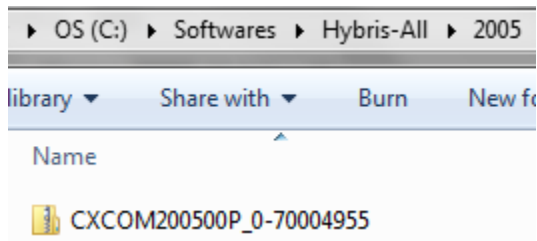


SAP Commerce = eComm Solution (or) eComm Software.

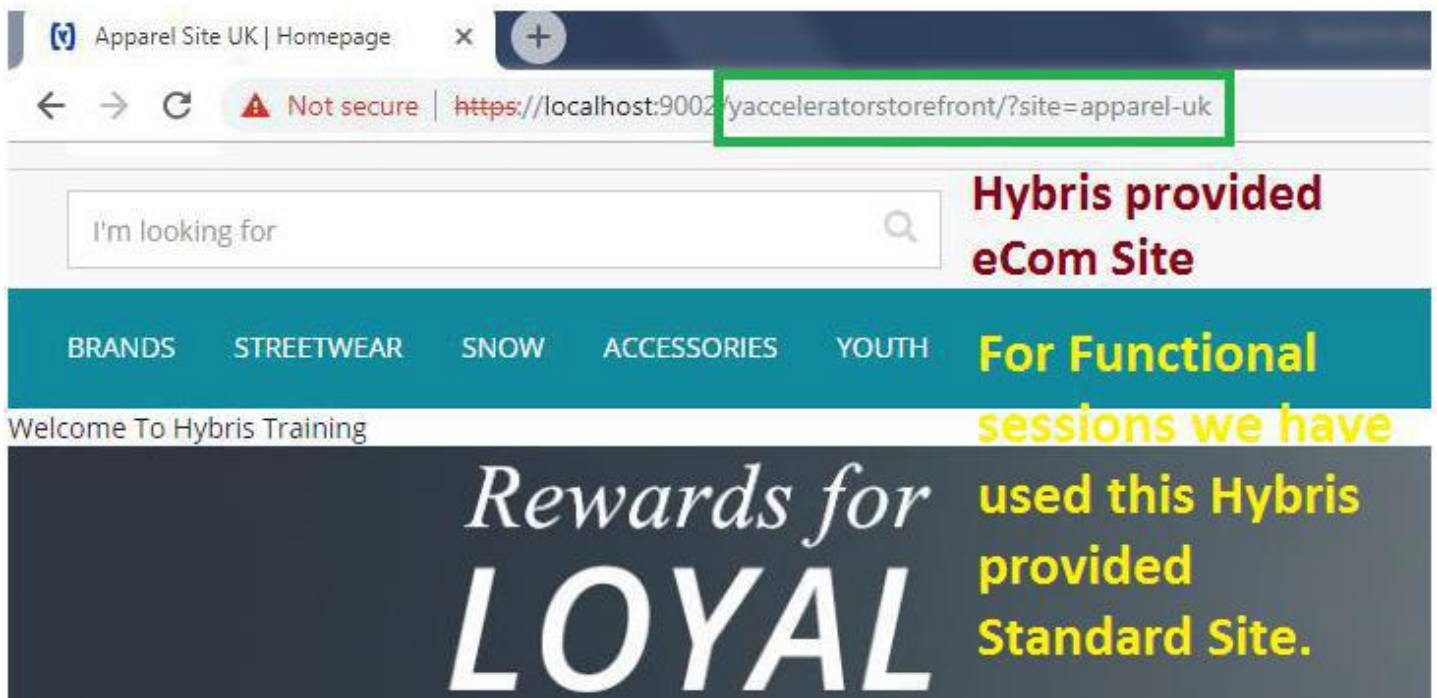
By using SAP Comm – We can develop something like “Croma ... Amazon ... Reliancedigital and ...”.

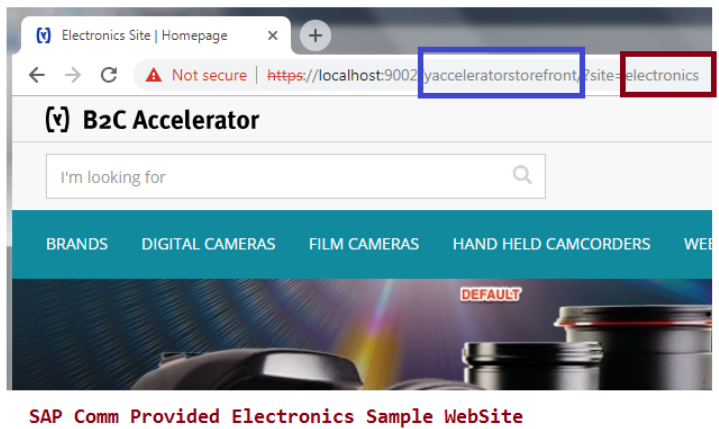
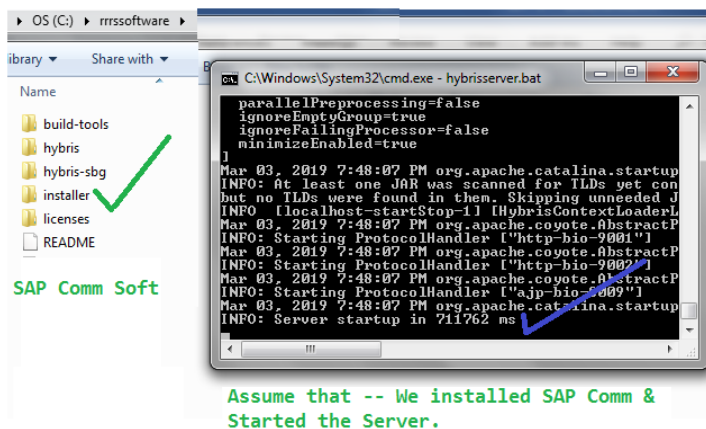
Note = SAP Comm is delivered for us as **Suite / ZIP** file.

After downloading SAP comm software, you can see like below:

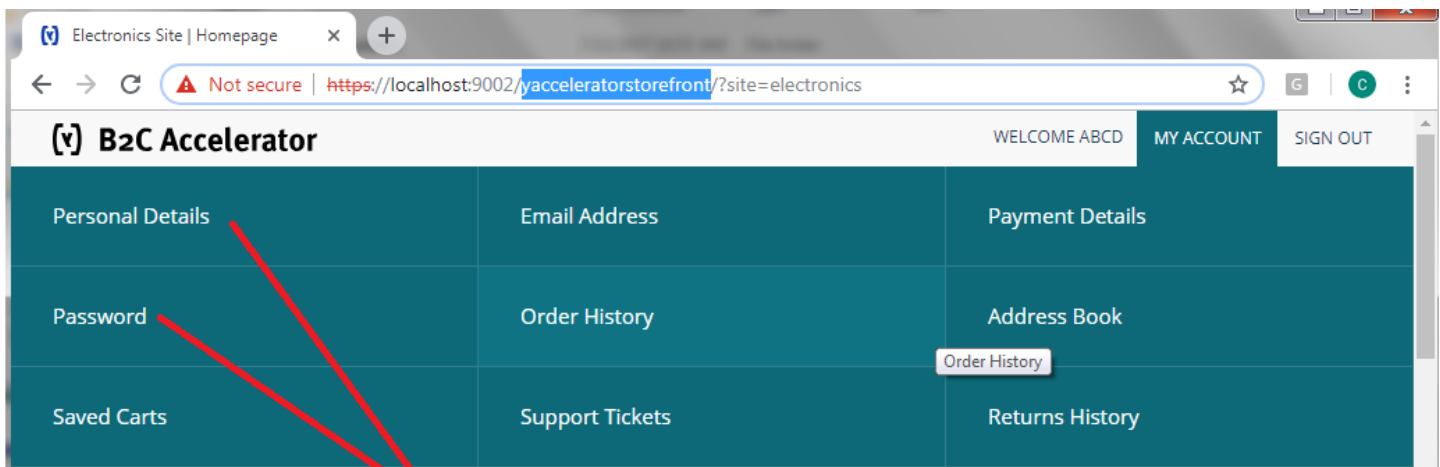


Note: = After installing above SAP Comm provided **recipes** [templates] ... we can get eComm Sample Site as below: -





Business Requirement =



Req -- Your Company is asking you to Put these 2 into 1 page.
So -- we need to modify "yacceleratorstorefront" Exts.

Thumb Rule = Generally **we don't modify** anything which is available inside the **bin\modules** directory. Bin\modules & Bin\platform is for "SAP Comm" **platform** purpose.

Q = What happens if we modify something which is there inside **bin\modules (or) bin\platform** folder? =

It will work (no problem). But when we do the upgrade, your changes will be lost (**Upgrade is difficult**).

Conclusion = Even if there is **1 line of code** change, don't modify anything directly inside the SAP Commerce provided Exts (**Predefined Exts**).

Intead of modifying directly ... we can create our **own Exts copy**.

Q = Are we going to do the client specific changes (customizations) directly inside SAP Comm provided Exts (or) Predefined Exts? = No

.

Q = Why generally we don't modify **predefined Exts**?

1) Upgrade is difficult

2) Even if we have 1 line code change also, don't modify directly in predefined Exts.

Note = So, you need to create a copy of these predefined Exts & do client specific changes.

That means – We need to create our own site.

Note =

SAP Comm Sample Site=

<https://localhost:9002/yacceleratorstorefront/?site=apparel-uk>

Client Custom Site =

<https://localhost:9002/chennarrstrainingstorefront/?site=apparel-uk>

Croma Company =

<https://localhost:9002/cromastorefront/?site=apparel-uk>

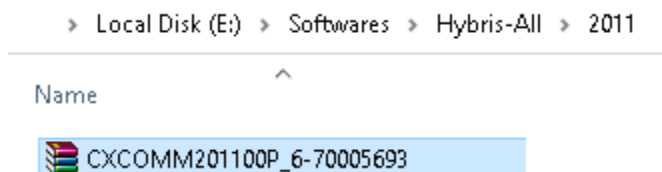
Q1 = How to create copy of eCom Site (Copy of >=1 Ext)?

= **ant modulegen**

Q2 = How to create copy of only 1 Ext = ant extgen

Steps for “Creating Custom B2C eComm Site”?

Step 1 = Download SAP Commerce Software

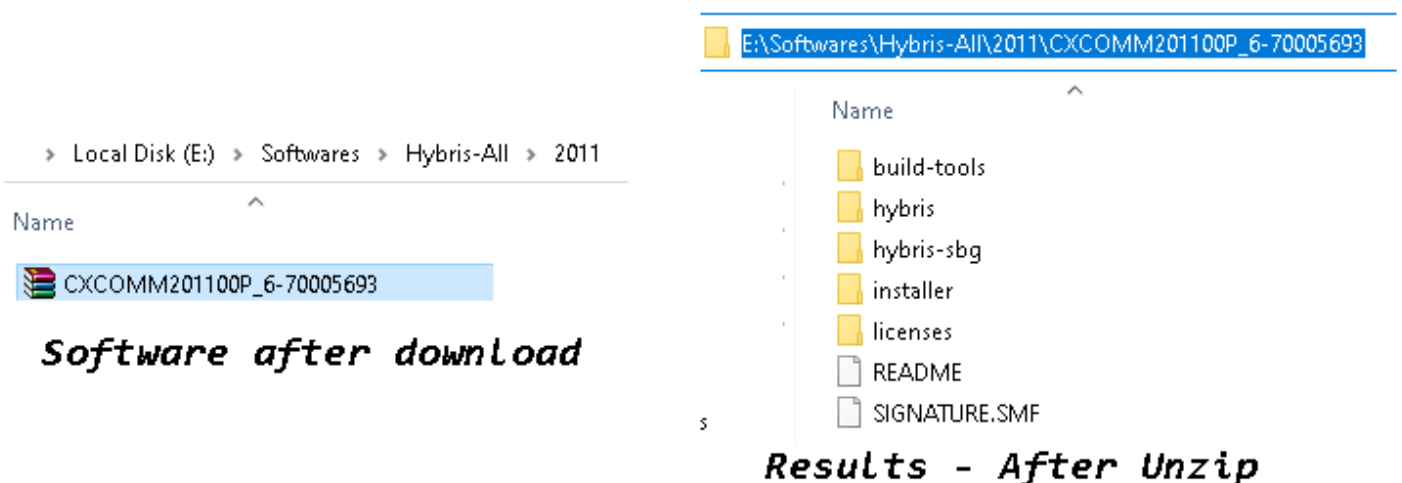


Step 2 = Unzip “SAP Comm” Software

For Unzip – Use tools like “**7-ZIP** / WinZip / ...”.

7-ZIP Software download Link =

<https://www.7-zip.org/download.html>

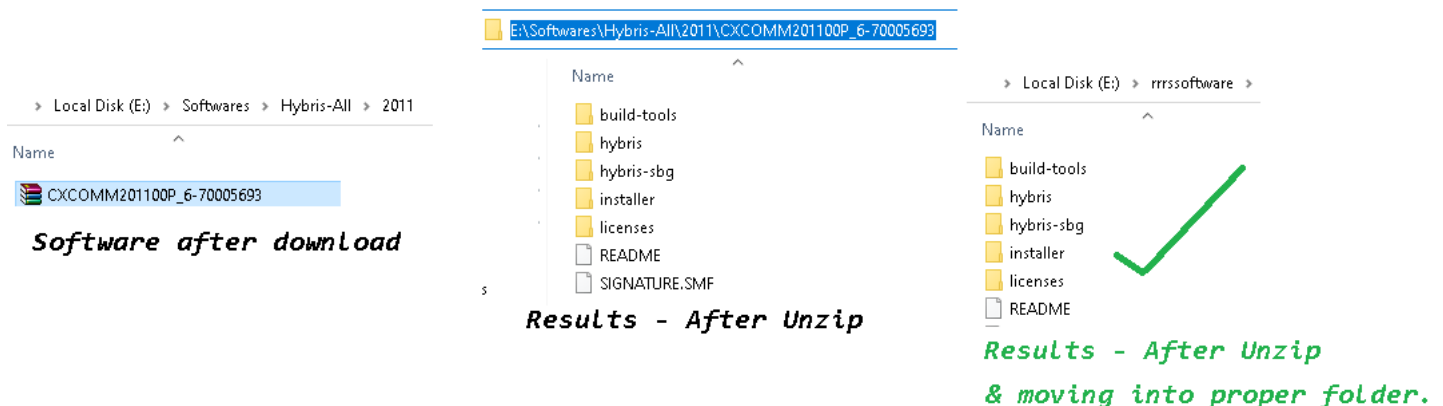


Now -- SAP Comm Path (or) SAP Comm Loc =

E:\Softwares\Hybris-All\2011\CXCOMM201100P_6-70005693

Here we can see there are “_ / - / spaces / ...”.

Best practice = Try to avoid “_ / - / spaces” in SAP Comm Loc / Path.



Now – SAP Comm Path (or) Loc = **E:\rrrssoftware**

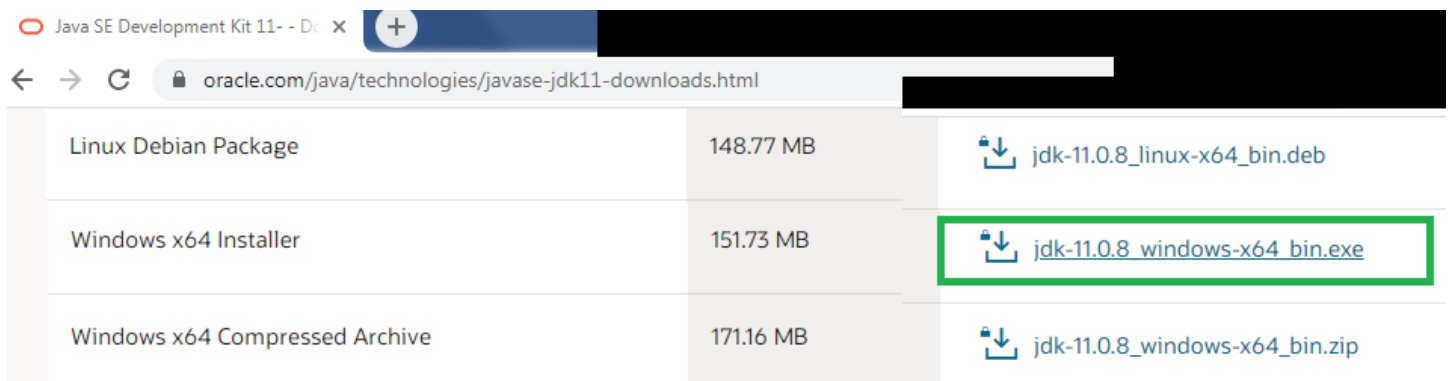
Step 3 = Install Java & Set the Path

1905 / 2005 / **2011** = Requires **JDK 11** (or) SAP Machine 11.

6.X / 1808 / 1811 = Requires **Java 8**

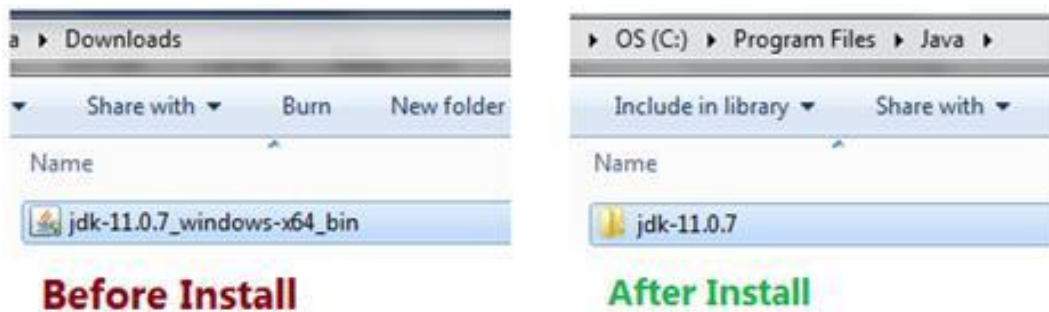
Java download Software Link =

<https://www.oracle.com/java/technologies/javase-jdk11-downloads.html>



After download, install JDK 11 by double click on “**jdk-11.0.8_windows-x64_bin.exe**”

After installation – You can see: -



Your Java Location = **C:\Program Files\Java\jdk-11.0.7**

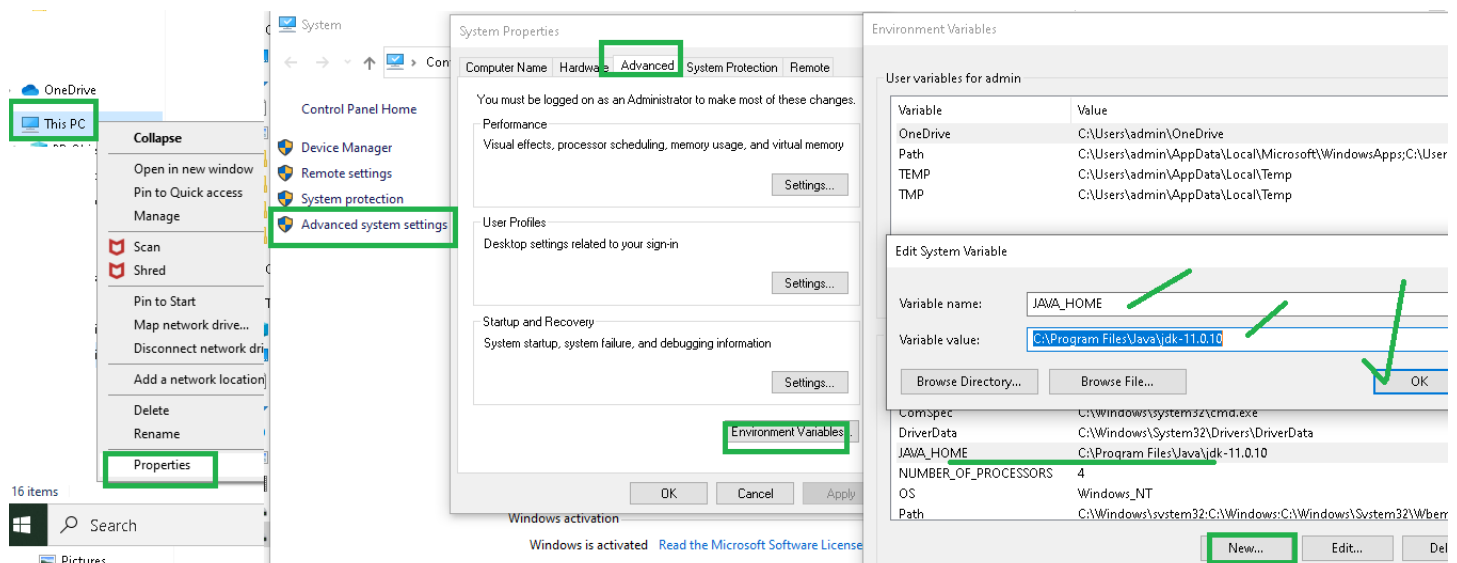
JAVA_HOME = C:\Program Files\Java\jdk-11.0.7

Set the “**JAVA_HOME**” in Environment Variables =

RMB on "This PC" → Properties → Advanced System Settings → Advanced → Environment Variables → New [System Variables]

Variant Name = JAVA_HOME

Variable Value = C:\Program Files\Java\jdk-11.0.7

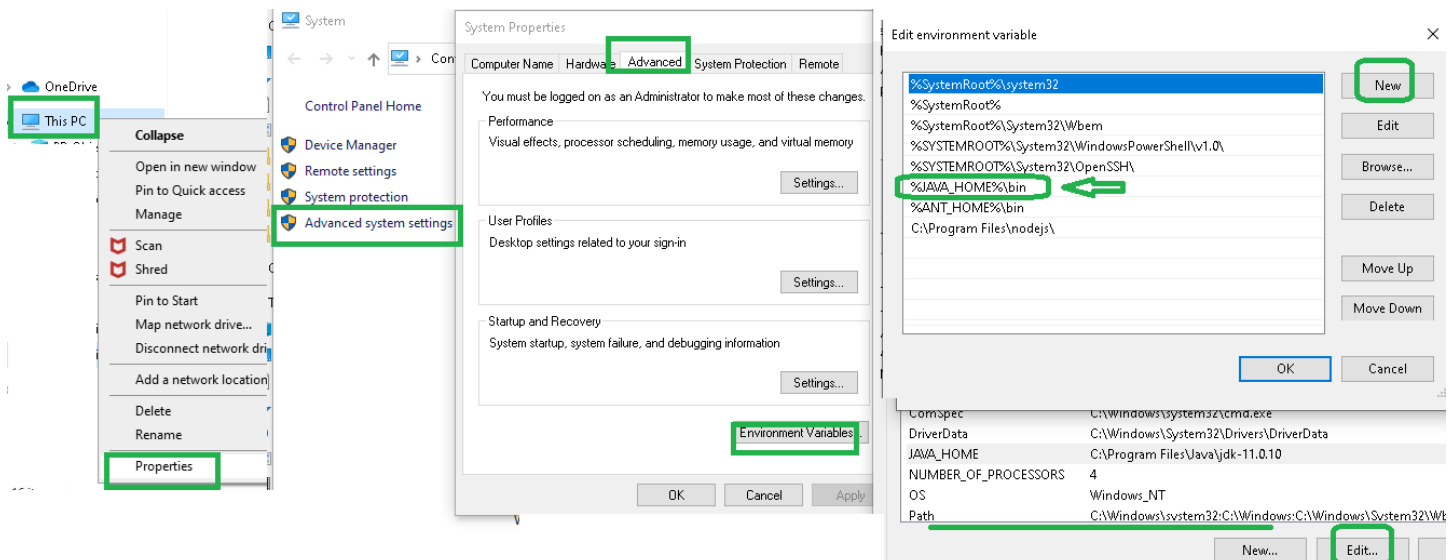


Set the "Path" in Environment Variables =

RMB on "This PC" → Properties → Advanced System Settings → Advanced → Environment Variables → Select Path [Edit]

Now – Edit Path & Just add JAVA_HOME [Do not delete previous path] like below: -

path = %JAVA_HOME%\bin



Q = How to verify Java version is set correctly (or) not?

