

Best&Less SAP Coding test

Best and Less Use case Requirements - Use Case: A customer shops in a storefront but finds the product they are interested in is out of stock. Therefore, they want to register an interest for this specific product so that he or she can be notified when the product is back-in-stock. The system needs to send out back-in-stock notifications to customers who have registered interest for this product.

Solution Options

1. OOTB SAP CC - SAP CC provide OOTB **Customer Interests Module**. The Customer Interests module allows customers to manage product interests either in the storefront or using provided REST APIs.
2. Used OOTB “**electronics-spa**” site and data for testing and demo the custom functionality.

Code Customization to achieve the requirements – 2 new extensions created

1. **bestandlesscustomerinterestsocc** – Created a new REST endpoint which can accept user email id to *register interest in the product by sharing their email address*
2. **bestandlesscustomerinterestsfacades** – As OOTB Customer Interests Module is based on logged in users only. All OOTB “Customer Interests Module” data model and services required CustomerModel store and process Product Interest information. Created new method inside *BestAndLessCustomerFacade.java* to create a Guest User for input email id For Product Interests only with the same pattern as OOTB SAP CC do for guest checkouts
- 3.

OCC API demo and testing –

Part 1 – To create Product Interest based on user input email id

1. **Swagger** – OCC API endpoint <https://localhost:9002/occ/v2/swagger-ui/index.html#/Product%20Interests/registerProductInterest>
 - a. **URL Params**
 - i. **baseSiteId** - Base site identifier. For ex. ‘electronics-spa’
 - ii. **userId** – User identifier or one of the literals: ‘current’ for currently authenticated user, ‘anonymous’ for anonymous user
 - iii. **fields** – Response configuration. This is the list of fields that should be returned in the response body. Examples: BASIC, DEFAULT, FULL.
 - iv. **notificationType** – Notification type. For ex. ‘BACK_IN_STOCK’
 - v. **productCode** - Product identifier. For ex. ‘1978440_blue’
 - b. **Request payload -**

```
{"preferences":[{"channel":"EMAIL","enabled":true,"value":"satvee  
rmca@gmail.com"}]}
```

Not secure https://localhost:9012/oc/v2/swagger-ui/index.html#/Product%20Interests/registerProductInterests Google Lens

POST `/{baseSiteId}/users/{userId}/productinterests/register` Creates product interests by sharing email address.

Creates a product interest for a customer at a time.

Parameters Cancel Reset

Name	Description
baseSiteId * required string (path)	Base site identifier
userId * required string (path)	User identifier or one of the literals : 'current' for currently authenticated user, 'anonymous' for anonymous user
fields string (query)	Response configuration. This is the list of fields that should be returned in the response body. Examples: BASIC,DEFAULT,FULL
notificationType * required string (query)	Notification type.
productCode * required string (query)	Product identifier.

Request body * required application/json

```
{
  "preferences": [
    {
      "channel": "EMAIL",
      "enabled": true,
      "value": "satveernca@gmail.com",
      "visible": true
    },
    {
      "channel": "SITE_MESSAGE",
      "enabled": true,
      "visible": false
    }
  ]
}
```

- c. **API Response** – All Response examples and types can be checked on Swagger

Part 2 – Cron job to send notification to email id of the registered users.

OOTB “Customer Interests Module” ‘stocknotificationservices’ cron job named ‘stockLevelStatusCronJob’ defined inside extension ‘stocknotificationservices’ is used to send notification to the customer who have registered for Product Interest ‘BACK_IN_STOCK’ notification.

