# Case Study

The company is transforming into an Omni-Channel capable retailer, initiating Digital Commerce business. Linked to also this initiative, a new Omni-Channel Transformation Program is blueprinted. The program is composed of the projects below.

1. Upgrading the existing ERP to the latest version (Oracle v13.02 to V14.1)
2. Installing a robust CRM solution (Salesforce).
3. Installing an Digital commerce platform (Oracle Commerce)

You will be Oracle Commerce Consultant and will be working and reporting to Head of Digital Commerce. You will also be closely working and reporting to Digital Commerce Program Manager during the launching of platform and new brands. Current plan encompasses 20+ websites in next 2.5 years.

Please solve and present the case study problems explained below

# Problem / Challenge One:

You need to add a product review feature in Oracle Commerce and expose that as Restful API using new Actors in Oracle Commerce MVC Restful framework.

Many customers can review the product and also a customer can review many products.

You will need to take key decisions that how you are going to model your solution.

The new Actor would be called productReviewActor and it will have 3 actor-chains defined.

1. getProductReviewsByCustomer.
2. getProductReviewsForProduct
3. addProductReview

You don’t need to worry about the presentation part for the Restful API as end points can be demonstrated through any [HTTP Requester](https://addons.mozilla.org/en-US/firefox/addon/httprequester/) or even using curl.

## Get Product Reviews by Customer

The end point will return all the product reviews for the current logged in customer.

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | <http://localhost:8080/rest/model/neo/productReviews/actors/ProductReviewActor/getProductReviewsByCustomer> |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "productReviews":[  { "productId": "xprod1013", "profileId": "user00001","comments": "Nice Product must buy" },  { "productId": "xprod2500", "profileId": "user00001", " comments ": "Good Product" } ]  } |

## Get Product Reviews For Product

The end point will return all the product reviews for the productId passed.

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | <http://localhost:8080/rest/model/neo/productReviews/actors/ProductReviewActor/getProductReviewsForProduct> |
|  | {"productId": "xprod1013" } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "productReviews":[  { "productId": "xprod1013", "profileId": "user00001", "comments": "Nice Product must buy" },  { "productId": "xprod1013", "profileId": "user00002", " comments ": "Didn’t like it " } ]  } |

## Add Product Review For Product

The end point will add a review for passed product

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | <http://localhost:8080/rest/model/neo/productReviews/actors/ProductReviewActor/addProductReview> |
|  | { "productId": "xprod1013", "profileId": "user00001", "comments": "Nice Product must buy" } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {} |

### Presentation criteria:

* You can use any 11.x Oracle Commerce environment to implement the solution for the above problem. (CRS, CSA or your own)
* You should write your code / configuration in separate module named “CaseStudy” which you can easily zip and email us with the documentation describing your solution and instructions to configure.
* Needs to be submitted electronically (*please* *propose a date*) for the panel to review in advance.
* You will need to demonstrate your solution to the panel over Skype.
* It must be your own authorship, only reference other people’s articles, ideas or concepts unless you have applied them and have learnings from this.
* Please let us know if you need any further information.