Open Command window & type "java -version"

```
C:\Windows\system32\cmd.exe

C:\Users\GETR-S...>java -version
java version "11.0.7" 2020-04-14 LTS
Java(TM) SE Runtime Environment 18.9 <build 11.0.7+8-LTS>
Java HotSpot(TM) 64-Bit Server VM 18.9 <build 11.0.7+8-LTS, mixed mode>
```

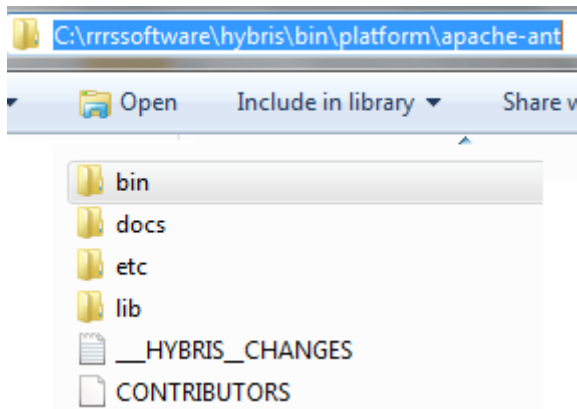

Step 4 = Set the ANT Path?

For build purpose – we use the “**Ant tool** / Maven tool / ...”.

ANT is already part of “**SAP Commerce**” package.

ANT no need to download separately.

Q = Where can we see the “ANT Tool”?

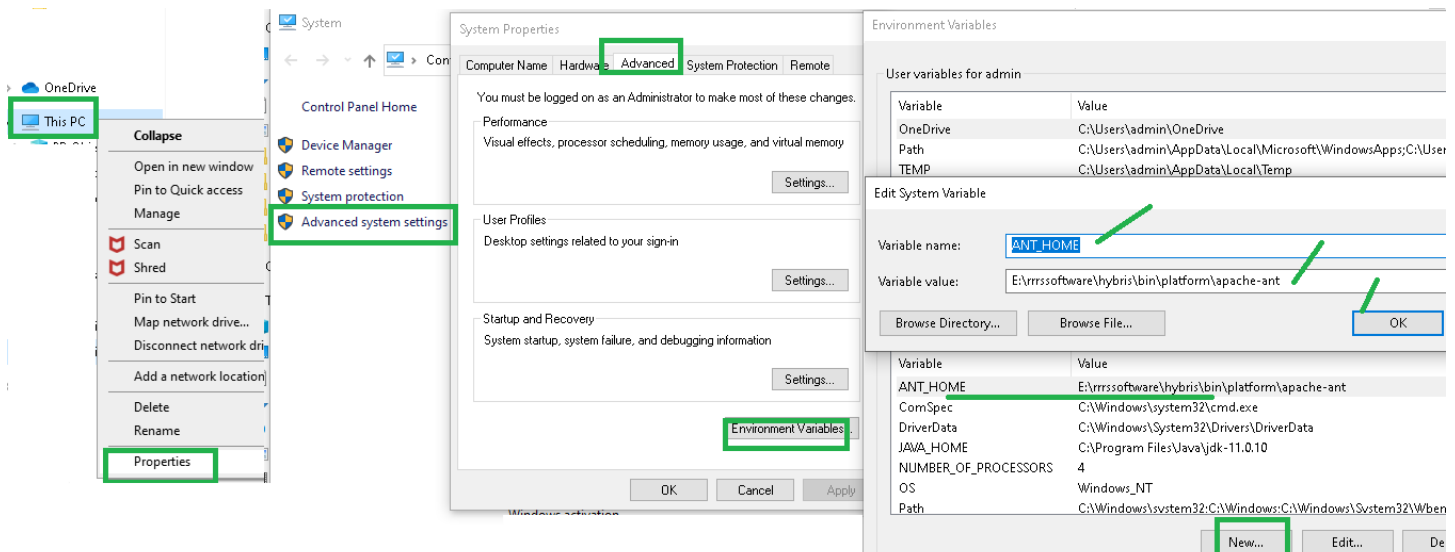


RMB on “This PC” → Properties → Advanced System settings → Advanced → Environment Variables → New [System Variables]

Variable name = ANT_HOME

Variable Value = E:\rrrssoftware\hybris\bin\platform\apache-ant

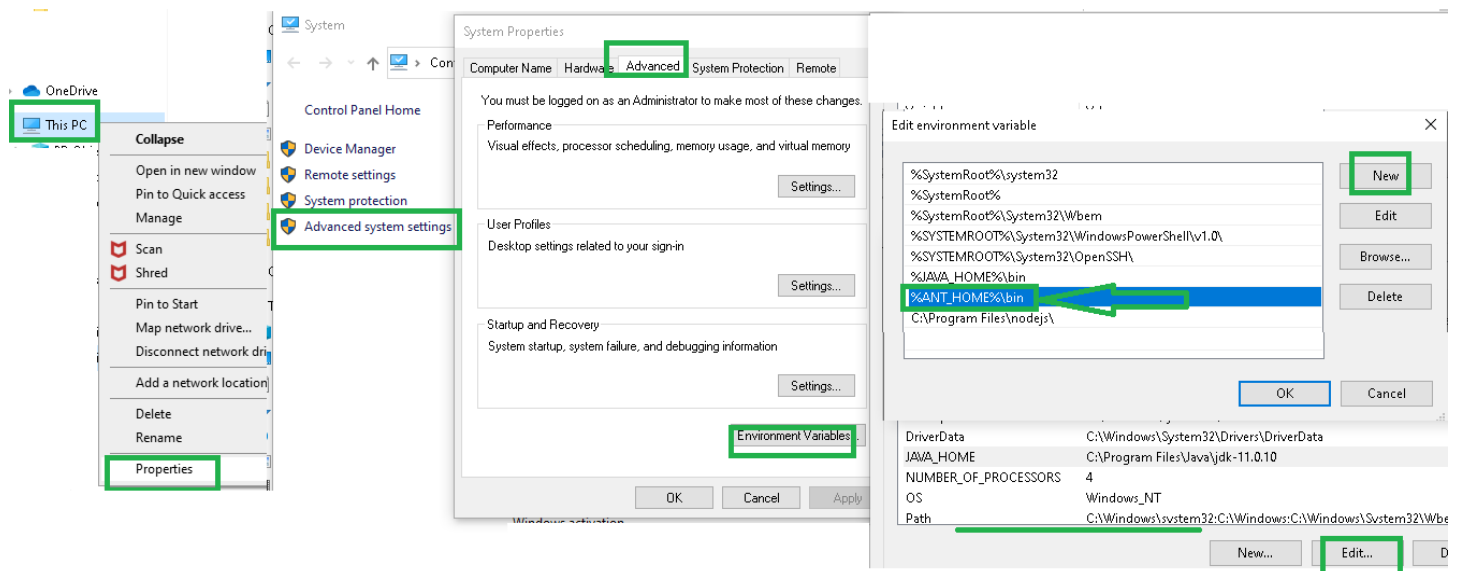
ANT_HOME = C:\rrrssoftware\hybris\bin\platform\apache-ant



Path = RMB – This PC → Properties → Advanced system settings → Advanced → Environment Variables → Path [Select] → Edit

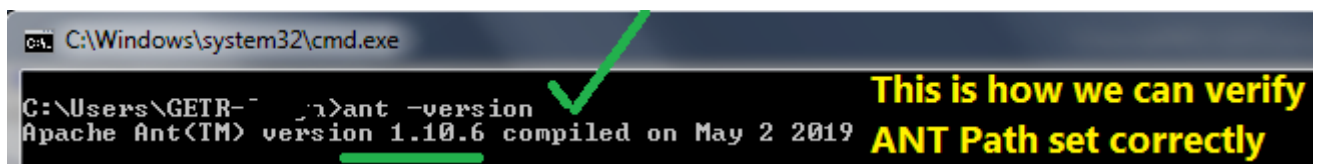
Now – Edit Path & Just add **ANT_HOME** [Do not delete previous path] like below: -

Path = %ANT_HOME%\bin



Q = How to verify ANT path is set correctly (or) not?

Open Command window & type “**ant -version**”



Step 5 = Set the “admin” user password

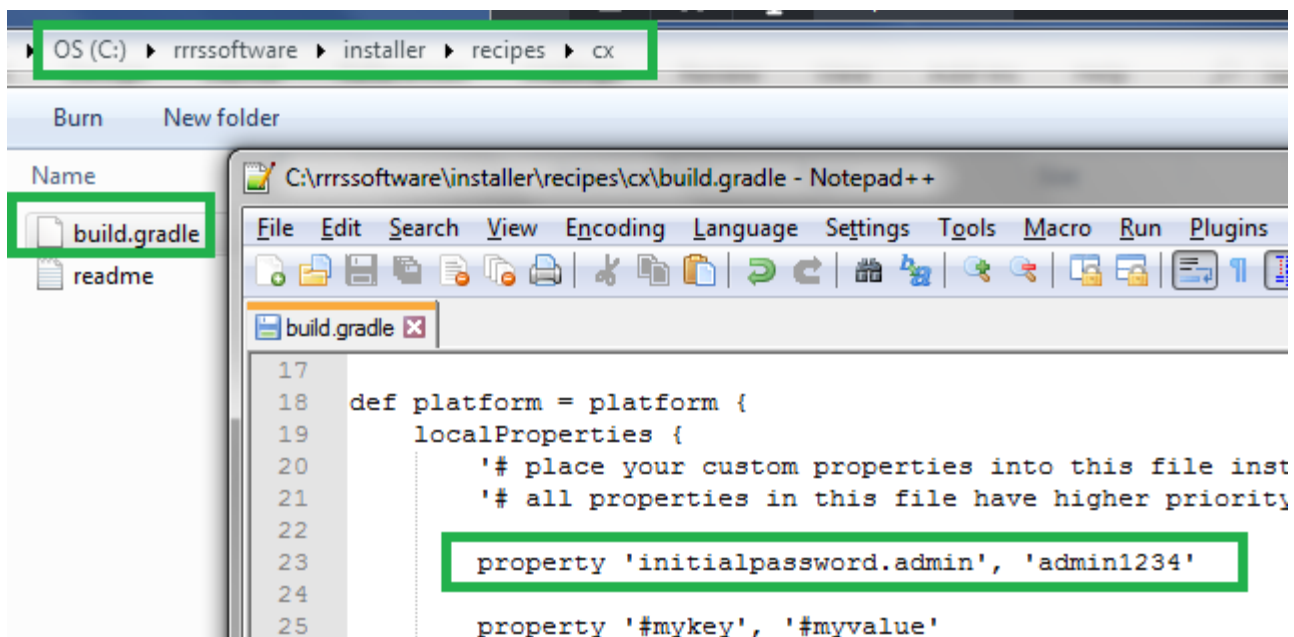
If we take old version [“5.X / 6.X / 1808 / 1811”] == Default password for “admin” user is = “nimda”.

But, for security reasons in latest we need to set admin user pwd.

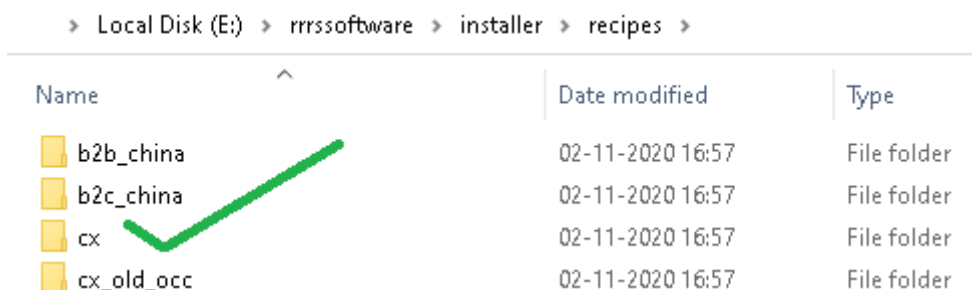
Last version [1905 / 2005 / 2011] = Comes with **no default password** for the Administration users.

So, we need to set the password before “**build / initialize**” the system 1st time.

Q = How to set the default password for admin users?

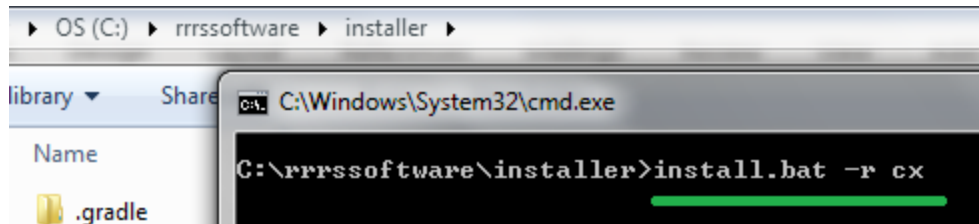


Step 6 = Install “SAP Comm” Software (or) Recipe

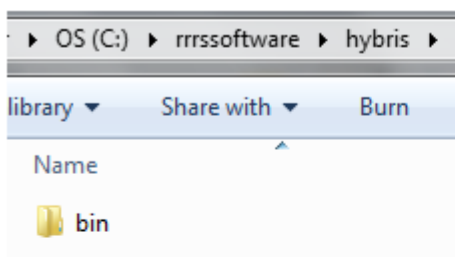


[Windows System] Syntax = C:\rrrssoftware\installer>**install.bat -r cx**

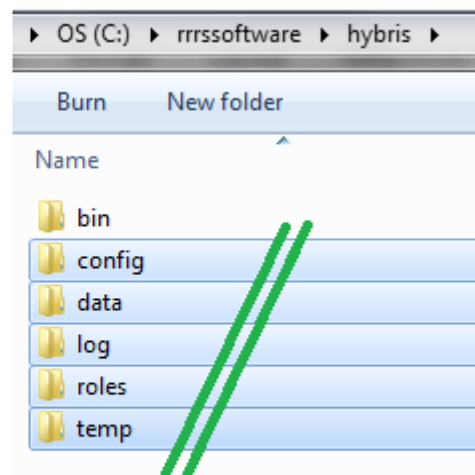
[Mac System] Syntax = C:\rrrssoftware\installer>**install.sh -r cx**



=====>



*Before "SAP Comm"
Installation.*



*After "SAP Comm"
Installation.*

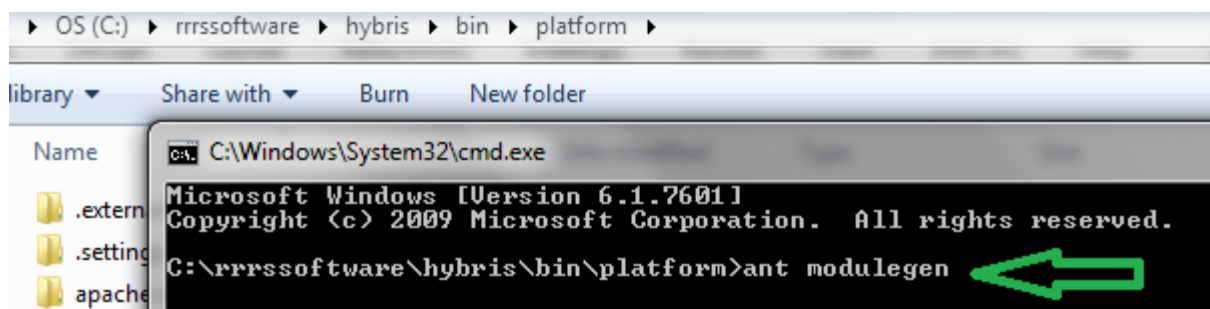
Step 7 = Create **B2C Custom** eComm Site

In “Step 6” – We created **standard** eComm site (or) **OOTB** eComm site.

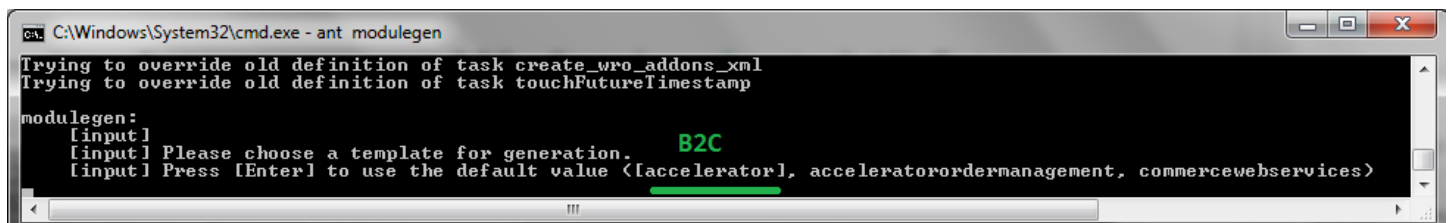
But – We want “**Custom**” eComm site based on “Standard eComm (or) OOTB eComm Site” (or) On top of OOTB eComm Site.

Now – It’s time do “Creation of **custom b2c** eComm Site?”

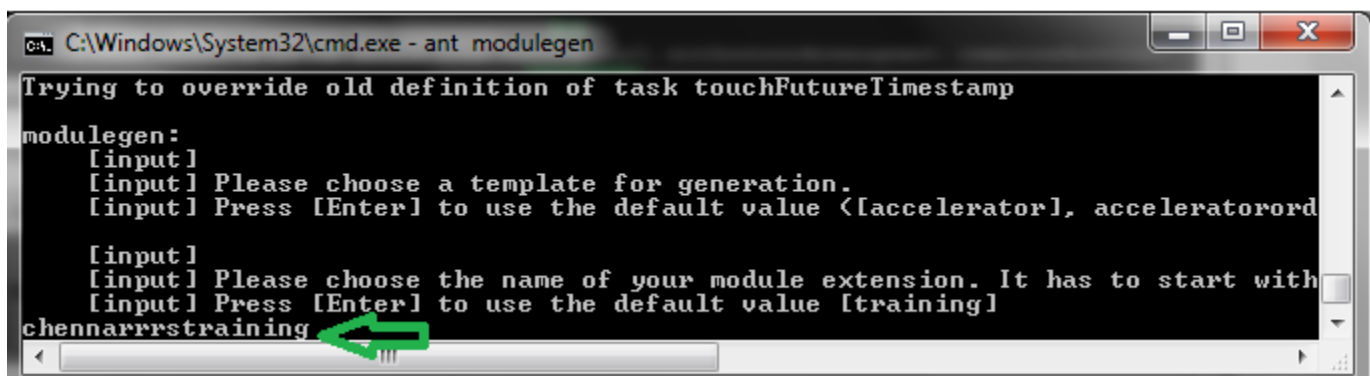
7.1 = C:\rrrssoftware\hybris\bin\platform>**ant modulegen**



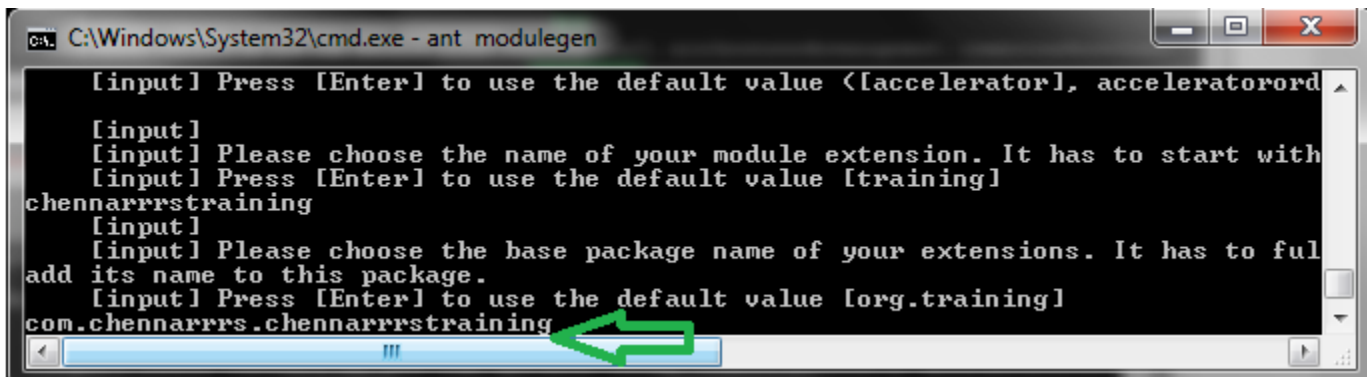
7.2 = Choose Template = [**accelerator**]



7.3 = Choose Module Extension Name = **chennarrstraining**



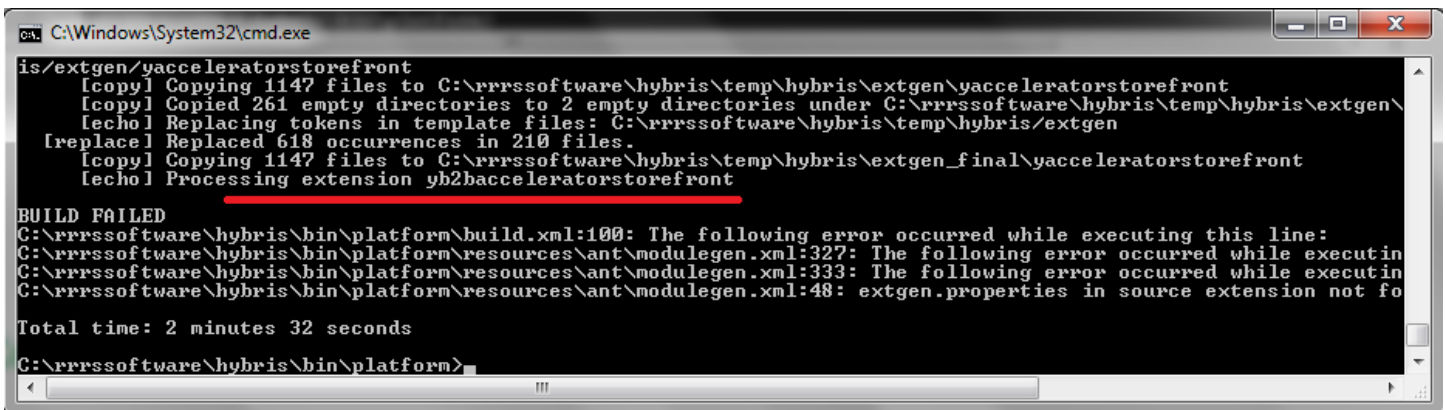
7.4 = Enter Package Name = **com.chennarrs.chennarrstraining**



```
C:\Windows\System32\cmd.exe - ant modulegen

[input] Press [Enter] to use the default value <[accelerator], acceleratorord
[input]
[input] Please choose the name of your module extension. It has to start with
[input] Press [Enter] to use the default value [training]
chennarrstraining
[input]
[input] Please choose the base package name of your extensions. It has to ful
add its name to this package.
[input] Press [Enter] to use the default value [org.training]
com.chennarrs.chennarrstraining
```