The screenshot displays the SAP Administration Cockpit interface. On the left, a navigation pane shows the path: **System** > **Background Processes** > **CronJobs**. The main area is titled **CronJobs** and contains a table of cron jobs. The table has columns: **Code**, **Job Definition**, **Current Status**, **Last Result**, and **Timetable**. One job is listed: **stockLevelStatusCronJob** with job definition **stockLevelStatusJob**, current status **FINISHED**, last result **SUCCESS**, and timetable **seconds: 0 minutes: 0 hours: 0 d...**. Below the table, a section titled **stockLevelStatusJob : stockLevelStatusCronJob - ABORTED - ERROR** provides more details. This section includes tabs for **Log**, **Task**, **Run as**, **Time Schedule**, **System Recovery**, and **Administration**. The **Essential** tab is active, showing fields for **Code** (stockLevelStatusCronJob), **Current status** (FINISHED), **Job definition*** (stockLevelStatusJob), **Last result** (SUCCESS), **Timetable** (seconds: 0minutes: 0hours: 0daysOfMonth: *mo), **Last start time** (Oct 21, 2024 9:15:30 AM), **Enabled*** (True), and **Last end time** (Oct 21, 2024 9:15:30 AM).

Code	Job Definition	Current Status	Last Result	Timetable
stockLevelStatusCronJob	stockLevelStatusJob	FINISHED	SUCCESS	seconds: 0 minutes: 0 hours: 0 d...

stockLevelStatusJob : stockLevelStatusCronJob - ABORTED - ERROR

Essential

Code	Current status	Job definition*	Last result
stockLevelStatusCronJob	FINISHED	stockLevelStatusJob	SUCCESS

Timetable	Last start time	Enabled*	Last end time
seconds: 0minutes: 0hours: 0daysOfMonth: *mo	Oct 21, 2024 9:15:30 AM	True	Oct 21, 2024 9:15:30 AM

2. Email Server to test email – Papercut SMTP is used for local machine email testing

From	"Customer Services Team" <customerservices@hybris.com>
To	"Customer" <satveermca1@gmail.com>
Date	20/10/2024 2:03:11 pm +13:00
Subject	Back In Stock!

Message Headers Body Sections Raw

[My Account](#) | [Store Finder](#)

Back In Stock!

Dear Customer,

The wait is over. DSC-H20 Blue is now available for purchase. The current stock is 12.



DSC-H20 Blue

[SHOP NOW](#)

To manage your notification, go to [My Interests](#) under My Accounts

If we can help you with any inquiry, please use our [Contact Us](#) page, or contact our customer services team directly via phone +44 (0)20 / 7429 4175 or email customerservices@hybris.com.

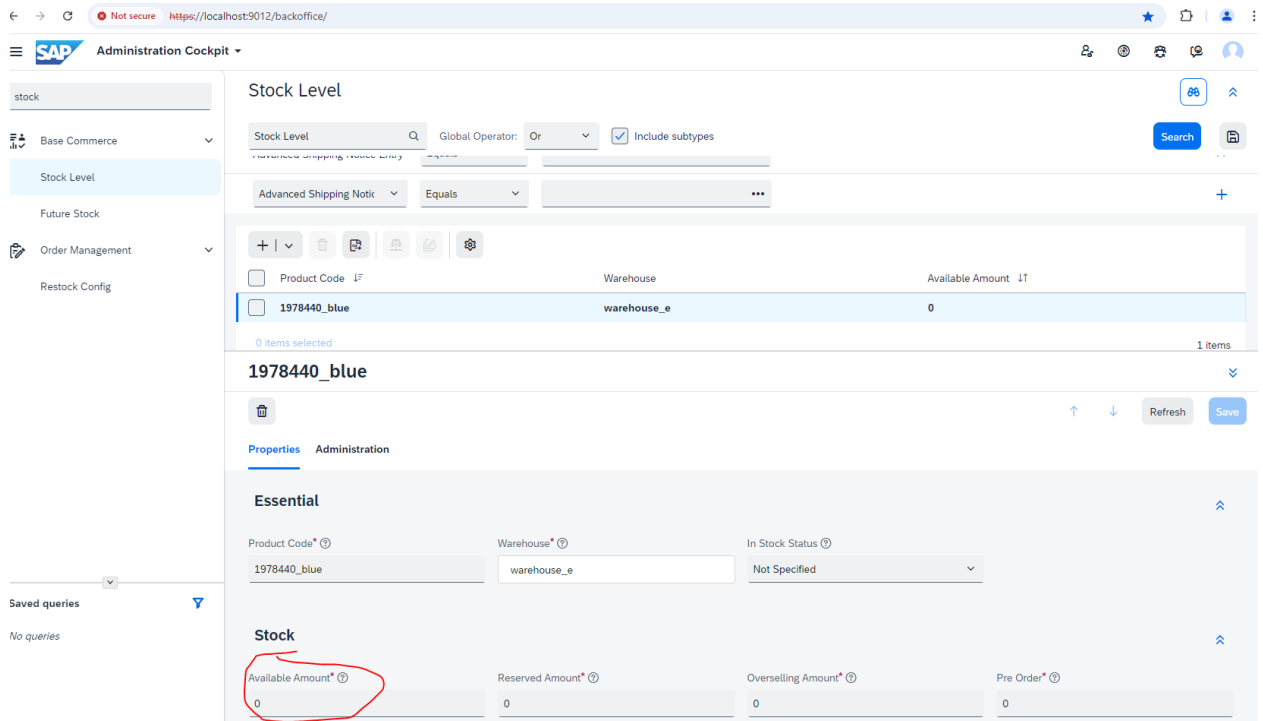
Thank you.

