns to be displayed.

Exercise 06b | Use Class and Complete Instances

Objective

By the end of this exercise, you will be able to add the additional TestSheet Instances at the lower level required due to the addition of new products.

Why is this important?

If a TestSheet is amended, the impact to the combinations must be taken into account.

Instructions

1. Duplicate the Folder: **"Exercise 6a Create and Adapt Class"** which contains the TestSheet and rename it **"Exercise 6b Use Class and Complete Instances"**.
2. Navigate and expand the **"Ordered Products"** Attribute. Navigate to and expand the Folder **"Classes"** in the Folder **"Exercise 6a Create and Adapt Class"**. Drag the Class **"Product"** and drop it into the **"Ordered Products"** Attribute.
3. Rename Attribute **"Product"** to **"1st Product"**. Rename the newly created Attribute **"Product_1"** to **"2nd Product"**.

Context

Three new combinations must be added to the "Ordered Products" Level. This is to test three new areas:

- Shipping costs are not added twice when two products are ordered.
- If a high quantity of digital products is added to an order containing a physical product that would normally incur shipping costs, no shipping costs are incurred as the order exceeds the \$50 threshold.
- An order that includes a physical product and a digital product but has a total value below \$50 still incurs shipping costs.

4. Focus on the **"Ordered Product"** Attribute. Add 3 TestCase Instances:
 - **2 Physical (Inner/Valid)**
 - **Physical + Digital | Shipping Cost (Inner/Valid)**
 - **Physical + Digital | Free Shipping (Inner/Valid)**
5. Arrange the Instances by selecting the Attribute **"Ordered Products"** and chose **"Arrange Instances"** from the **"Optimize Instances"** button in the Ribbon. Make sure the final order of the Instances appear as follows:
 - **Physical (StraightThrough)**
 - **Digital**
 - **2 Physical (Inner/Valid)**
 - **Physical + Digital | Shipping Cost (Inner/Valid)**
 - **Physical + Digital | Free Shipping (Inner/Valid)**
 - **Free Shipping (Inner/Valid)**
 - **Free Shipping | Boundary (Inner/Invalid)**
 - **Shipping Costs Applied | Boundary (Inner/Invalid)**

6. Navigate to and expand the **“Ordered Products”** Attribute (*Process>>Ordered Products*). Where the Attributes intersect with the following TestSheet Instances, add the Values according to the table below:

	Instances							
	Physical	Digital	2 Physical	Physical + Digital Shipping Cost	Physical + Digital Free Shipping	Free Shipping	Free Shipping Boundary	Shipping Costs Applied Boundary
Attributes								
1st Product	Physical	Digital	Physical	Physical	Physical	Free Shipping	Free Shipping Boundary	Shipping Costs Applied Boundary
2nd Product	N/A	N/A	Physical 2nd Product	Digital	Digital High Quantity	N/A	N/A	N/A

Exercise 06c | Complete TestSheet Level Instances

Objective

By the end of this exercise, you will be able to create and complete the necessary TestCase Instances.

Why is this important?

The relevant TestCase Instances must now be created at the TestSheet level and, in order for all the TestCases to be readable for Automation Specialists, Values must be entered.

Instructions

1. Duplicate the Folder: "Exercise 6b Use Class and Complete Instances" and rename it "Exercise 6c Complete TestSheet Level Instances".
2. On the TestSheet level, add the 3 new Instances:
 - 2 Physical (Inner/Valid)
 - Physical + Digital | Shipping Cost (Inner/Valid)
 - Physical + Digital | Free Shipping (Inner/Valid)
3. Complete the TestSheet Instances entering the Values where they are required as per the table below:

	Instances		
	2 Physical	Physical + Digital Shipping Cost	Physical + Digital Free Shipping
Attributes			
Administration:			
Test Designer	Max Methodology	Max Methodology	Max Methodology
Contact Person	Peter Business	Peter Business	Peter Business
Test Stage	Regression	Regression	Regression
Precondition:			
Customer	Registered Address Available	Registered Address Available	Registered Address Available
Process:			
Ordered Products	2 Physical	Physical + Digital Shipping Cost	Physical + Digital Free Shipping
Checkout	Standard	Standard	Standard
Verification:			
Message	Success Message	Success Message	Success Message
Order Details / Shipping Cost	Default Shipping Costs	Default Shipping Costs	Free Shipping
Order Details/ Total Price	Order Value + Shipping Costs	Order Value + Shipping Costs	Order Value + Shipping Costs

4. At the TestSheet level, focus on the Attribute "Value Total Price". Add the Values that correspond to the actual Values that will be verified according to the table below:

	Instances		
	2 Physical	Physical + Digital Shipping Cost	Physical + Digital Free Shipping
Attributes			
Value Total Price	12.00	12.00	71.00