Note = After 7.4 ... If we get below error – How to fix?



```
C:\Windows\System32\cmd.exe

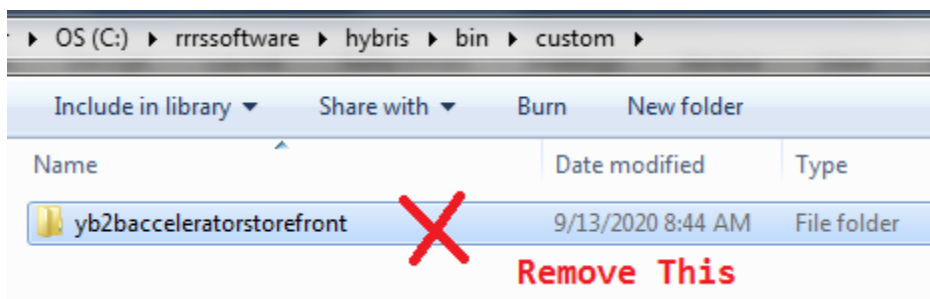
is/extgen/yacceleratorstorefront
[copy] Copying 1147 files to C:\rrrssoftware\hybris\temp\hybris\extgen\yacceleratorstorefront
[copy] Copied 261 empty directories to 2 empty directories under C:\rrrssoftware\hybris\temp\hybris\extgen\
[echo] Replacing tokens in template files: C:\rrrssoftware\hybris\temp\hybris\extgen
[replace] Replaced 618 occurrences in 210 files.
[copy] Copying 1147 files to C:\rrrssoftware\hybris\temp\hybris\extgen_final\yacceleratorstorefront
[echo] Processing extension yb2bacceleratorstorefront

BUILD FAILED
C:\rrrssoftware\hybris\bin\platform\build.xml:100: The following error occurred while executing this line:
C:\rrrssoftware\hybris\bin\platform\resources\ant\modulegen.xml:327: The following error occurred while executin
C:\rrrssoftware\hybris\bin\platform\resources\ant\modulegen.xml:333: The following error occurred while executin
C:\rrrssoftware\hybris\bin\platform\resources\ant\modulegen.xml:48: extgen.properties in source extension not fo

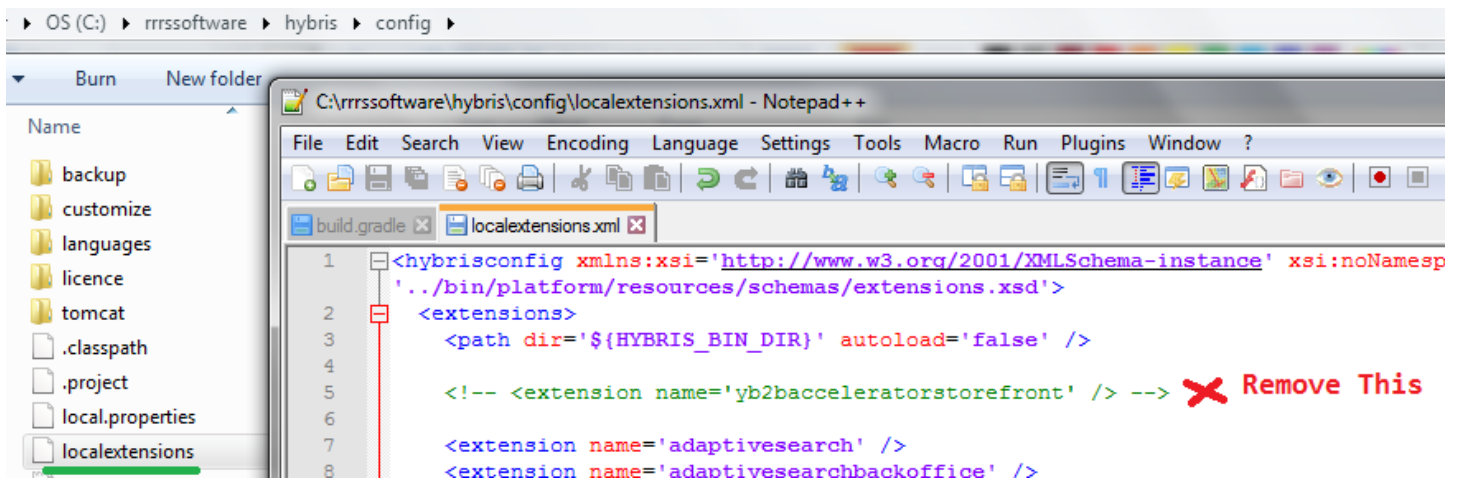
Total time: 2 minutes 32 seconds
C:\rrrssoftware\hybris\bin\platform>
```

Solution =

1st – Remove below extension from “C:\rrrssoftware\hybris\bin\custom”



Next – Remove “yb2bacceleratorstorefront” extension from
“C:\rrrssoftware\hybris\config\localextensions.xml”



Now – Repeat Step 7 [7.1 – 7.4] ...

Finally, we get below Successful Results with Next Steps

```

C:\Windows\System32\cmd.exe

[echo]
[echo]
[echo]      Next steps:
[echo]
[echo] 1) Add your extension to your C:\rrrssoftware\hybris\config\localextensions.xml
[echo]
[echo] <extension dir="C:\rrrssoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingcore">
[echo] <extension dir="C:\rrrssoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingbackoffice">
[echo] <extension dir="C:\rrrssoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingfacades">
[echo] <extension dir="C:\rrrssoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingfulfilmentpro
[echo] <extension dir="C:\rrrssoftware\hybris\bin\custom\chennarrstraining\chennarrstraininginitialdata"
[echo] <extension dir="C:\rrrssoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingtest">
[echo] <extension dir="C:\rrrssoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingstorefront">
[echo]
[echo] 2) Remove the following extensions from your C:\rrrssoftware\hybris\config\localextensions.xml
[echo]      yacceleratorcore,yacceleratorbackoffice,yacceleratorfacades,yacceleratorfulfilmentproces
test,yacceleratorstorefront
[echo]
[echo] 3) Make sure the applicationserver is stopped before you build the extension the first time.
[echo]
[echo] 4) Perform 'ant' in your hybris/platform directory.
[echo]
[echo] 5) Restart the applicationserver
[echo]
[echo]
BUILD SUCCESSFUL
Total time: 1 minute 52 seconds
C:\rrrssoftware\hybris\bin\platform>

```

Results

: > Local Disk (E:) > rrrsoftware1 > hybris > bin > custom >

Name

Date modified

Type

Size

Nothing before "ant modulegen"

> Local Disk (E:) > rrrsoftware > hybris > bin > custom >

Name

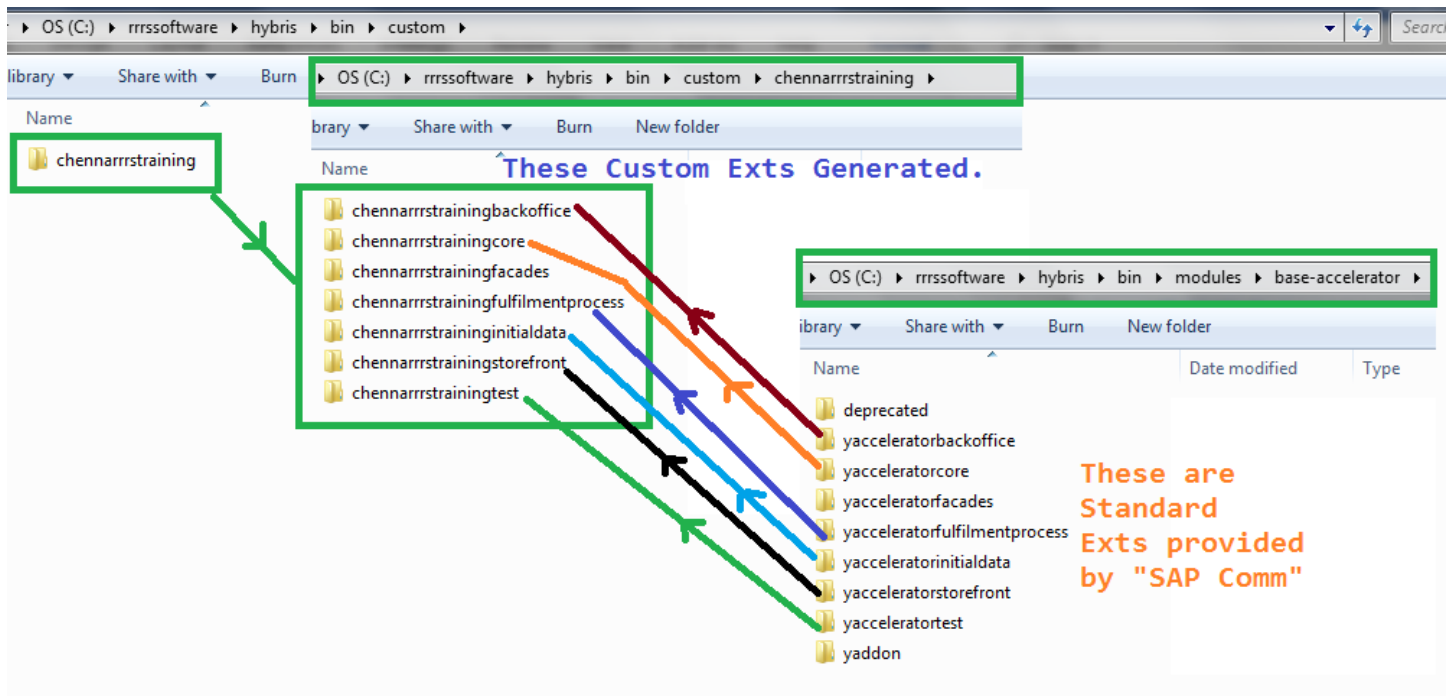
Date modified

chennarrstraining

26-05-2021 20:24

After "ant modulegen"

Contact Us = ChennaReddyTraining@RRRS.CO.IN



yacceleratorstorefront [Standard Ext] copy = chennarrstrainingstorefront [Custom Ext]

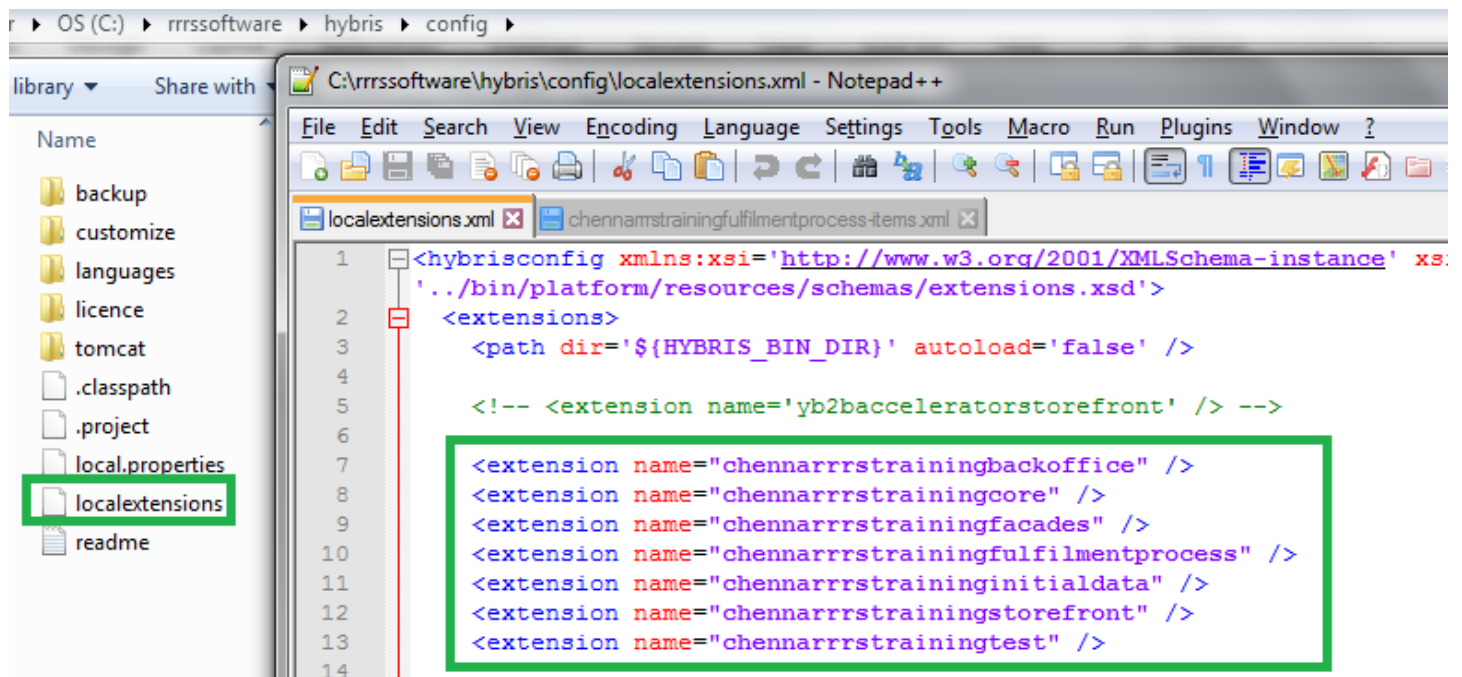
yacceleratorfacades [Standard Ext] copy = chennarrstrainingfacades [Custom Ext]

====

```
C:\Windows\System32\cmd.exe

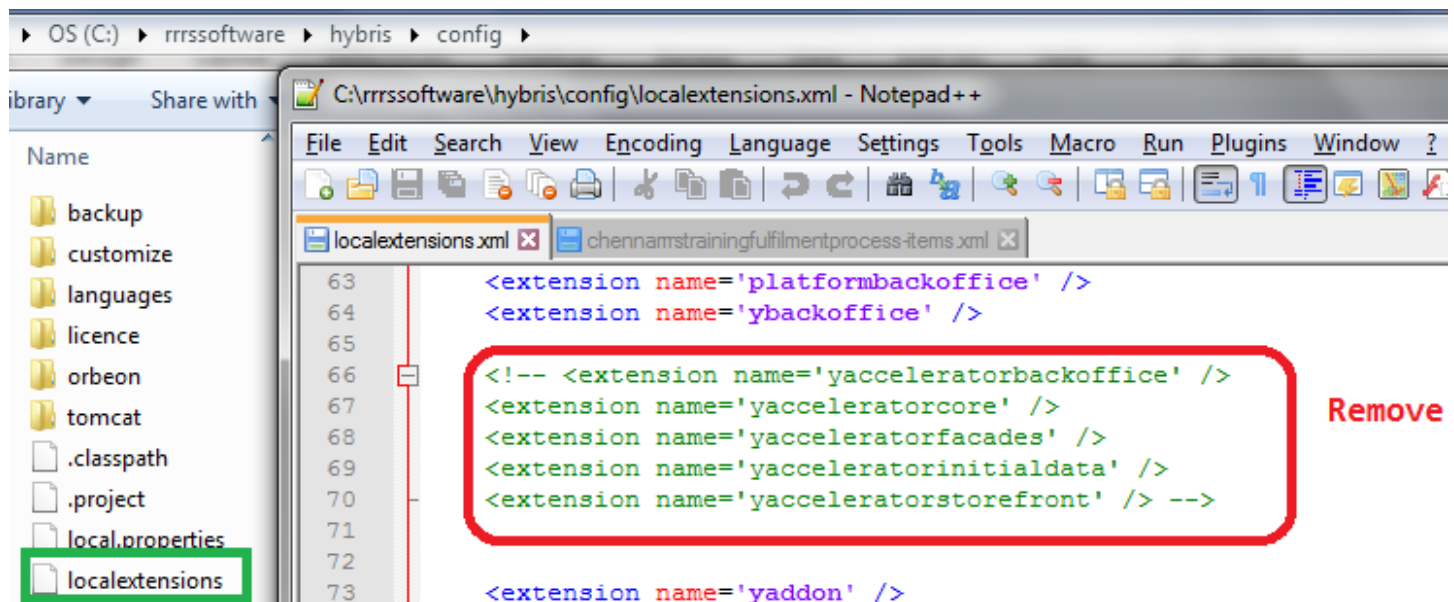
[echo]
[echo]
[echo]      Next steps:
[echo]
[echo] 1) Add your extension to your C:\rrrsoftware\hybris\config\localextensions.xml
[echo]
[echo] <extension dir="C:\rrrsoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingcore">
[echo] <extension dir="C:\rrrsoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingbackoffice">
[echo] <extension dir="C:\rrrsoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingfacades">
[echo] <extension dir="C:\rrrsoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingfulfilmentpro
[echo] <extension dir="C:\rrrsoftware\hybris\bin\custom\chennarrstraining\chennarrstraininginitialdata">
[echo] <extension dir="C:\rrrsoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingtest">
[echo] <extension dir="C:\rrrsoftware\hybris\bin\custom\chennarrstraining\chennarrstrainingstorefront">
[echo]
[echo] 2) Remove the following extensions from your C:\rrrsoftware\hybris\config\localextensions.xml
[echo]      yacceleratorcore,yacceleratorbackoffice,yacceleratorfacades,yacceleratorfulfilmentproces
test,yacceleratorstorefront
[echo]
[echo] 3) Make sure the applicationserver is stopped before you build the extension the first time.
[echo]
[echo] 4) Perform 'ant' in your hybris/platform directory.
[echo]
[echo] 5) Restart the applicationserver
[echo]
[echo]
BUILD SUCCESSFUL
Total time: 1 minute 52 seconds
C:\rrrsoftware\hybris\bin\platform>
```

Step 7.5 = Add generated custom Extensions inside
“C:\rrrssoftware\hybris\config\localextensions.xml”



7.6 = [Next Steps] = Remove Standard Exts from

“C:\rrrssoftware\hybris\config\localextensions.xml”

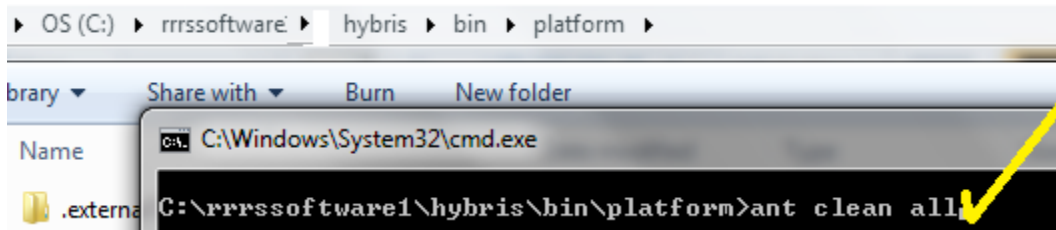


7.7 = [Next Steps] = Stop the Application Server if running

Step 8 = Do the **Build** now

Syntax [1st time] = C:\rrrssoftware\hybris\bin\platform>**ant clean all** (or)

Syntax = C:\rrrssoftware\hybris\bin\platform>**ant all**

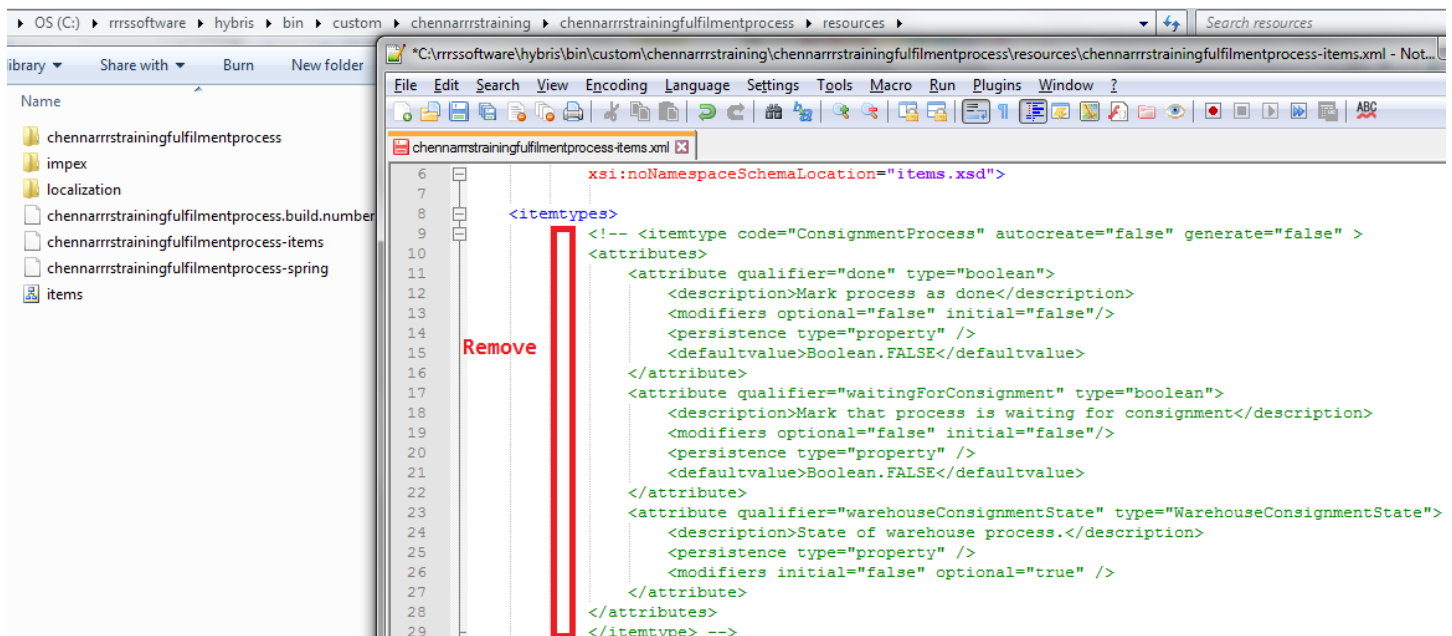
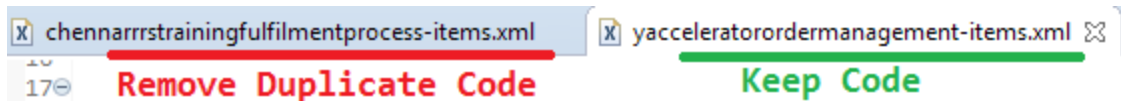


Note = If we get any below error – How to fix?

```
[ycodegenerator] 13:12:41,507 [main] INFO CodeGenerator - Starting code generation ...  
BUILD FAILED  
C:\rrrssoftware\hybris\bin\platform\build.xml:13: The following error occurred while executing this line:  
C:\rrrssoftware\hybris\bin\platform\resources\ant\compiling.xml:73: The following error occurred while executing this line:  
C:\rrrssoftware\hybris\bin\platform\resources\ant\antmacro.xml:584: The following error occurred while executing this line:  
C:\rrrssoftware\hybris\bin\platform\resources\ant\antmacro.xml:587: java.lang.IllegalArgumentException: cannot merge namespace <<yacceleratororderman  
agement>> into <<merged>> due to duplicate attribute 'ConsignmentProcess.done<java.lang.Boolean>::YAttributeDescriptor  
orYacceleratorordermanagement-items.xml:19<AttributeTagListener>IIPROPERTY1' vs 'ConsignmentProcess.done<java.lang.Boolean>::YAttributeDescriptor  
lmentprocess)::YAttributeDescriptor[chennarrstrainingfulfilmentprocess-items.xml:11<AttributeTagListener>IIPROPERTY1'  
    at de.hybris.bootstrap.typesystem.YNamespace.mergeNamespace(YNamespace.java:324)  
    at de.hybris.bootstrap.typesystem.YTypesystem.mergeNamespaces(YTypesystem.java:74)  
    at de.hybris.bootstrap.typesystem.YTypesystem.finalizeTypesystem(YTypesystem.java:65)
```

Solution = Find the duplicate code & removed it.

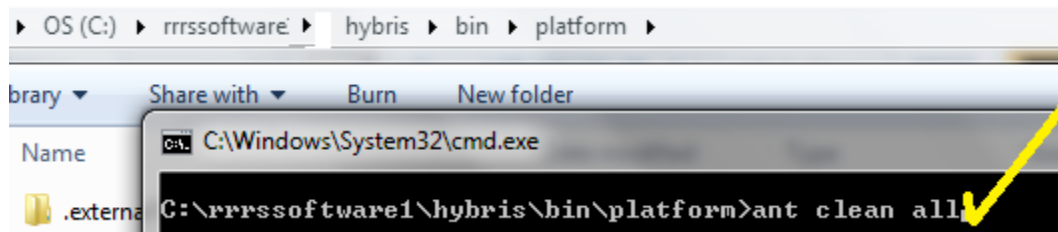
In this case, we can see same code is available in below 2 files.