Customer Services



[Help](#) | [Contact Us](#) | [Terms & Conditions](#)

3. Backoffice – bakcoffice is used to update Stock of product as 'InStock' or 'OutOfStock'



The screenshot displays the SAP Administration Cockpit interface for managing stock levels. The left sidebar shows the navigation menu with 'Stock Level' selected under 'Base Commerce'. The main area is titled 'Stock Level' and includes a search bar, filters, and a table of stock levels.

Stock Level Table:

Product Code	Warehouse	Available Amount
1978440_blue	warehouse_e	0

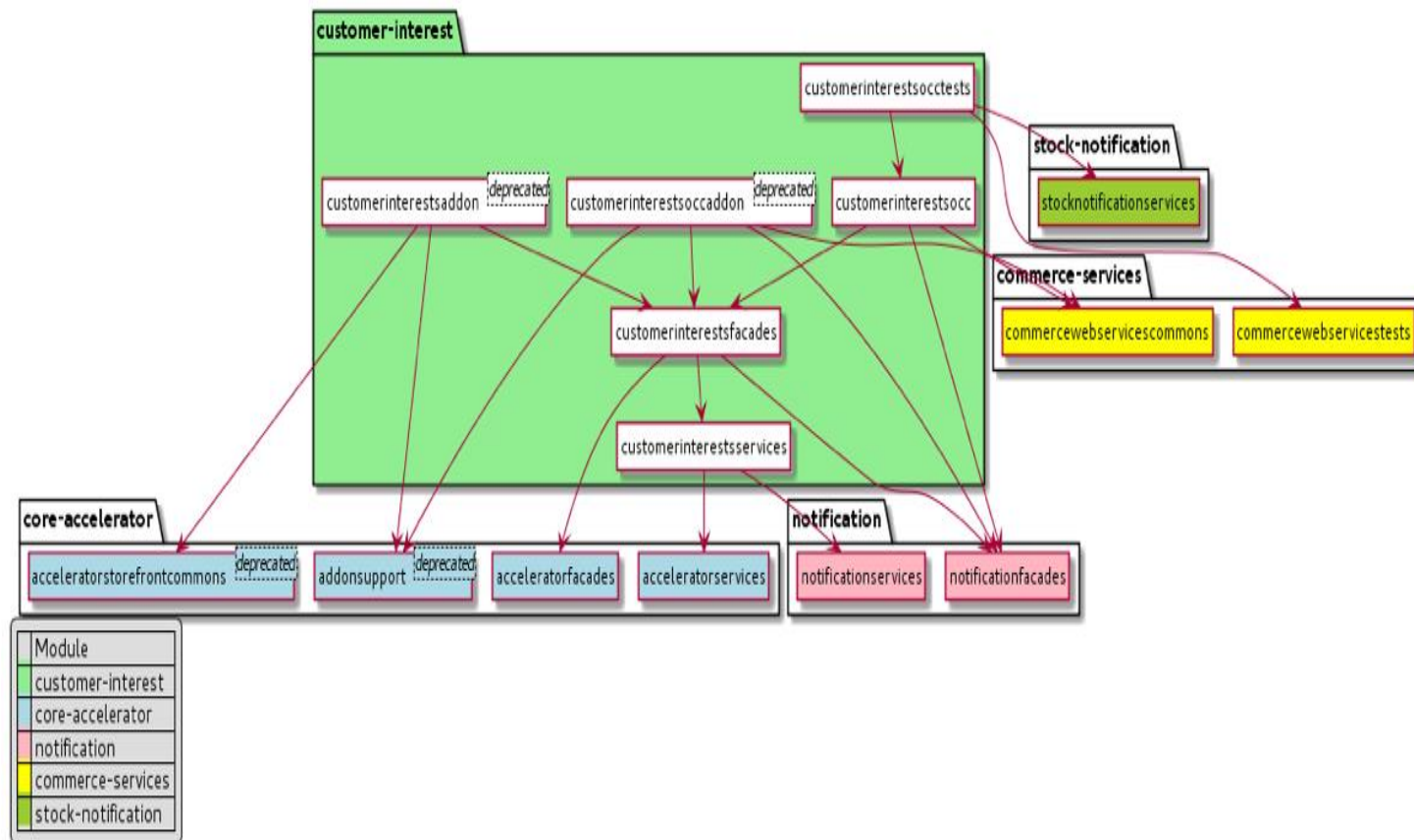
Below the table, the 'Essential' section shows the product details for '1978440_blue' in warehouse 'warehouse_e'. The 'In Stock Status' is set to 'Not Specified'. The 'Stock' section shows the 'Available Amount' as 0, which is circled in red. Other stock-related fields like 'Reserved Amount', 'Overselling Amount', and 'Pre Order' are also visible.

