**Customer Review ExerciseOverview**

* In this exercise you will need to extendout of the box features.
* Do not overwrite source code found in the “customerreviewserver.jar.src” folder.
* You do not need to compile/run the exercise at the end.
* Syntax matters, do your best to write Java code that would compile (no pseudo code).

Tools you will need:

* Your favourite text editor

**Requirements**

1. Provide a way to get a product’s total number of customer reviews whose ratings are within a given range (inclusive).

Add a method to CustomerReviewManager.java

public Integer getNumberOfReviewsByRange(SessionContext ctx, Product item, int high, int low)

{

String query = "SELECT count(\*) FROM {" + GeneratedCustomerReviewConstants.TC.CUSTOMERREVIEW + "} WHERE {" +

"product" + "} = ?product” + “ AND rating BETWEEN “ + Integer.toString(high) + “ AND “ + Integer.toString(low) };

Map<String, Product> values = Collections.singletonMap("product", item);

List<Integer> result = FlexibleSearch.getInstance()

.search(query, values, Collections.singletonList(Integer.class), true,

true,

0, -1).getResult();

return (Integer)result.iterator().next();

}

1. Add the following additional checks before creating a customer review:
   1. Your service should read a list of curse words. This list should not be defined in Java class.

Suggest: Add one line in config file, set “customerreview.cursewords” as the key, the value is comma separated curse words.

* 1. Check if Customer’s comment contains any of these curse words.If it does, throw an exception with a message.
  2. Check if the rating is not < 0. If it is < 0, throw an exception with a message.

If all the rules are passed, go ahead and create the customer review.

In class CustomerReviewManager.java, in class beginning, add:

@Resource

private CustomerReviewCheck customerReviewCheck;

In the beginning of method of createCustomerReview (Double rating, String headline, String comment, User user, Product product) in class CustomerReviewManager.java

Add:

If (rating < 0.0D)

{

throw new JaloInvalidParameterException("The rating should not be negative!");

}

Try

{

this.customerReviewCheck.checkComment(comment);

}

catch (JaloInvalidParameterException e)

{

throw new JaloInvalidParameterException("Curse words in comment!");

}

1. Ensure the new functionality can be used elsewhere in the application (i.e. a bean containing the new functionality is defined within the customerreview-spring.xml).

In customerreview-spring.xml add:

<alias alias="customerReviewCheck" name="defaultCustomerReviewCheck"/>

<bean id="defaultCustomerReviewCheck" class="de.hybris.platform.customerreview.impl.DefaultCustomerReviewCheck" parent="abstractBusinessService" scope="tenant">

</bean>