Step 9 = Do the **Build** now

Syntax [1st time] = C:\rrrssoftware\hybris\bin\platform>**ant clean all** (or)

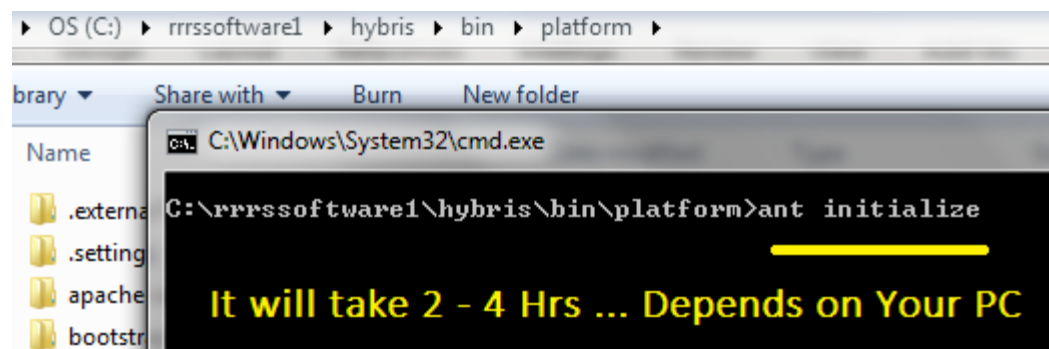
Syntax = C:\rrrssoftware\hybris\bin\platform>**ant all**



Step 10 = After Build Successful [After Step 9] ---

Perform Initialization [INIT]

C:\rrrssoftware\hybris\bin\platform>**ant initialize**



You take any eComm site. There will be common tables.

Example = Order ... Cart ... Product ... User ...

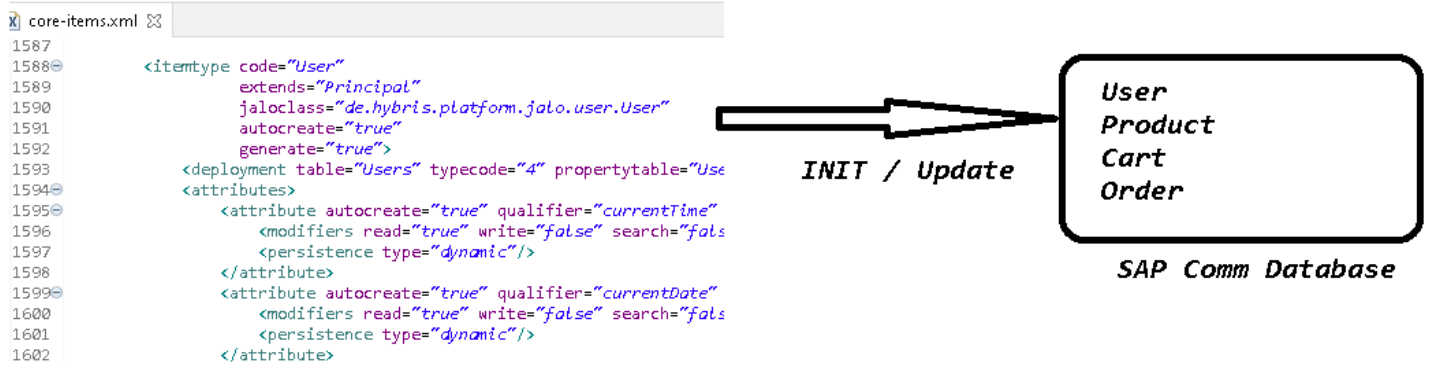
Q = Do we need to create these tables? = **No need**

Then what? =

“SAP Comm” already giving code for these tables = ***-items.xml**

What next? =

We need to execute *-items.xml code.



Note = During the INIT / Update ... required tables [Cart ... Order ... User ... Products ...] will be created based on ***-items.xml**

Q = Where can we see the HSQL DB (or) Tables?

Local Disk (E:) > rrrsoftware > hybris > data > hsqldb >

Name	Date modified	Type	Size
mydb.tmp	27-05-2021 01:19	File folder	
mydb.backup	27-05-2021 01:29	BACKUP File	81 KB
mydb.data	27-05-2021 01:28	DATA File	6,22,592 KB
mydb.lck	27-05-2021 01:19	LCK File	0 KB
mydb	27-05-2021 03:19	Text Document	526 KB

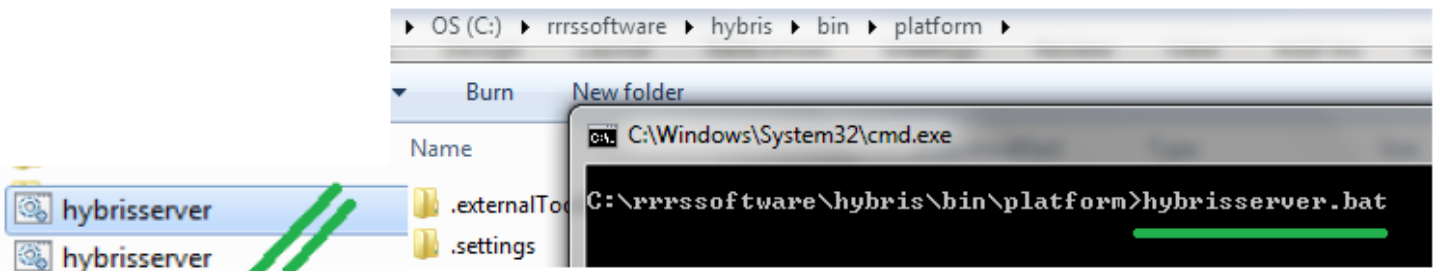
Step 11 = After Initialization [After Step 10] - Start the Hybris Server: -

[**Windows** System] Syntax =

C:\rrrssoftware\hybris\bin\platform>**hybrisserver.bat**

[**Mac** System] Syntax =

C:\rrrssoftware\hybris\bin\platform>**hybrisserver.sh**



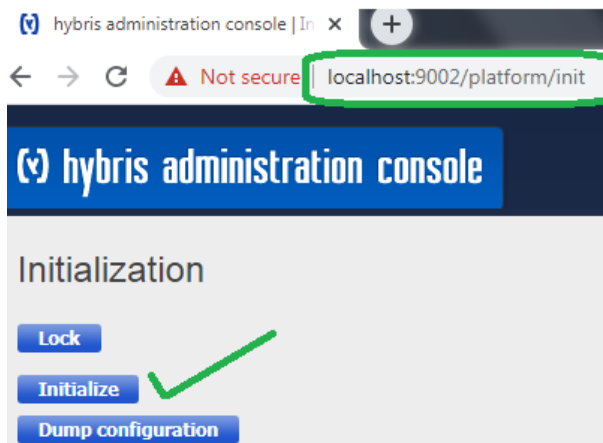
```
C:\Windows\System32\cmd.exe - hybrisserver.bat
Aug 12, 2020 10:03:54 PM org.apache.coyote.AbstractPr
INFO: Starting ProtocolHandler ["https-jsse-nio-9002"]
Aug 12, 2020 10:03:54 PM org.apache.coyote.AbstractPr
INFO: Starting ProtocolHandler ["ajp-nio-127.0.0.1-80
Aug 12, 2020 10:03:54 PM org.apache.catalina.startup.
INFO: Server startup in 632876 ms
```

Step 12 = [Optional] After Server Starts, Do the “Initialization [INIT]” from hAC [1st time only]

Note = If we completed successfully “**Step 10**” then we don’t need to do this Step 11.

Solution 1 = Start Server

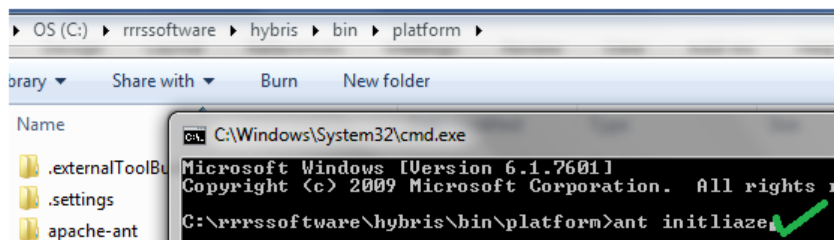
Goto hAC URL = <https://localhost:9002>



Solution 2 = Stop your Server [CTRL + C]

Goto Command Window

C:\rrrssoftware\hybris\bin\platform>ant initialize



Note = INIT generally takes **1 – 3 Hrs** depends on your PC.

We **should not do** below when INIT is happening: -

- 1) Don’t close the browser
- 2) Don’t close the command window
- 3) Make sure your system is not going in sleeping mode

Note = If any above happens then there is a possibility that, you might not get 100% accurate results.

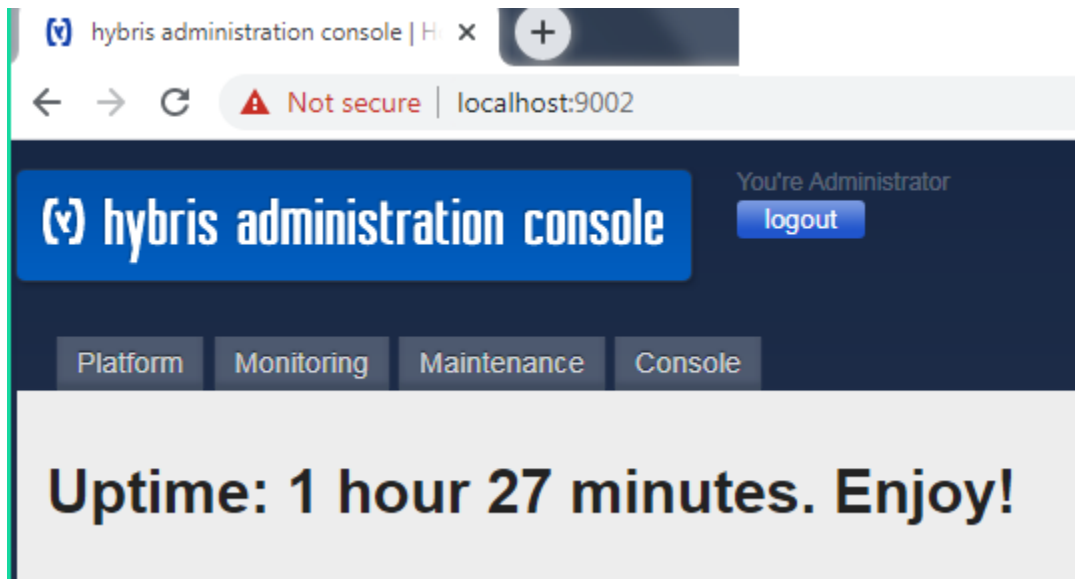
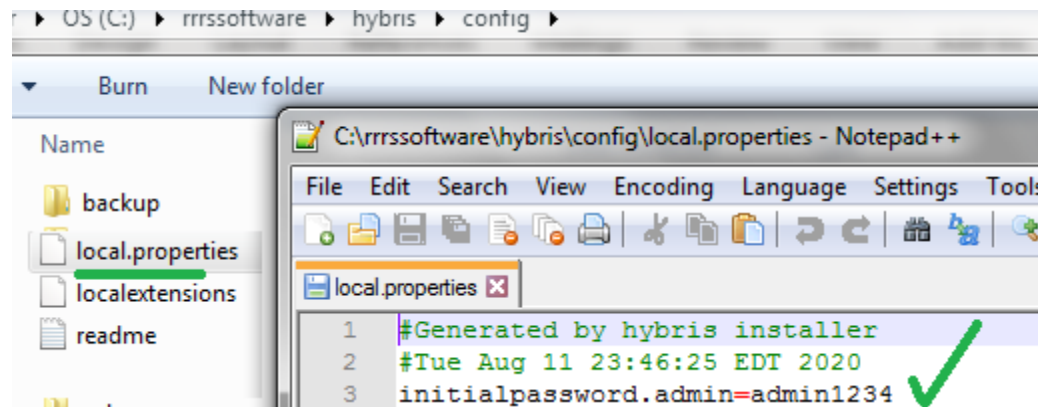
Step 13 = We can Test the Results (or) **Q** = What we get after successful installation of “SAP Comm [cx] – Custom”?

1) hAC [Hybris Administrative Console]

URL = <https://localhost:9002>

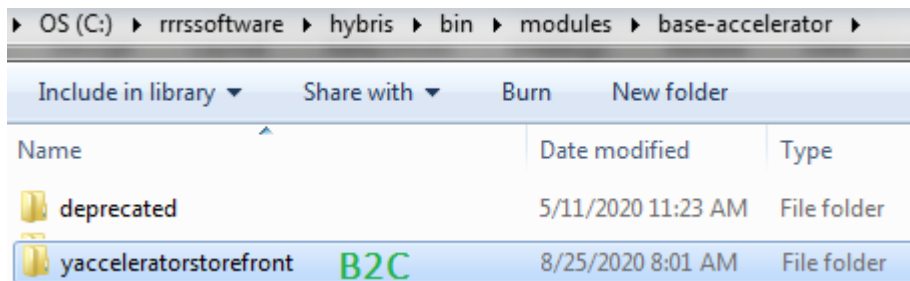
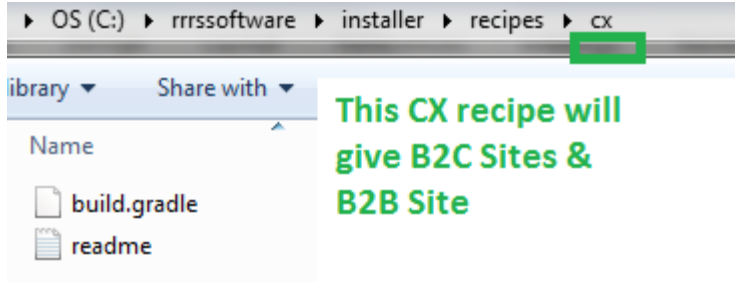
Username = admin

Password = admin1234



2) Sites

We have installed **cx recipes**.



Bcoz of cx recipe – We get 3 B2C Sample Custom Sites =

a) **Apparel-UK** =

<https://localhost:9002/chennarrstrainingstorefront/?site=apparel-uk>

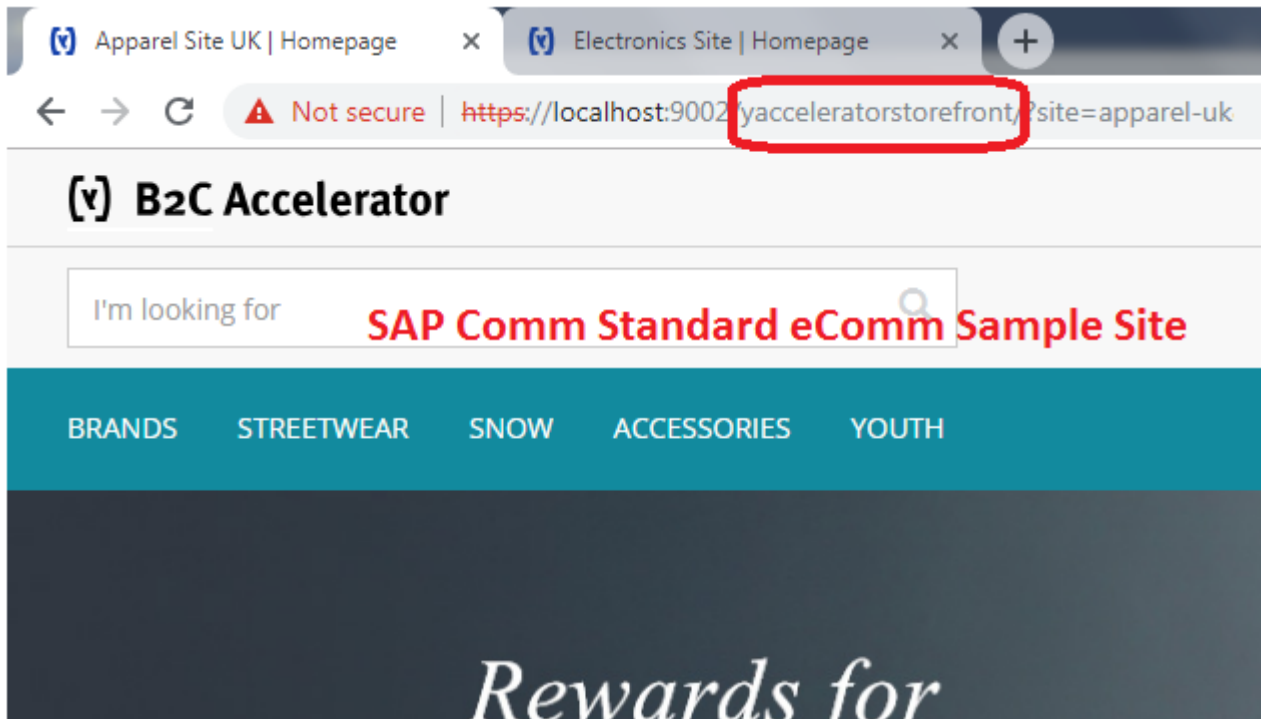
b) **Apparel-DE** =

<https://localhost:9002/chennarrstrainingstorefront/?site=apparel-de&clear=true>

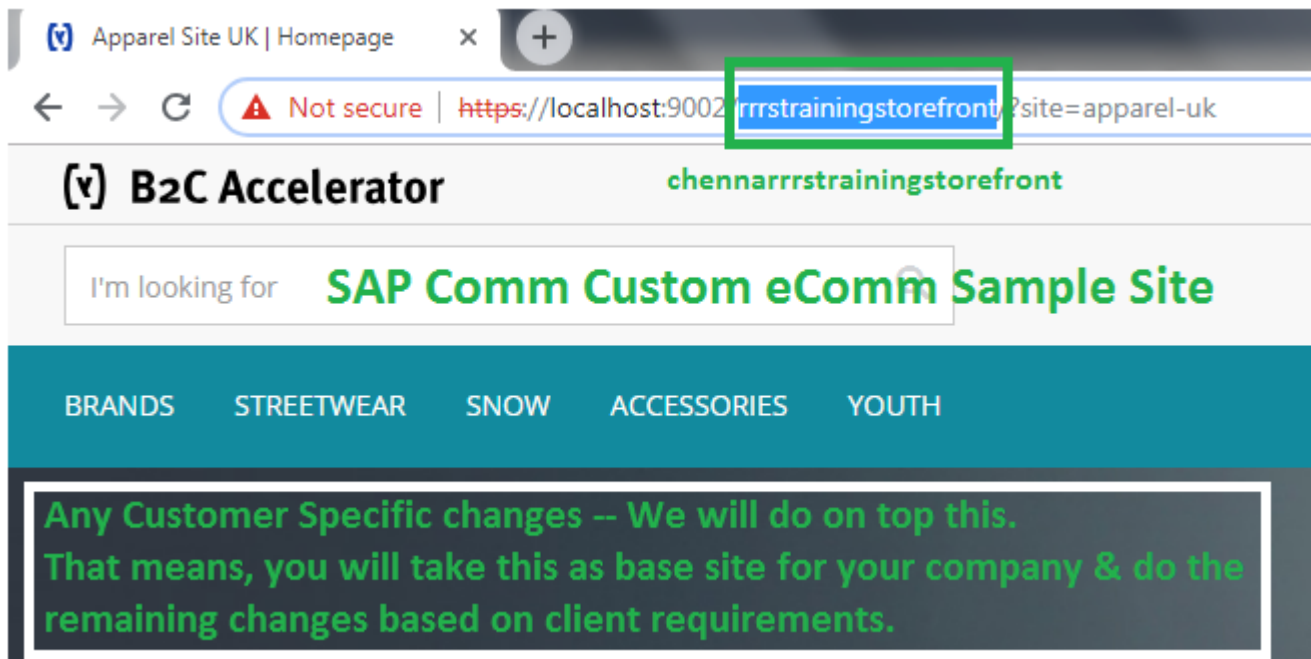
c) **Electronics** =

<https://localhost:9002/chennarrstrainingstorefront/?site=electronics&clear=true>

OOTB eComm Site = yacceleratorstorefront



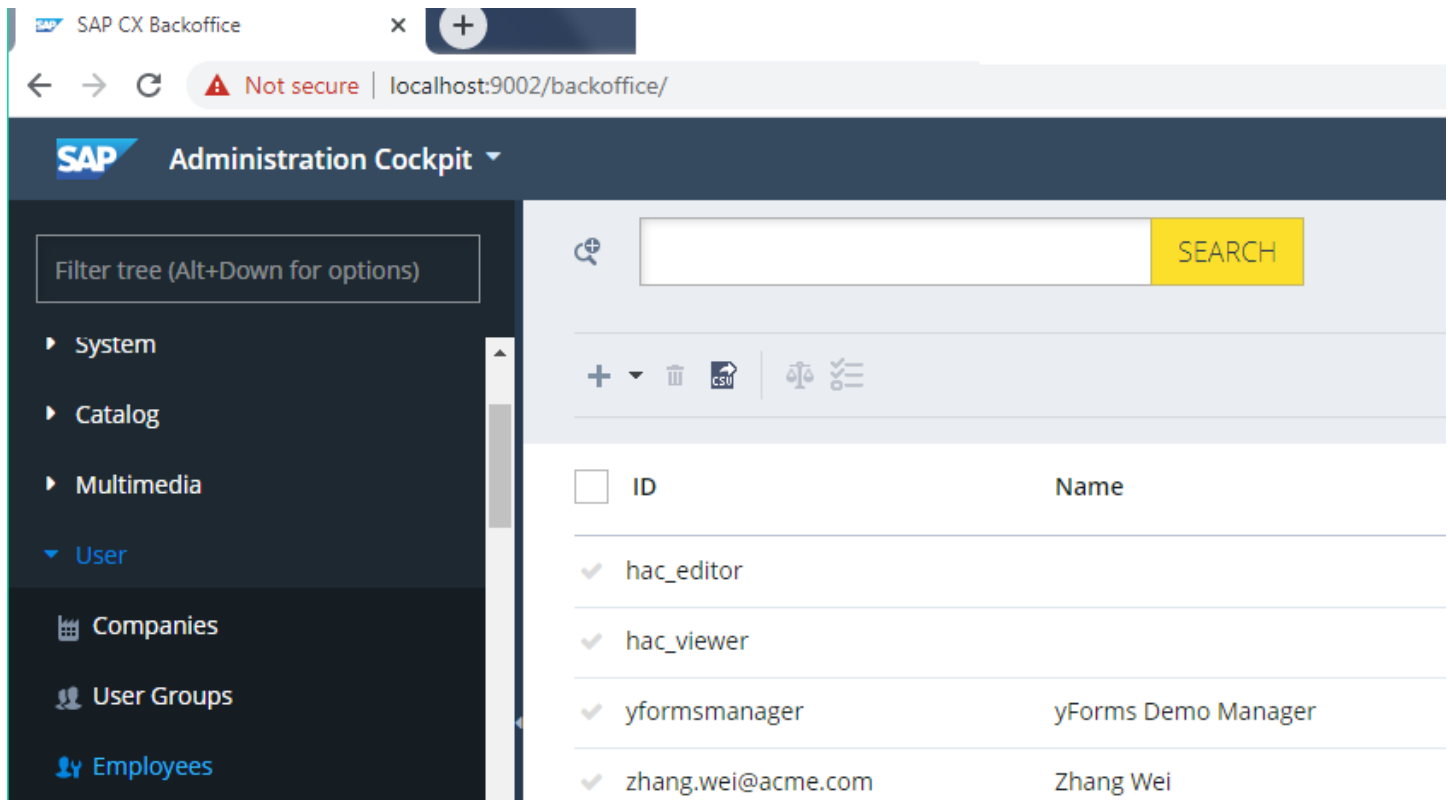
Custom eComm Site = chennarrstrainingstorefront



3) Backoffice

URL = <https://localhost:9002/backoffice/>

Username = admin & Password = admin1234



Toad Toll == SQL Developer Studio == “**SAP Comm – Backoffice**”.