OOTB SAP CC Customer Interests Module

OOTB SAP Commerce cloud Feature Use Case-

A customer shops in the store, he or she wants to register an interest for a specific product so that he or she can receive notifications on this product, such as price-cut notifications, back-in-stock notifications, and so on. Later on, the customer manages the interest either in the My Interests or on the product details page.

OOTB SAP Commerce cloud Customer Interests Architecture -

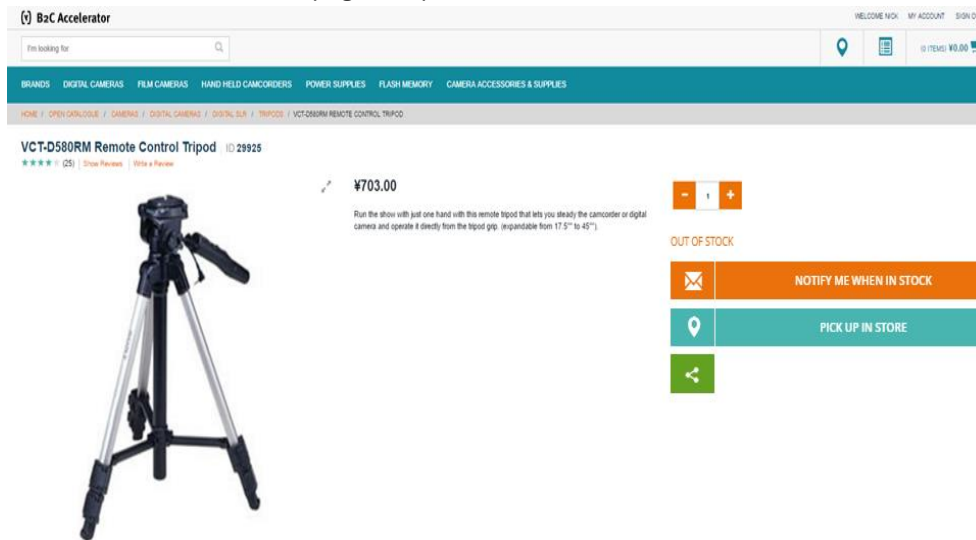


OOTB Customer Interests - is implemented only for logged in or authenticated users without providing email id as input. Logged in users can go to PDP Page and -

https://help.sap.com/docs/SAP_COMMERCE_CLOUD_PUBLIC_CLOUD/7e47d40a176d48ba914b50957d003804/de4fc6fdff894e76a06c6bc8f4261599.html