Q = What we do with “Toad / SQL Developer Studio”?

- 1) It connects to DB
- 2) We can see all the tables
- 3) We can see the records inside the tables
- 4) We can perform “Insert record / Update record / Delete record”

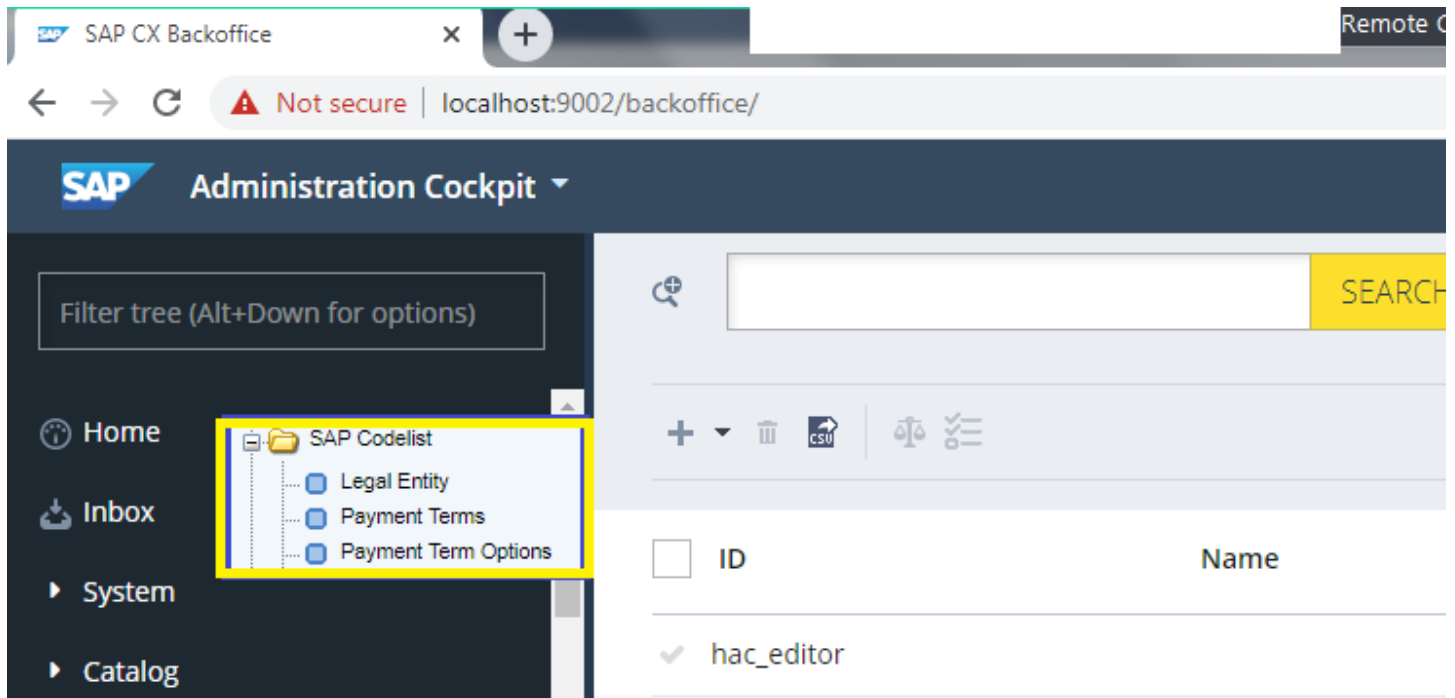
Q = What we do with “Backoffice”?

- 1) It connects to DB
- 2) We can see important tables [cart ... order ... user ... product...]
- 3) We can perform CURD operations [Insert / Update / Delete / Get]

Q = Can we see the tables which are not there by default in backoffice [In left navigation node structure]?

=== Yes. We can do the backoffice customization for this.

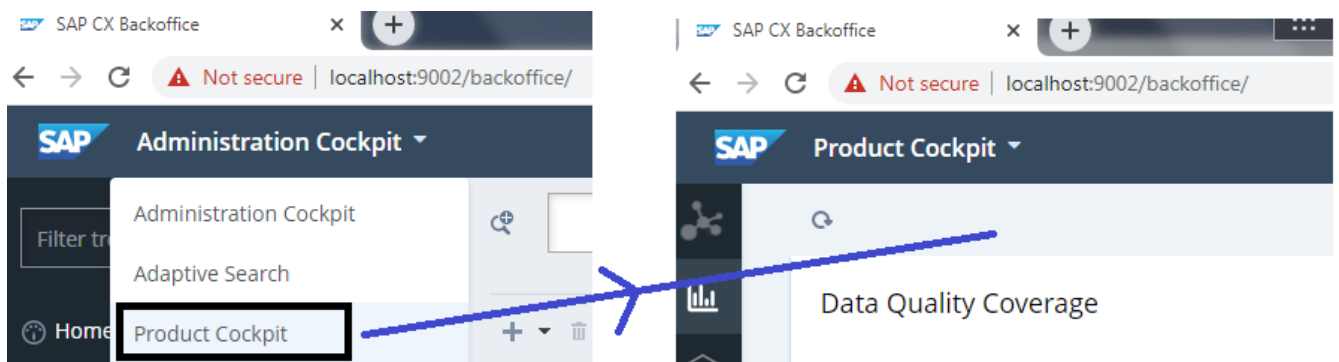
Example =



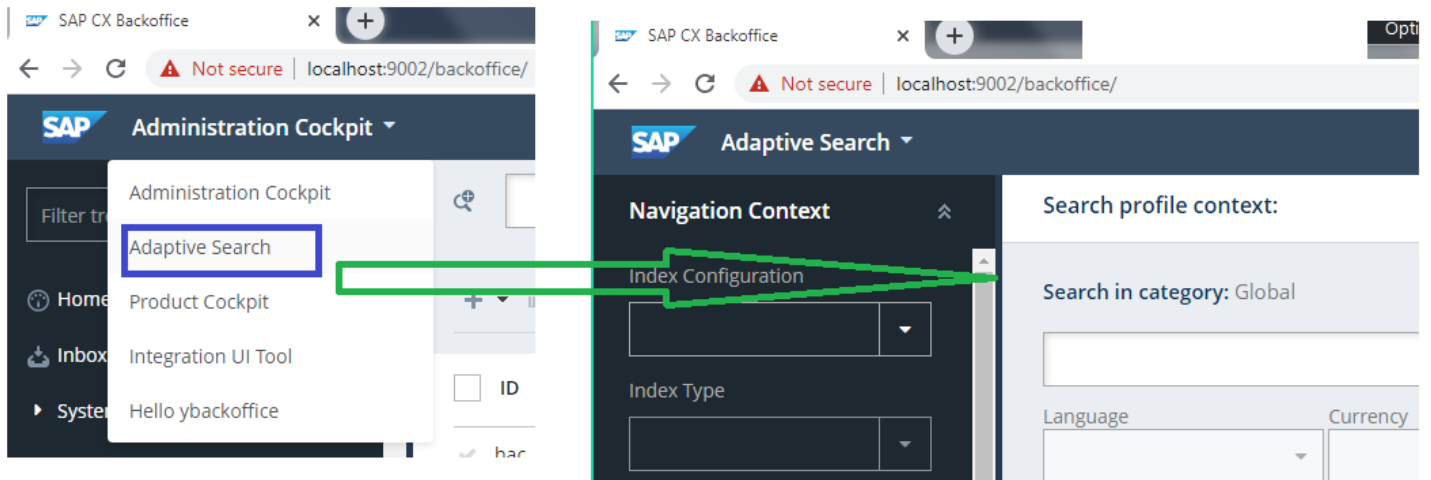
4) Product Cockpit

Product Cockpit is the small software.

With the help of the “**Product Cockpit**” -- Product Manager [PM] can manage [add product / update product / delete product / ...] the products easily.



5) Adaptive Search

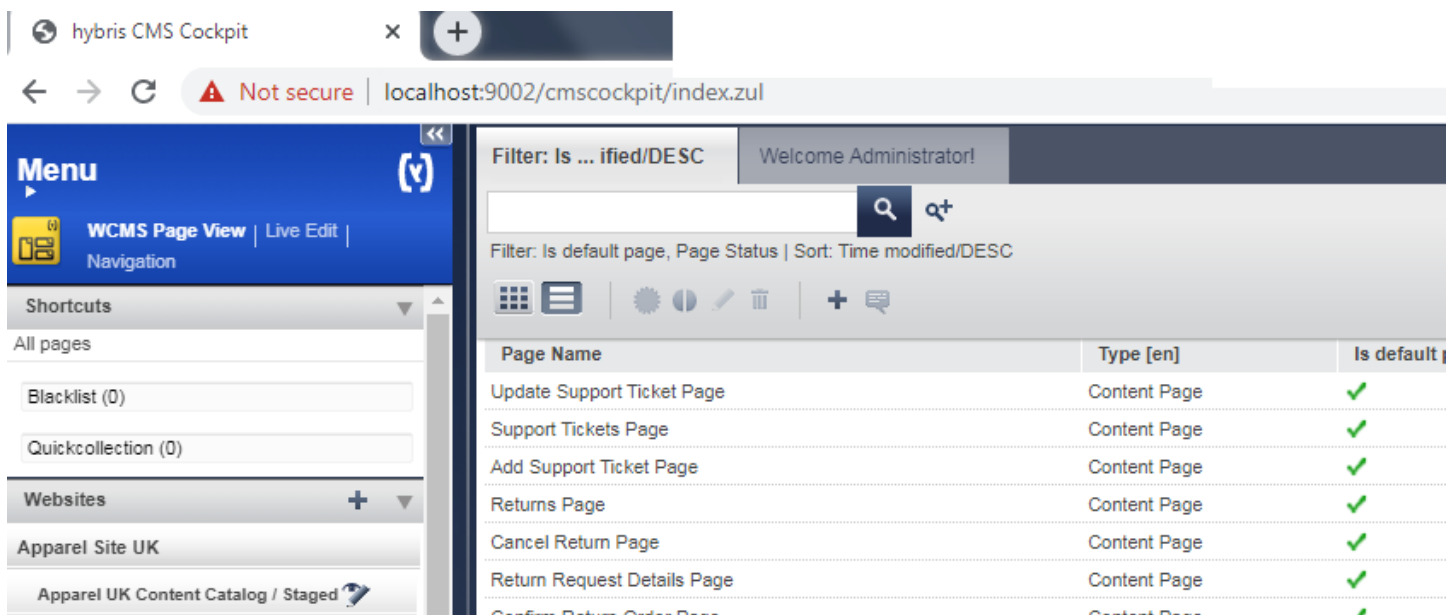


6) Cmscockpit

CMS Cockpit is the small software.

With the help of the “**CMS Cockpit**” -- Content Manager [CM] can manage [add content / update content / delete content / ...] the Content easily.

URL = <https://localhost:9002/cmscockpit/index.zul>

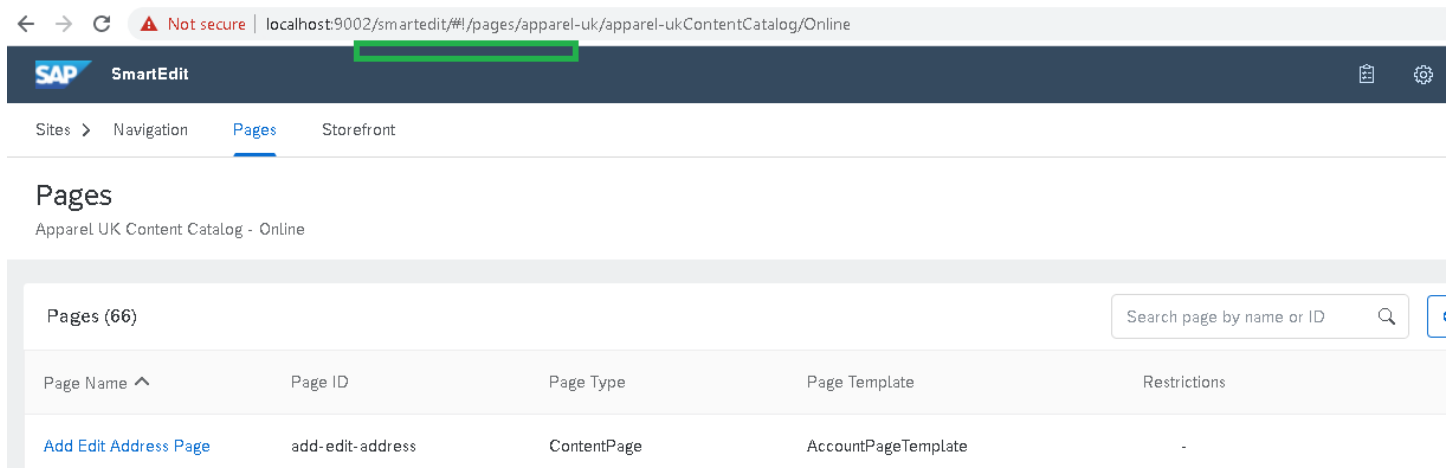


7) SmartEdit

Smart Edit is the small software.

With the help of the “**Smart Edit**” -- Content Manager [CM] can manage [add content / update content / delete content / ...] the Content easily.

URL = <https://localhost:9002/smaredit/>



8) CS Cockpit

Purpose – Customer Service Agent (Create Ticket ...).

<https://localhost:9002/backoffice/login.zul>

csagent (or) CustomerSupportManager & PWD = You can reset

9) Admin Cockpit

Purpose – We can perform admin related activities

<https://localhost:9002/admincockpit/login.zul>

admin admin1234

10) =====

Q = Bcoz of cx recipe we get **3 b2c sites & 1 b2b site**. Where can we see this site details?

The screenshot shows the hybris Backoffice Administration interface. On the left, the 'WCMS' menu is expanded, showing options like 'Website', 'Page Type', 'Page Template', and 'Content Slot Relation for a Page Template'. The 'Website' option is highlighted with a green arrow. On the right, a table lists the Content Catalogs:

ID	Name	Acti...	Content Catalogs
✓ apparel-de	Apparel Site DE	true	Apparel DE Content Catalog
✓ apparel-uk	Apparel Site UK	true	Apparel UK Content Catalog
✓ electronics	Electronics Site	true	Electronics Content Catalog
✓ powertools	Powertools Site	true	Powertools Content Catalog

Q = How to check the Logs (or) Where can we see the logs?

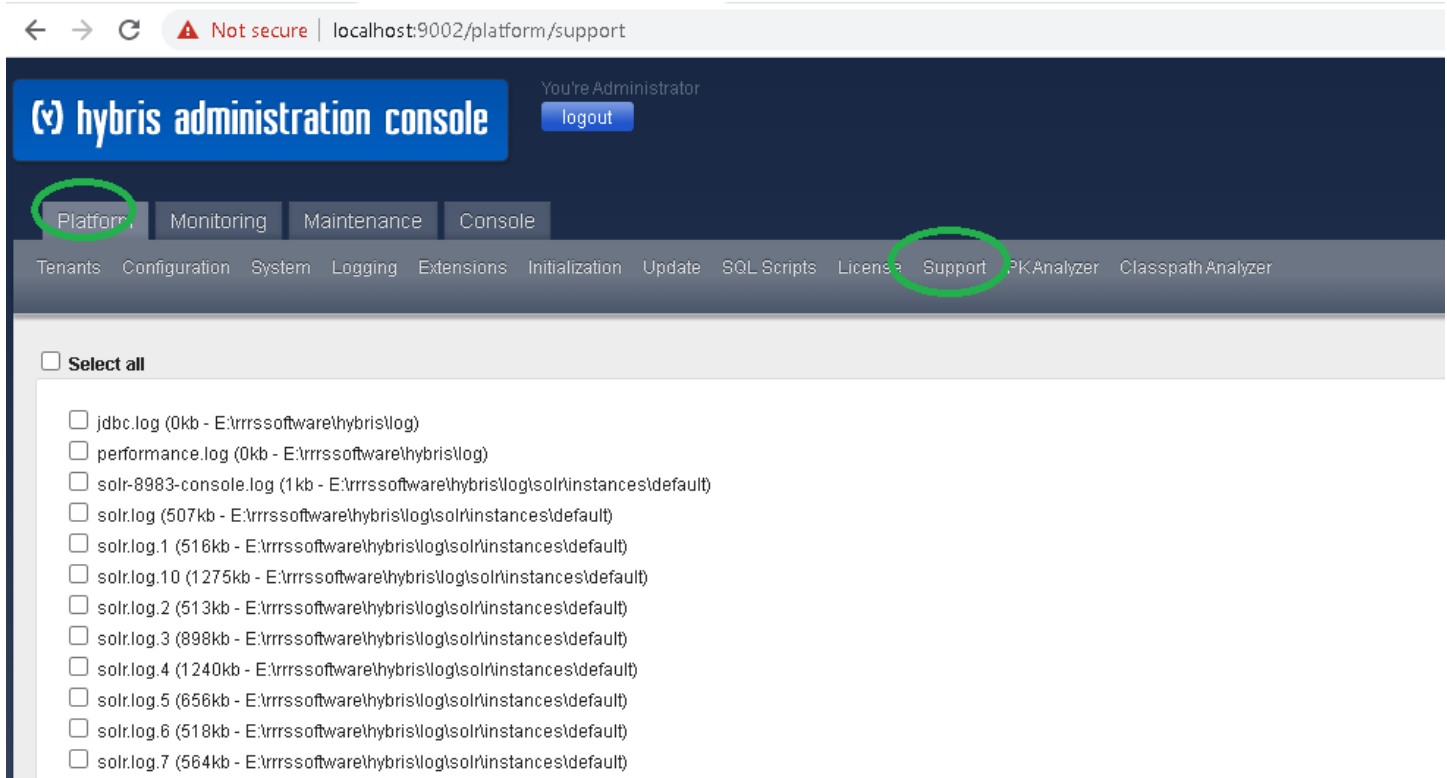
Sol1 =

The screenshot shows a file explorer window with the path 'OS (C:) > rrrsoftware > hybris > log > tomcat' highlighted. The file explorer shows a list of files: 'access.2019-03-03', 'access.2019-03-04', 'console-20190303', and 'console-20190304'. A green arrow points from the 'console-20190304' file to a Notepad++ window. The Notepad++ window displays the content of 'console-20190304.log' with the following text:

```
1 STATUS | wrapper | main | 2019/03/04 19:46:52.524
2 STATUS | wrapper | main | 2019/03/04 19:46:52.542
3 STATUS | wrapper | main | 2019/03/04 19:46:52.542
4 Rights Reserved.
5 STATUS | wrapper | main | 2019/03/04 19:46:52.542
6 STATUS | wrapper | main | 2019/03/04 19:46:52.542
```

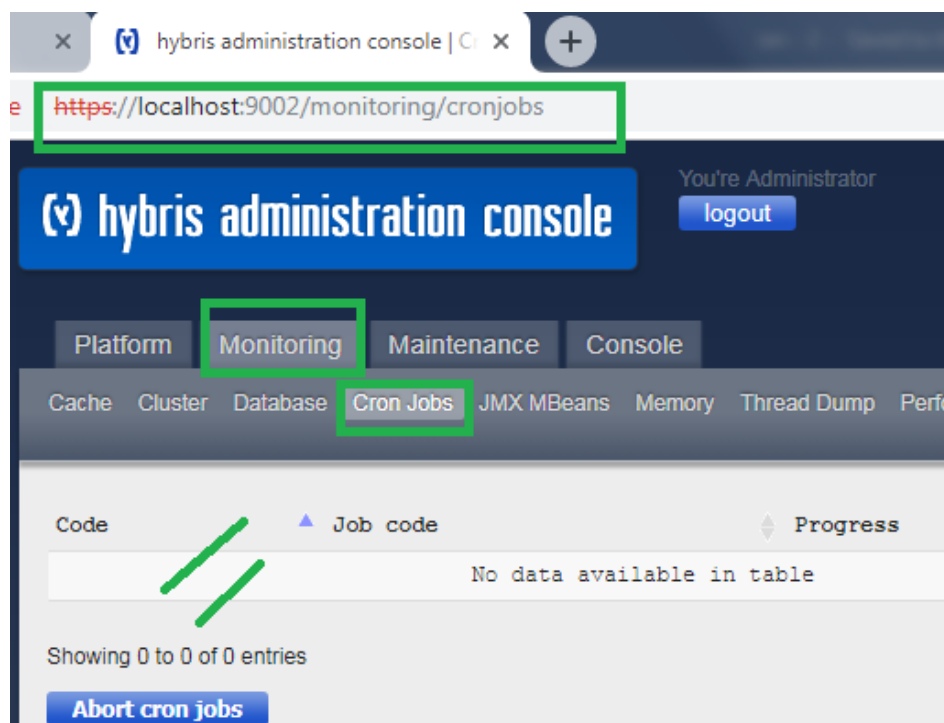
Sol2 = From hAC

-- Platform – Support

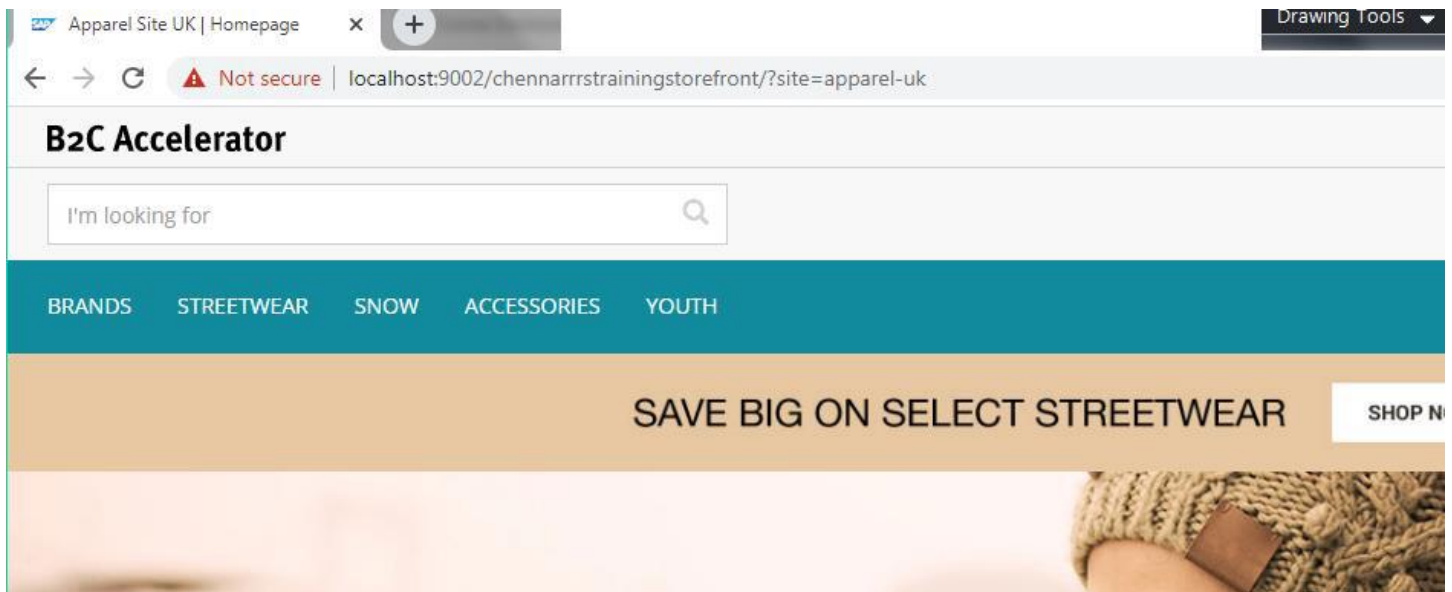


Note = After starting server, there will be some cronjob running every 1 min by default.