Registering Interests for Stock Notifications Procedure –

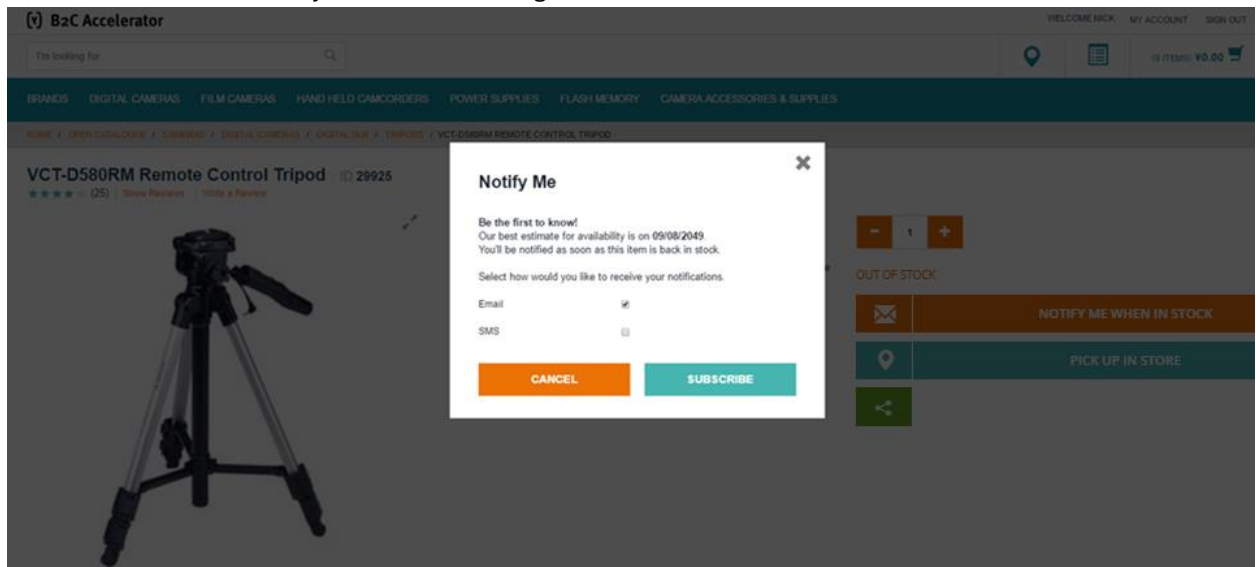
- Go to the **Product Details** page of a product.



The **NOTIFY**

ME WHEN IN STOCK banner displays if the product is out of stock.

- Click **NOTIFY ME WHEN IN STOCK** to continue. The **Notify Me** pop-up page displays, with email and SMS listed as channels for receiving back-in-stock notifications. The email address and mobile number are retrieved from your account settings.



- The email address and mobile number are retrieved from your account settings.
- Select the notification channels by checking corresponding check boxes. By default, the channels set in the **Notification Channel Preference** page are automatically associated. For more information, refer to [Setting Notification Preference](#) to learn how to set the preference channels for receiving notifications.
- Click **SUBSCRIBE** to save the settings.

Upon success, the status of the product changes to **DO NOT NOTIFY ME.**

B2c Accelerator

I'm looking for


WELCOME NICK | MY ACCOUNT | SIGN OUT

BRANDS DIGITAL CAMERAS FILM CAMERAS HAND HELD CAMCORDERS POWER SUPPLIES FLASH MEMORY CAMERA ACCESSORIES & SUPPLIES

HOME / OPEN CATALOGUE / CAMERAS / DIGITAL CAMERAS / DIGITAL SLR / TRIPDS / VCT-D580RM REMOTE CONTROL TRIPOD

VCT-D580RM Remote Control Tripod ID 29925

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Run the show with just one hand with this remote tripod that lets you steady the camcorder or digital camera and operate it directly from the tripod grip. (expandable from 17.5" to 45")

OUT OF STOCK

You have already subscribed to receive notification as soon as this item is back in stock.

☒ DO NOT NOTIFY ME

☐ PICK UP IN STORE

☐