Q = Where can we see that default running cronjobs? = hAC



Note = After installation of “SAP Comm” ... We get **80% Site** ready which is suitable for customer. Like below: -



We are able to see above site results because are there lots of tables created behind?

Q1 = When those tables are created?

During the INIT / Update.

Q2 = What are the table created?

Cart ... User ... Order ... Product ... Category ...

Q3 = Those tables are created means, there is code behind. Where can we see that code?

*-items.xml

Q4 = What *-items.xml contains?

Database Modeling / Database Design

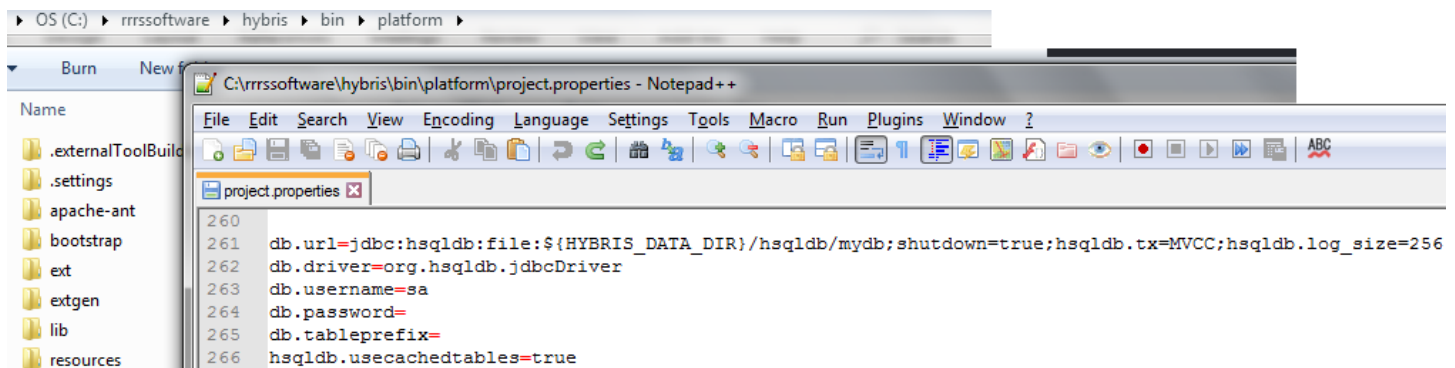
Q5 = Above tables are created where?

SAP Comm by defaults comes up with “**HSQL DB**”.

Above tables are created in “**HSQL DB**”.

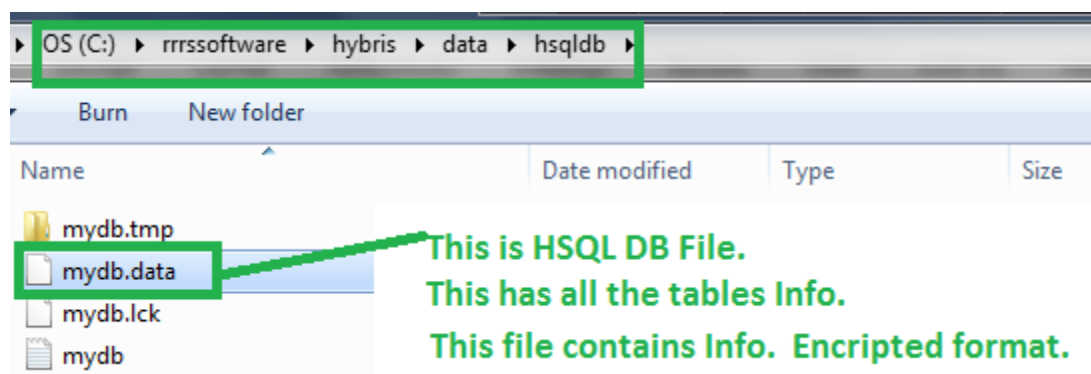
Q6 = Where can we see the SAP Comm provided HSQL DB Connection Details?

C:\rrrssoftware\hybris\bin\platform\project.properties



Q7 = Where can we see the “**HSQL DB**”?

C:\rrrssoftware\hybris\data\hsqldb\abcd\mydb.data

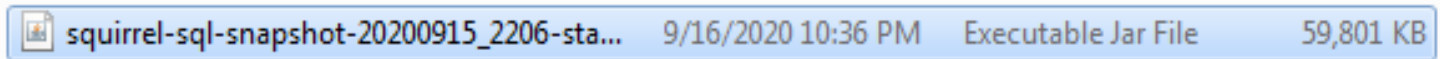


Note = mydb.data is in encrypted format.

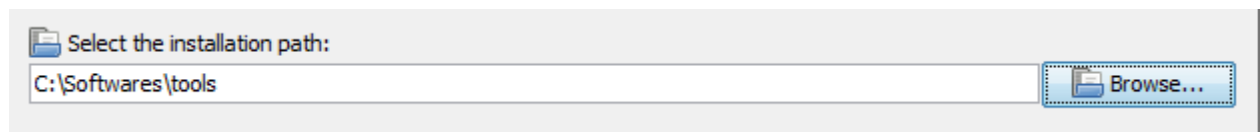
Q = How can we see what table / columns are there in HSQL DB?

Step 1 = Download the Squirrel SQL Client [Jar file]

URL = <https://sourceforge.net/projects/squirrel-sql/>

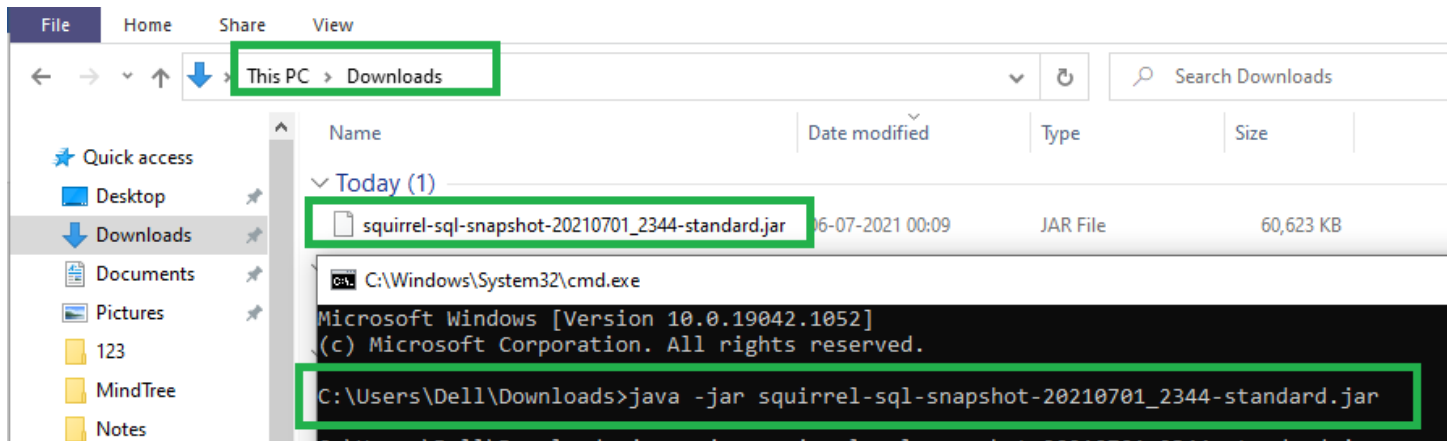


Step 2 = Install the Squirrel SQL Client [By DClick on Jar File] -- Next - Next
Enter the Installation Path



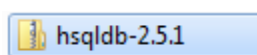
→ Next → Next → Next → Next → Done

(OR)



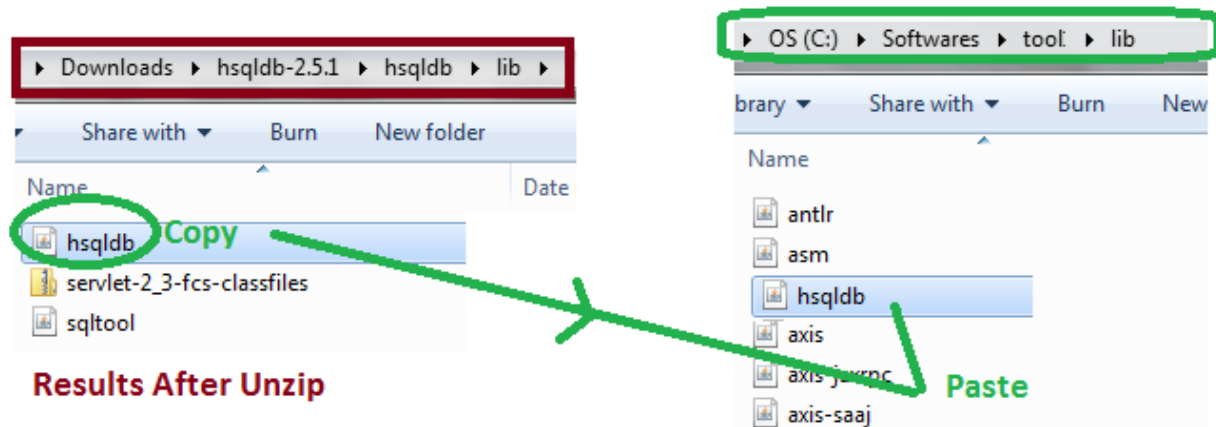
Step 3 = Download HSQL Driver

URL = <https://sourceforge.net/projects/hsqldb/>



Unzip the download “**hsqldb**”

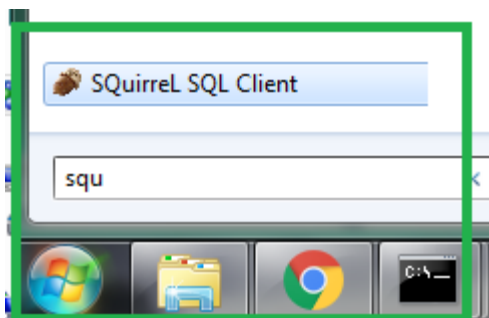
Step 4 = Copy the HSQLDB Jar file & Paste in Squirrel SQL Client



Step 5 = Open the Squirrel Client & Configure the HSQL DB

Solution 1 = C:\Softwares\tool>squirrel-sql.bat

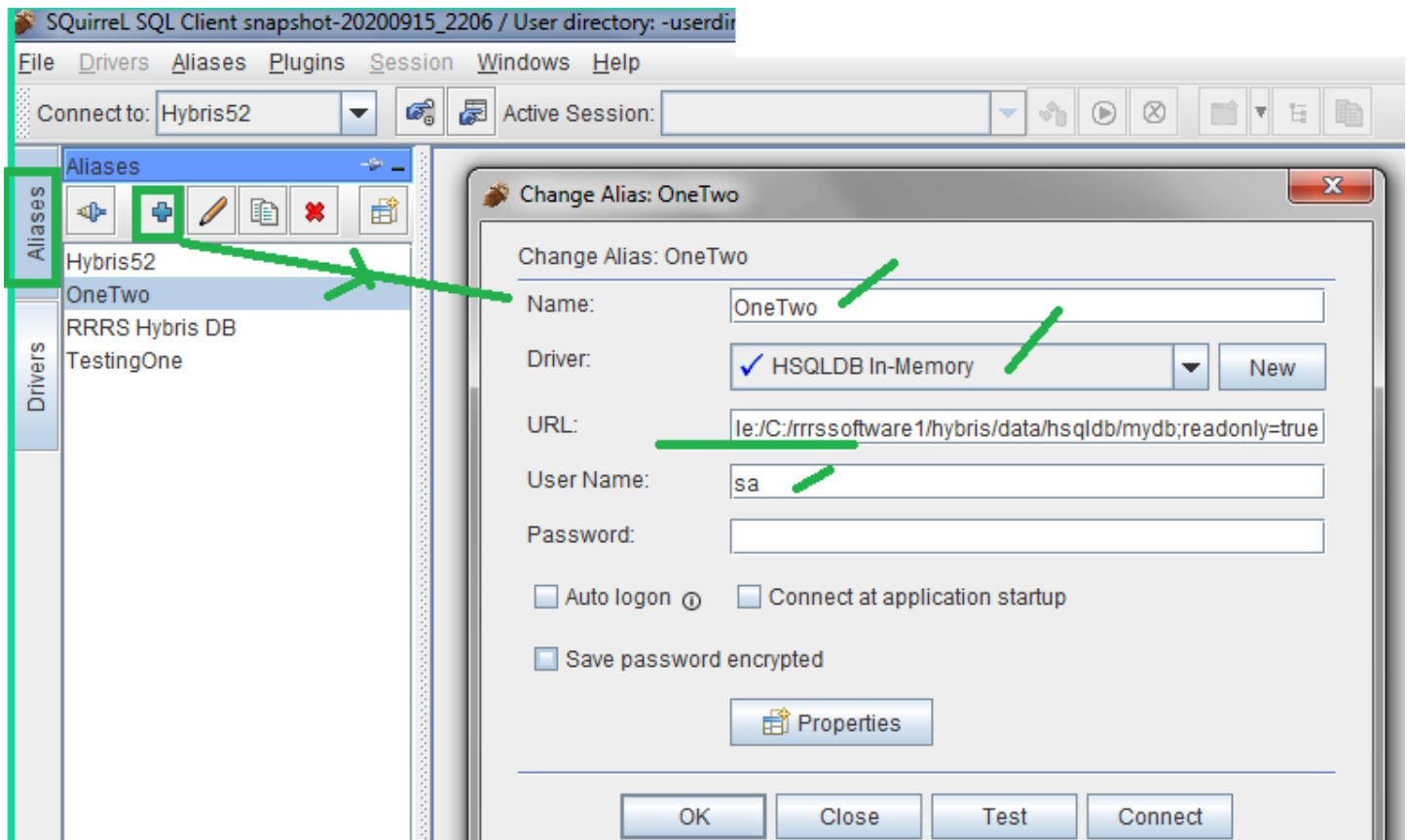
Solution 2 = Click on Start Button – Search for “Squirrel” & Open it



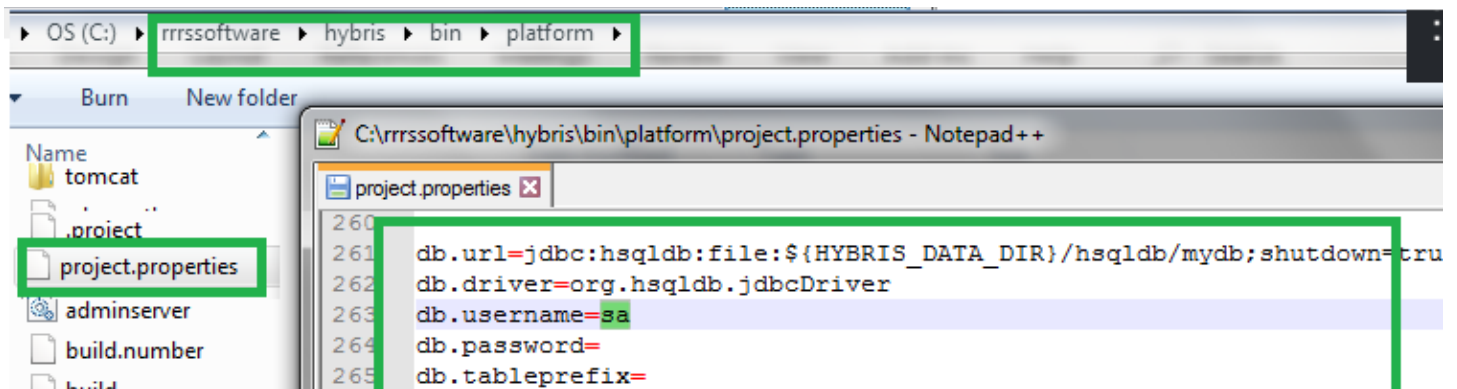
URL = jdbc:hsqldb:file:/C:/rrrssoftware/hybris/data/hsqldb/mydb;readonly=true

URL = jdbc:hsqldb:file:C:/rrrssoftware/hybris/data/hsqldb/mydb;readonly=true

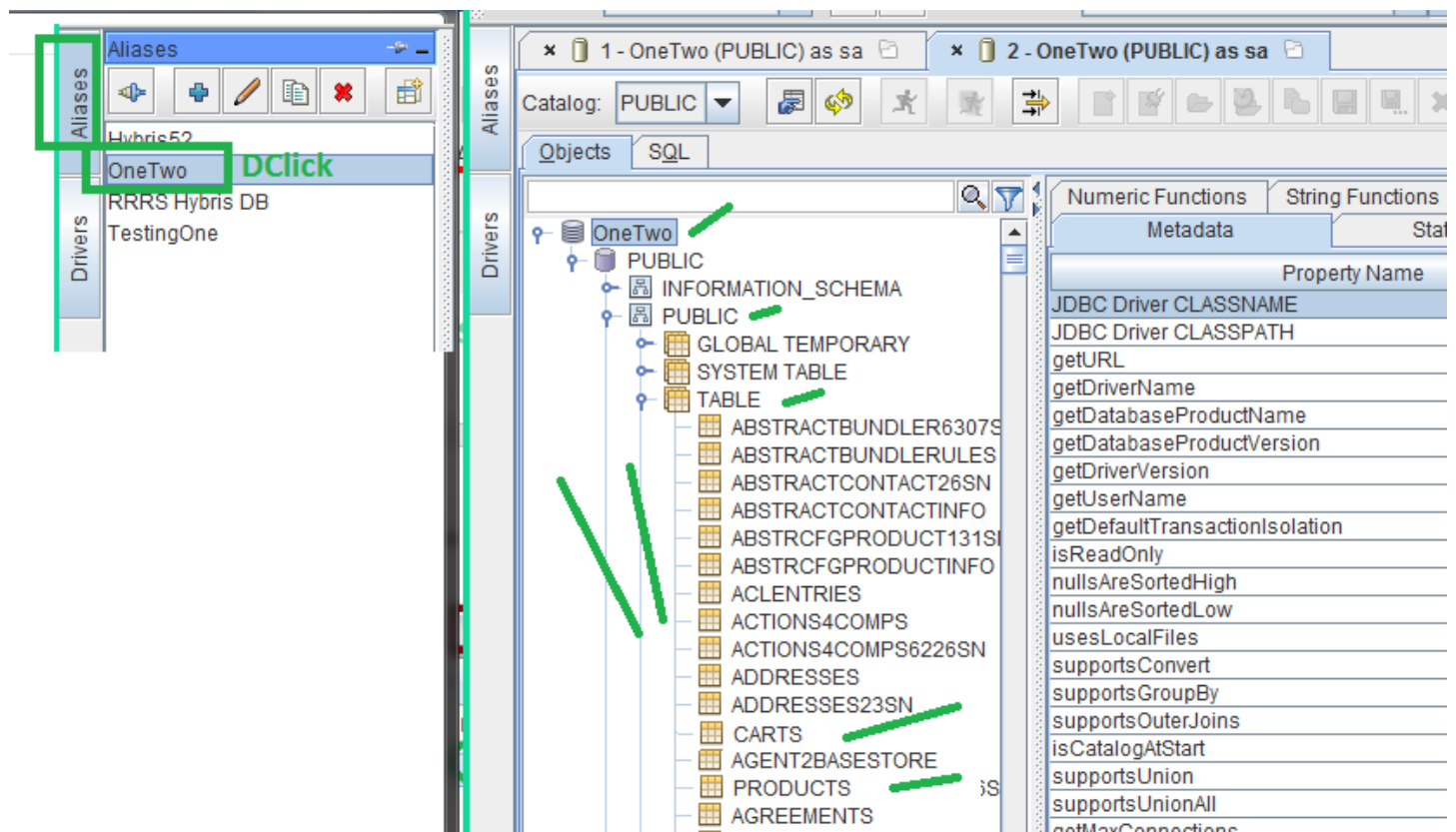
URL = jdbc:hsqldb:file:/rrrssoftware/hybris/data/hsqldb/mydb;readonly=true



Q = From where we are getting the User Name & Password?

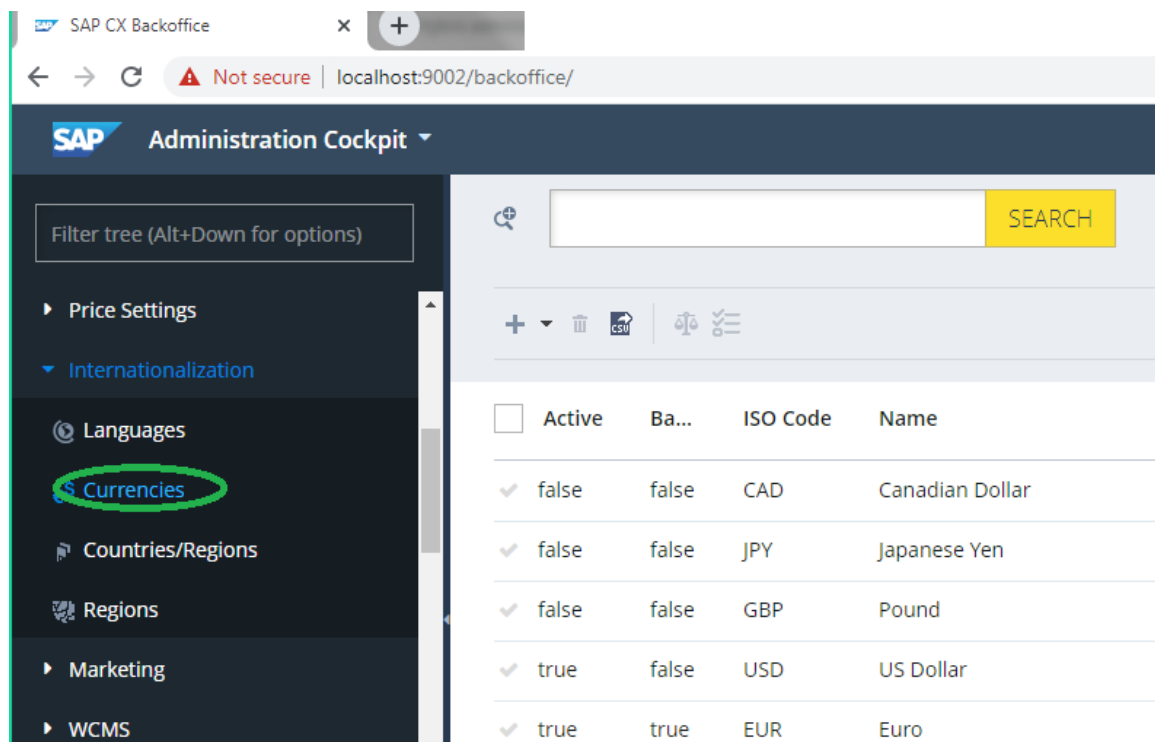


Step 6 = Check the results

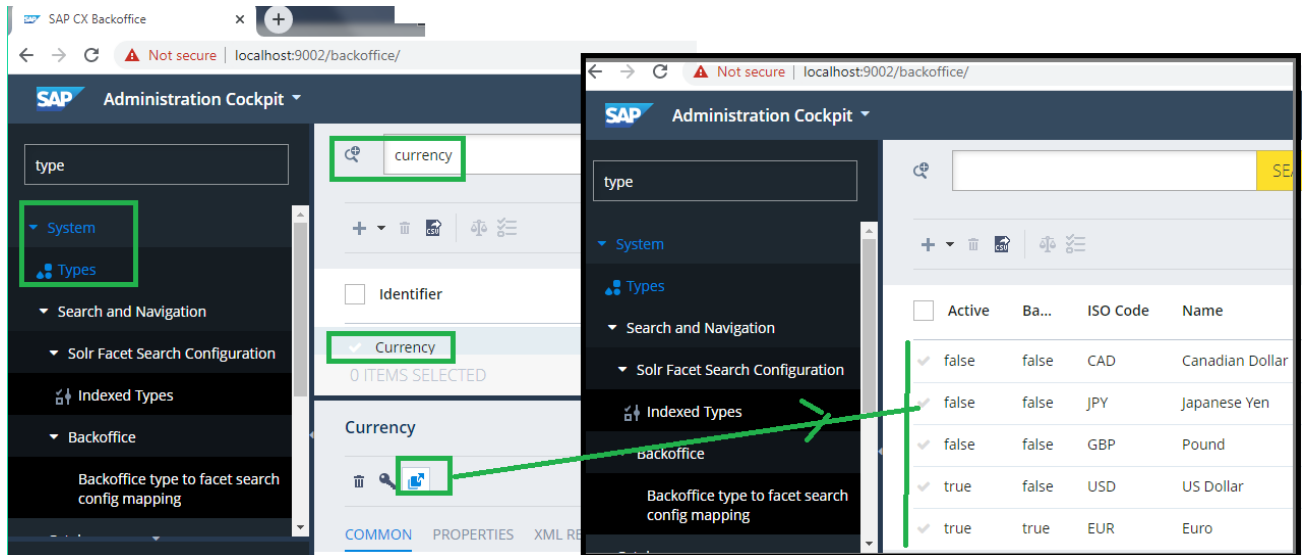


Scenario = What are the different ways to see the table records?

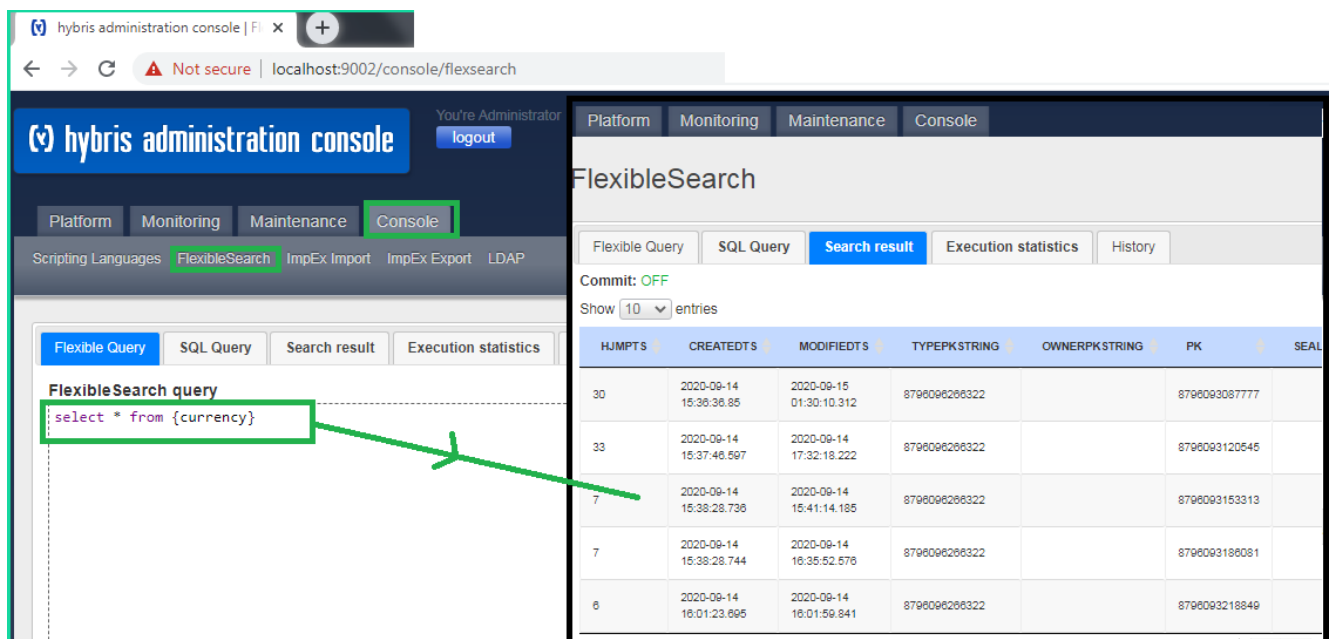
Solution 1 = Backoffice Tool



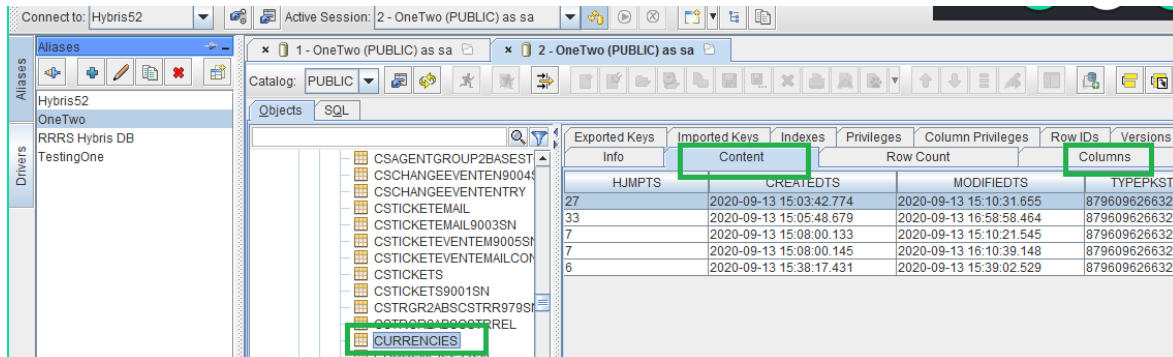
(OR)



Solution 2 = hAC Tool



Solution 3 = DB



Contact Us = ChennaReddyTraining@RRRS.CO.IN

Scenario = Install Eclipse Editor

In C Lang – Where do we write the code? = Turbo C Editor / Visual C++ /

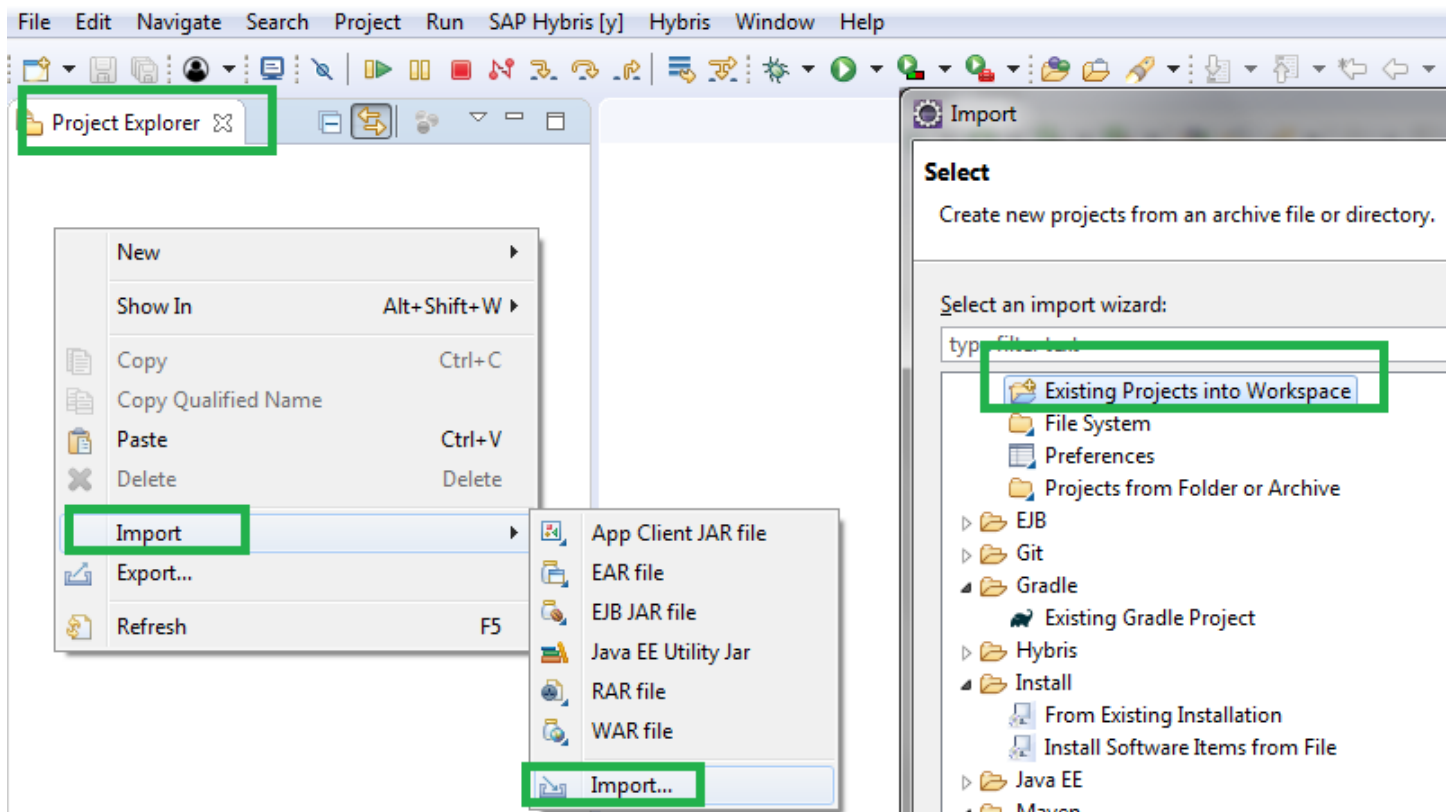
Similarly – To write the Hybris code we can use any Editor = Eclipse / NetBeans / Notepad /

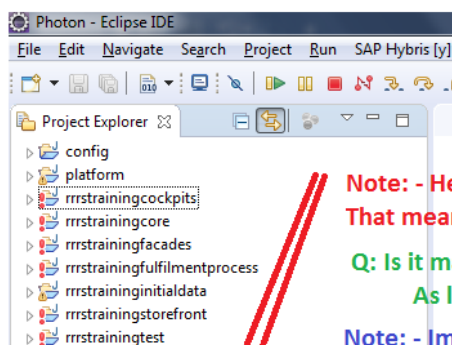
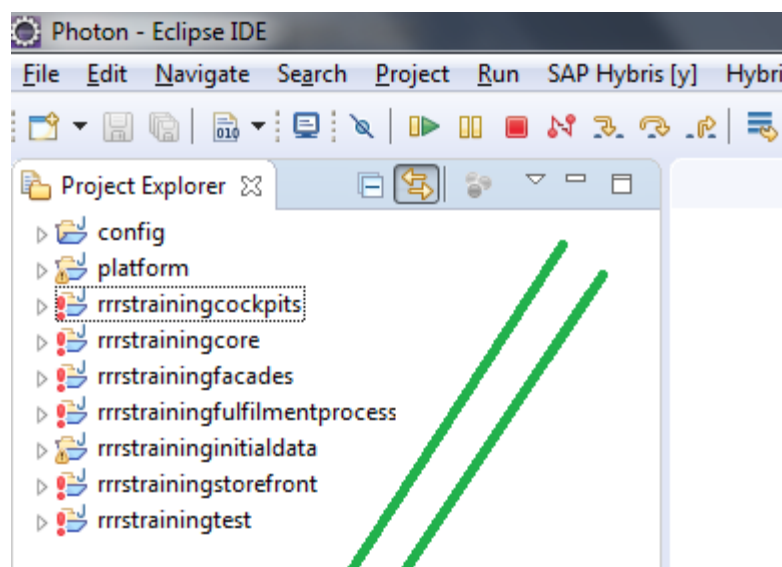
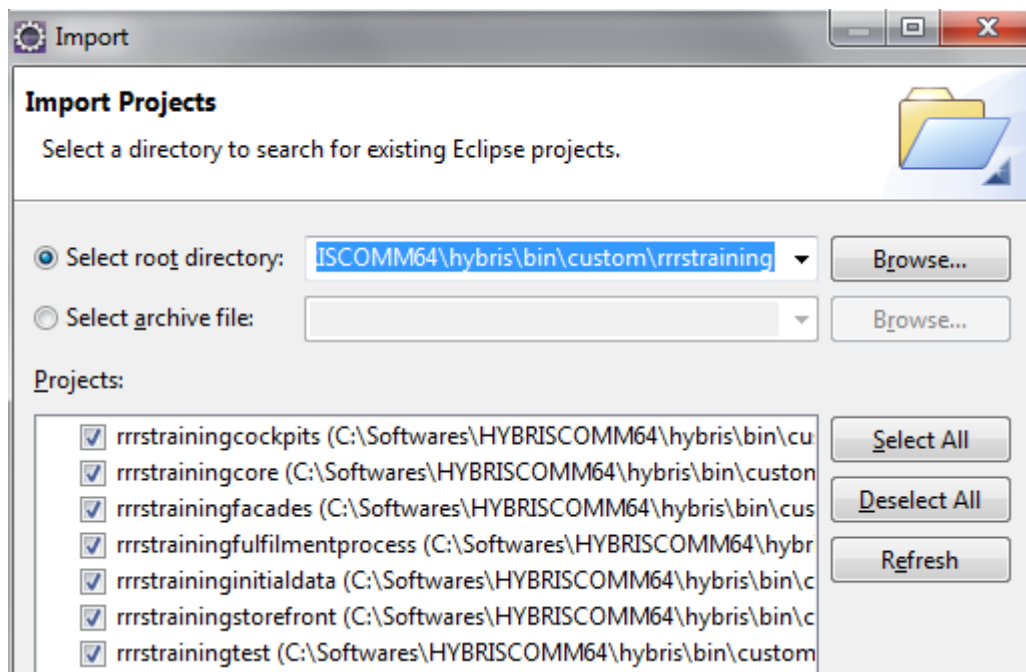
We can download Eclipse form = <https://www.eclipse.org/downloads/>

Note = You can download any version / flavor of Eclipse & install it.



After installation, Open the Eclipse & Import the Exts: -





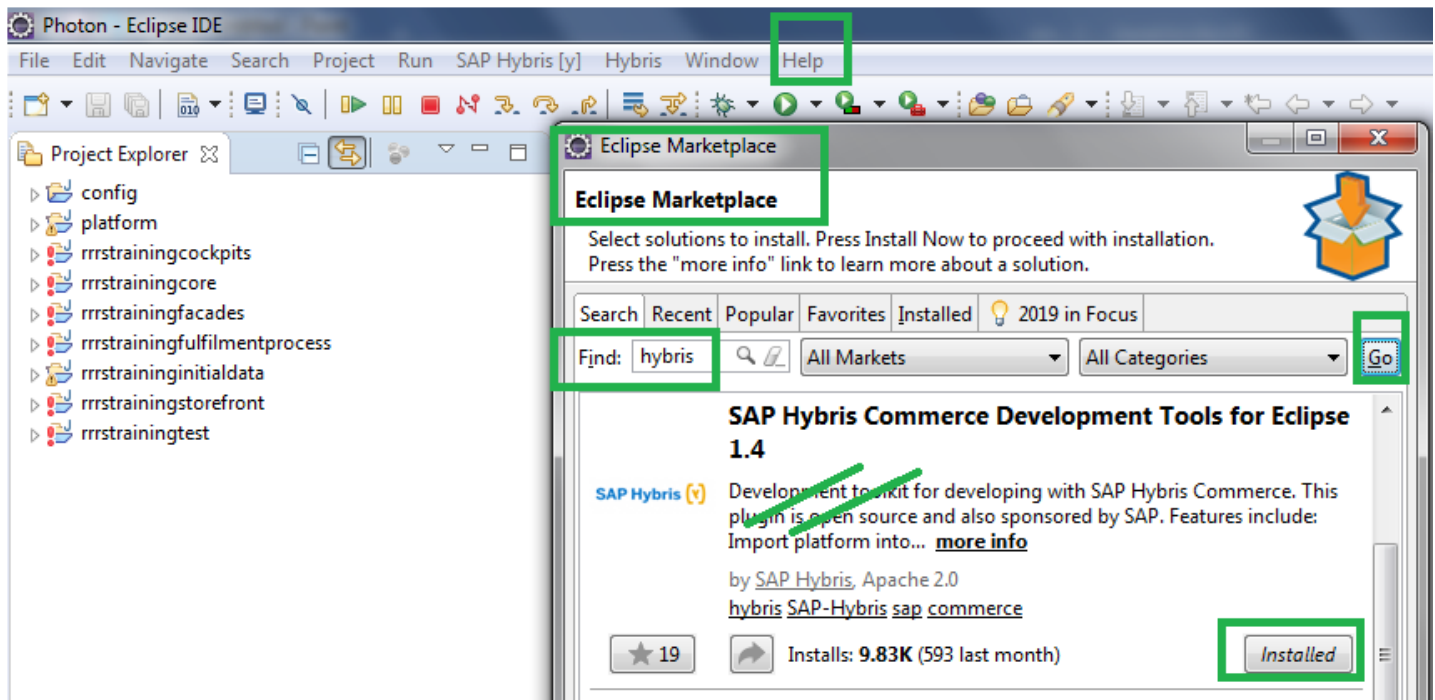
Note: - Here, we see lots of Errors on Exts. Bcoz, we have not imported the Dependant Exts. That means, 1 Ext may depends on 1 / more other Exts. We need import all those dependant Exts

Q: Is it mandatory to import all those dependant Exts? = No.

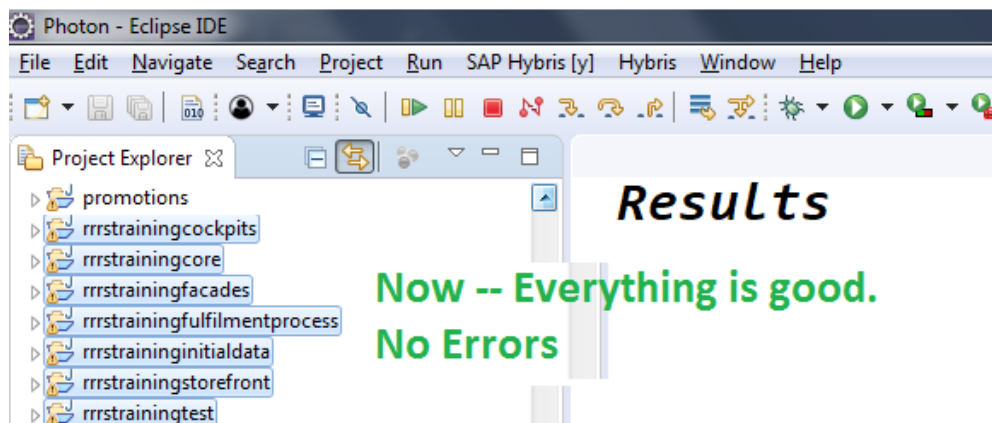
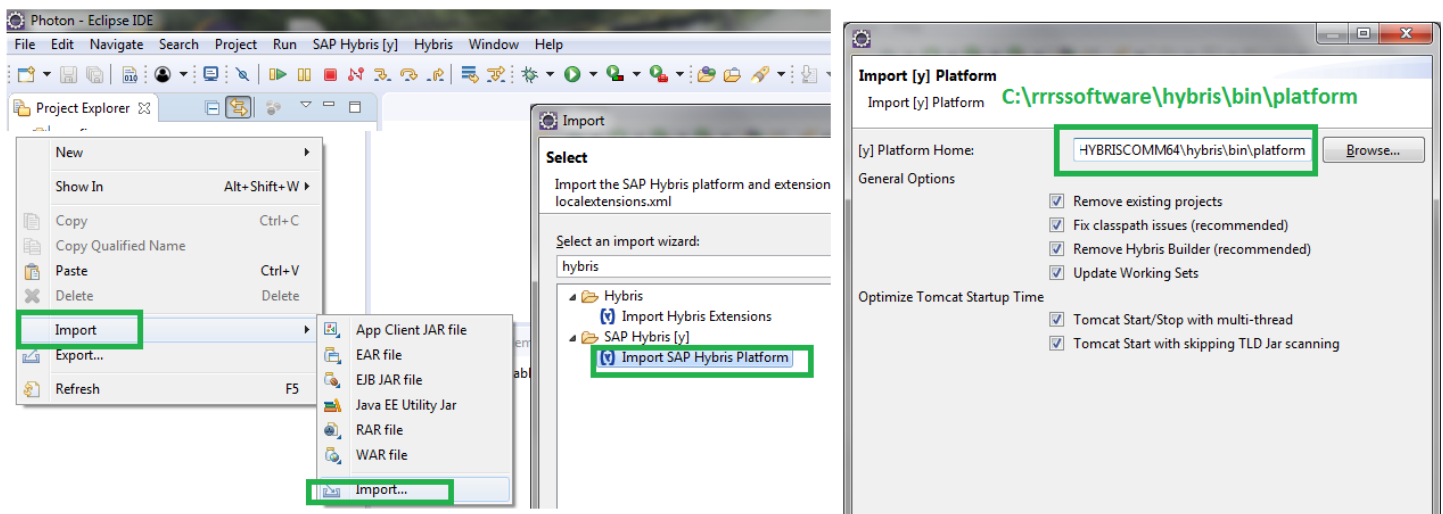
As long as our build (ant clean all) in command prompt is successfull then we are good.

Note: - Importing all the dependant Exts & resolving Eclipse Exts error is not that easy.

If you still want to resolve Eclipse Ext errors then do below: -



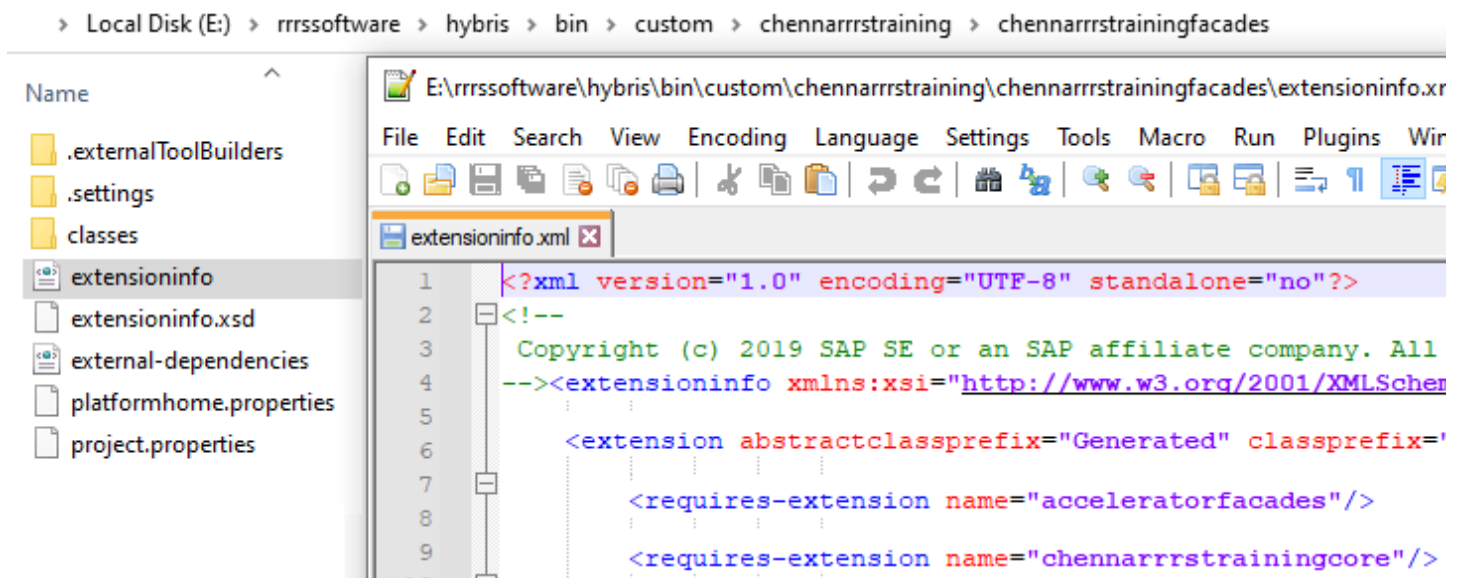
Note = After installation of “SAP Hybris Commerce Development Tools for Eclipse” – Do below:



Note = 1 Ext can depend on 1 / more other Exts.

Q = Where can we see this Exts dependency mentioned / defined? =

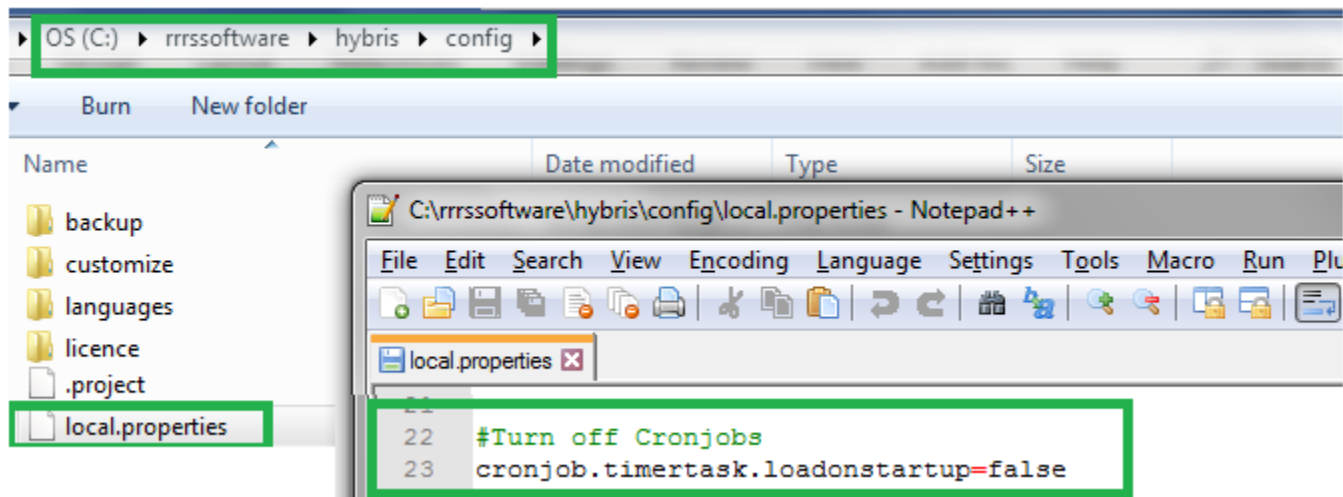
In “**extensioninfo.xml**” file with “**requires-extension**” tag.



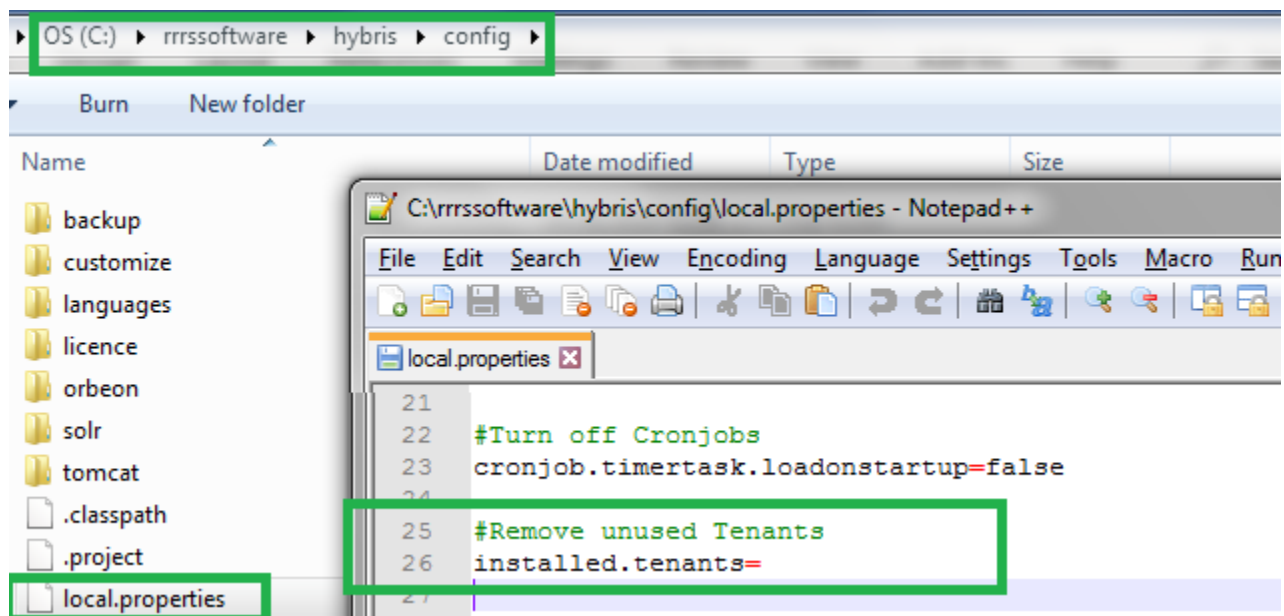
Q = How to improve / reduce “Hybris Server Startup” time?

C:\rrrssoftware\hybris\bin\platform>**Hybrisserver.bat** [This is taking lots of time]

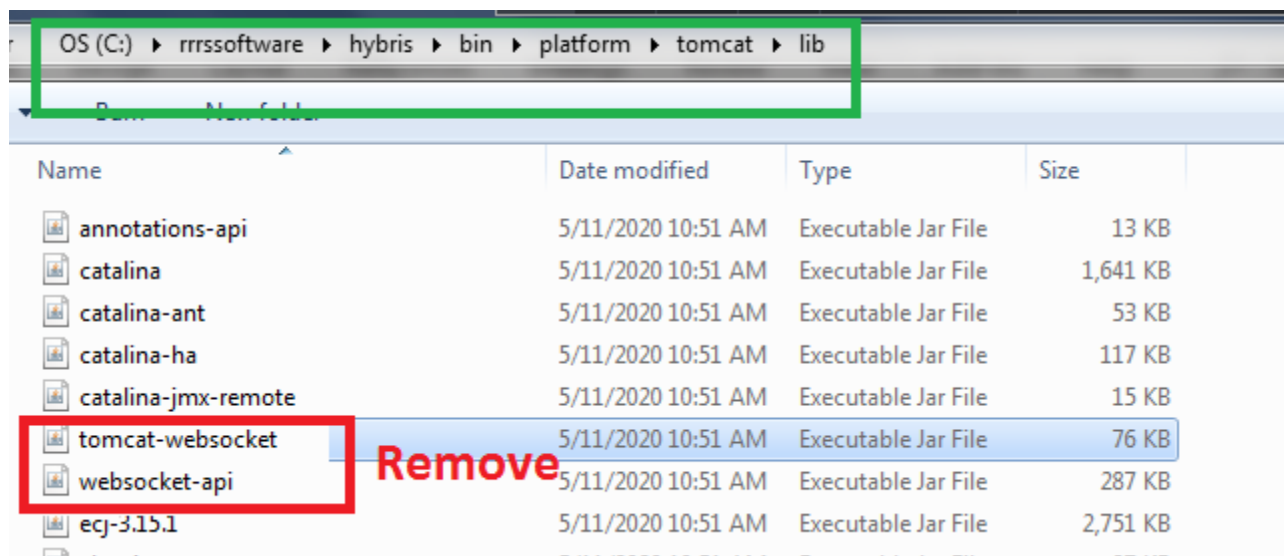
Sol1 = Turn off Cronjobs [Default Cronjobs]



Sol2 = Remove unused Tenants

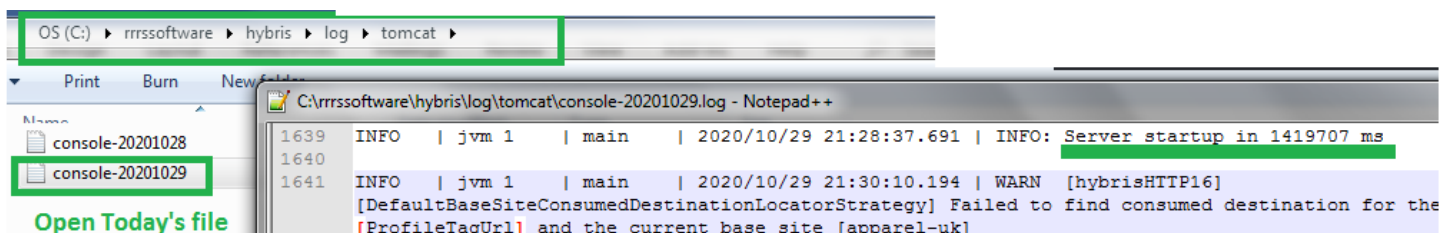


Sol3 = Remove Web Socket Jar file



Note = After doing above 3 solutions...

Do the build [“ant clean all”] & start the server [Hybrisserver.bat] and check the **server startup time / speed**.

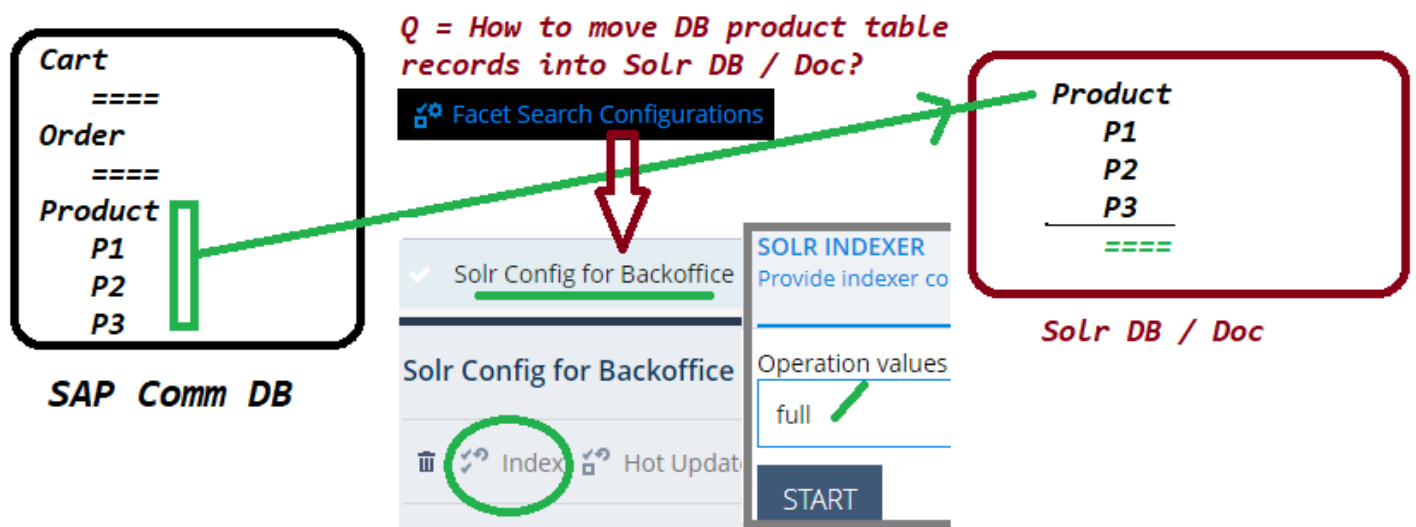


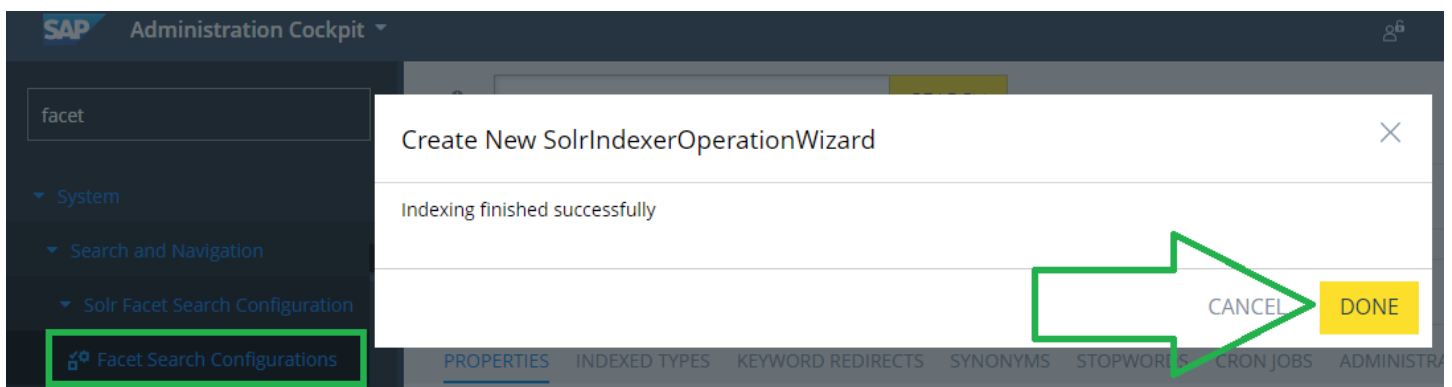
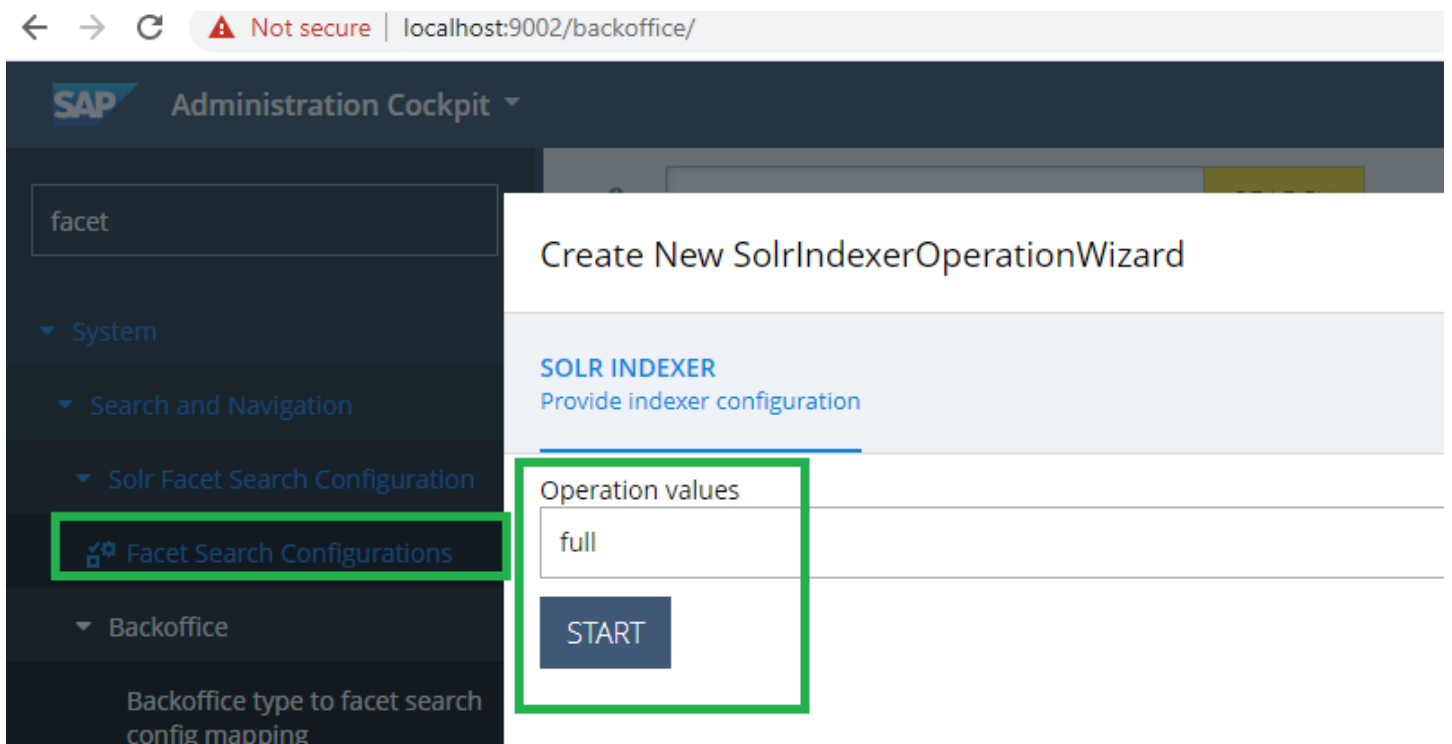
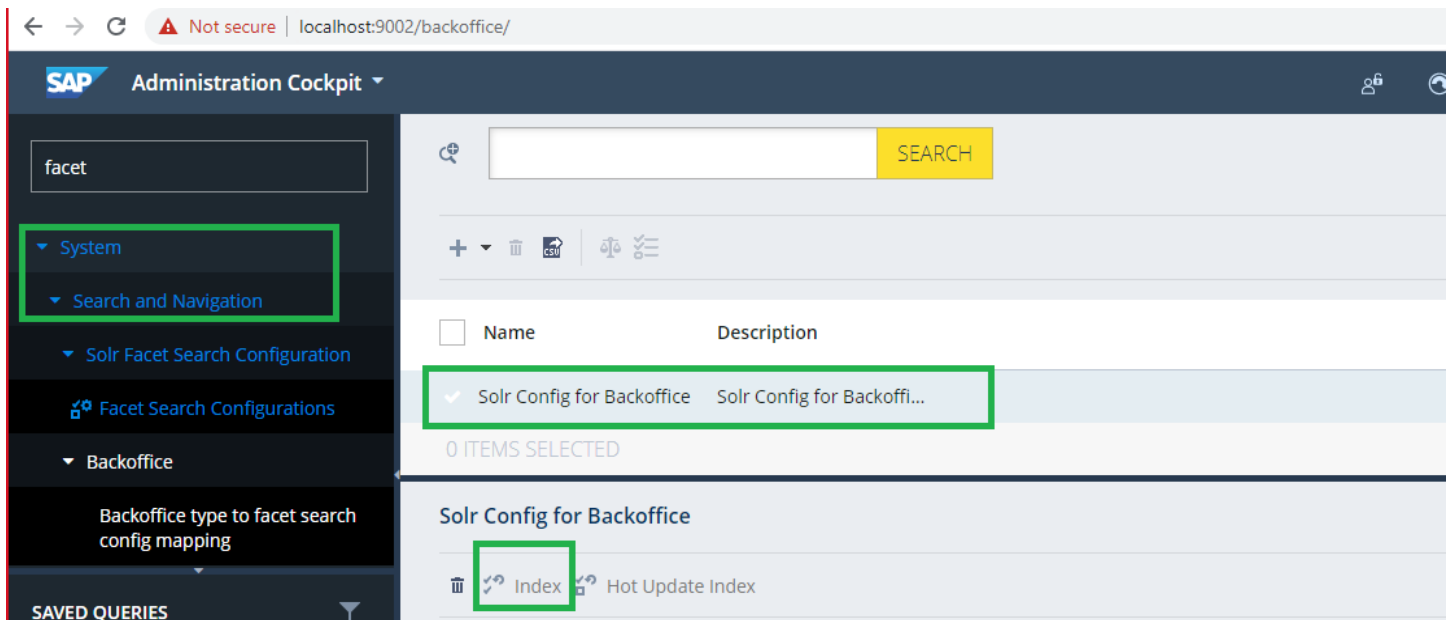
Scenario =

The screenshot shows the SAP CX Backoffice Administration Cockpit interface. On the left, the 'Catalog' menu is expanded, with 'Products' highlighted. A green arrow points from 'Products' to the 'Basic Search' section. In the center, the 'Product Cockpit' dropdown is highlighted with a yellow box. A yellow arrow points from this dropdown to a red error banner at the bottom right that says 'Could not execute search'. Another red error banner at the top center also says 'Could not execute search'. Below the screenshot, the text reads:
Q = Why we are getting this error?
Backoffice - Product [Basic Search] & Product Cockpit get the records from Solr DB (or) Doc.

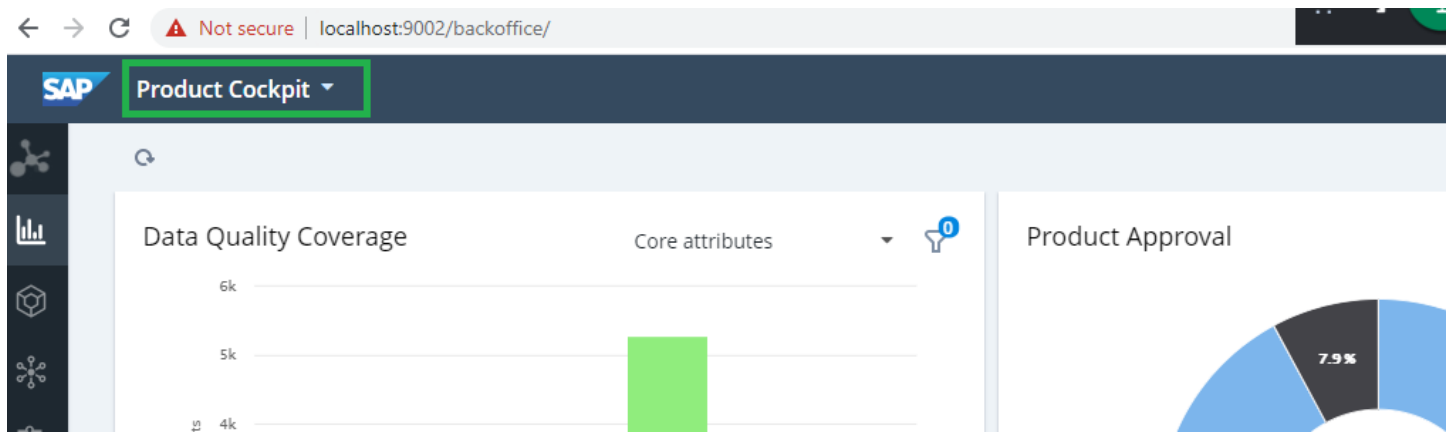
Note = Backoffice – Product [Basic Search] & Product Cockpit get the records from Solr DB / Doc [Not from DB].

SAP Comm provide OOTB index job. This job move “SAP Comm – Product table records into Solr DB / Doc”. Just run this Job.





Results =



The screenshot shows the SAP Administration Cockpit interface. The left sidebar contains navigation icons, with 'Products' highlighted. The main area displays a table of products with columns: Article Number, Identifier, Status, and Catalog version.

Article Number	Identifier	Status	Catalog version
300441142	Cap Blue Tomato BT Snow Trucker Cap black	✓	Apparel Product Catalog :
29531	Snowboard Ski Tool Toko Side Edge Angle Pro 88 Grad	✓	Apparel Product Catalog :

The screenshot shows the SAP Administration Cockpit interface with an advanced search filter applied. The left sidebar contains navigation icons, with 'Products' highlighted. The main area displays a table of products with columns: Article Number, Identifier, Status, and Catalog version. A green line connects the 'Products' icon in the sidebar to the search bar. A yellow box highlights the 'SEARCH' button. A green box highlights the search criteria: 'Product' and 'Contains'.

Advanced Search
==> Get records
from DB [Not Solr]

Attribute	Comparator	Value	Sort Order
Article Number	Contains		

Article Number	Identifier	Status	Catalog version
300441142	Cap Blue Tomato BT Snow Trucker Cap black	✓	Apparel Product Catalog
29531	Snowboard Ski Tool Toko Side Edge Angle Pro 88 Grad	✓	Apparel Product Catalog
29532	Snowboard Ski Tool Toko Side Edge Tuning Angle Pro 87 Grad	✓	Apparel Product Catalog
29533	Snowboard Ski Tool Toko Ergo Multi Guide yellow	✓	Apparel Product Catalog