Working with the Class Builder



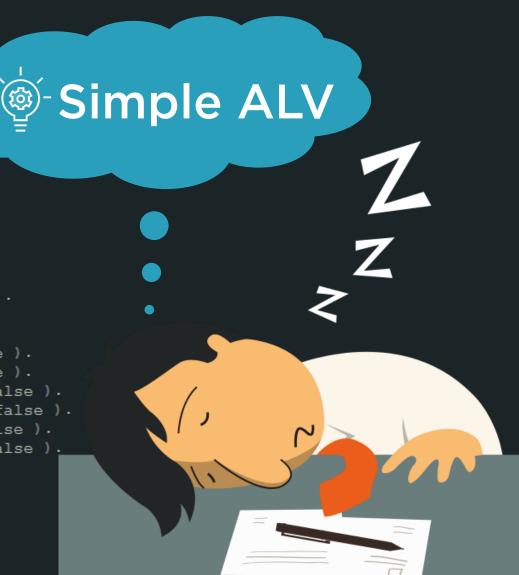
Alex Gönczy
ABAP DEVELOPER

@abapmentor http://abapmentor.expertise-team.com/

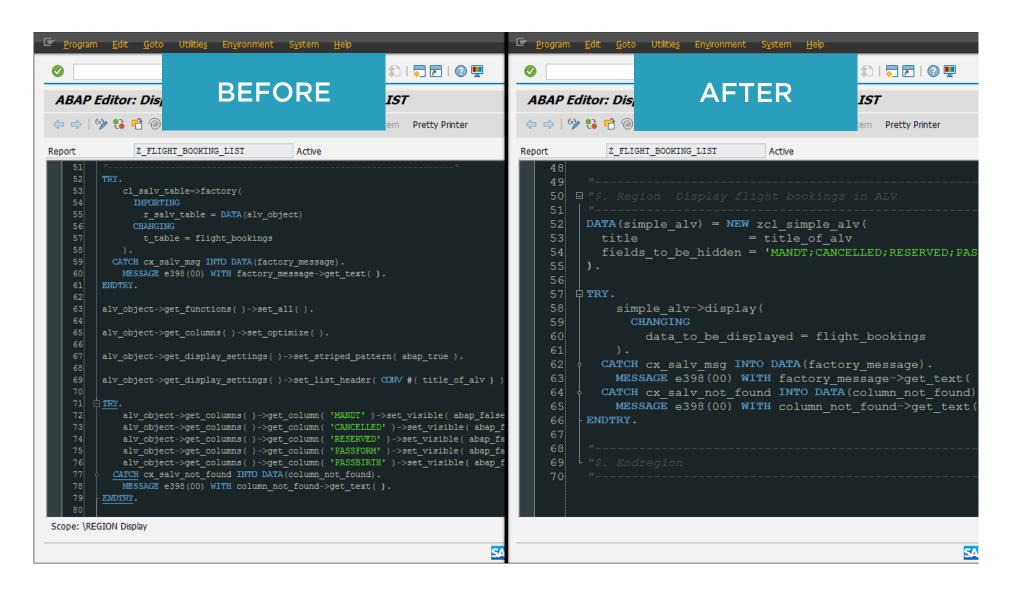


CL SALV TABLE Class

```
TRY.
   cl salv table=>factory(
     IMPORTING
       r salv table = DATA(alv)
     CHANGING
       t table
                    = flight bookings
 CATCH cx salv msg INTO DATA(salv msg).
   MESSAGE e398(00) WITH salv msg->get text().
ENDTRY.
alv->get functions()->set all().
alv->get columns()->set optimize().
alv->get display settings()->set striped pattern(abap true).
alv->get display settings()->set list header(CONV #(title of alv)).
TRY.
   alv->get columns()->get column('MANDT')->set visible(abap false).
   alv->get columns()->get column('CLASS')->set visible(abap false).
   alv->get columns()->get column('FORCURAM')->set visible(abap false).
   alv->get columns()->get column('FORCURKEY')->set visible(abap false).
   alv->get columns()->get column('COUNTER')->set visible(abap false).
   alv->get columns()->get column('PASSFORM')->set visible(abap false).
 CATCH cx salv not found INTO DATA(salv not found).
   MESSAGE e398(00) WITH salv not found->get text().
ENDTRY.
alv->display().
```



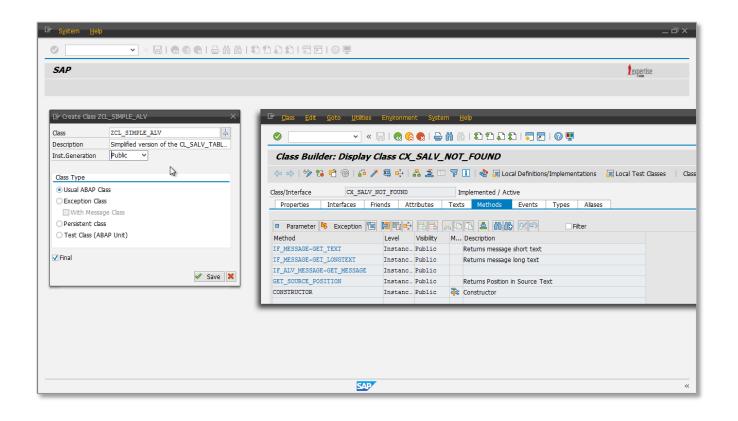
The Goal of This Module





Creating ZCL_SIMPLE_ALV

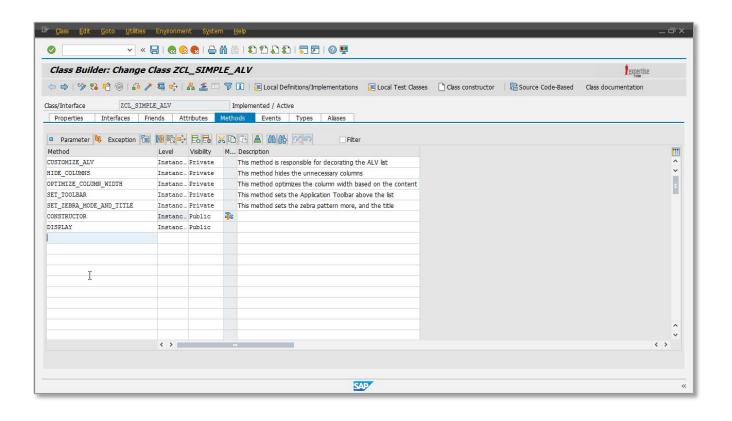






Implementing the Methods







Using ZCL_SIMPLE_ALV



```
<u> Program Edit G</u>oto Utilitie<u>s</u> En<u>v</u>ironment System <u>H</u>elp
                  🔻 « 🔚 | 🚷 🚷 | 🚔 🖍 🖒 | 🖎 🗅 🖒 | 🕝 😾 | 🕢
ABAP Editor: Change Report Z_FLIGHT_BOOKING_LIST
                                                                                                                                    expertise
🗢 🖒 | 🦫 😘 🖆 🎯 | 🖆 🥕 🖷 📫 | 🚠 💆 🗆 🗓 | 👰 🚳 Pattern Pretty Printer
             Z_FLIGHT_BOOKING_LIST
         DATA(simple_alv) = NEW zcl_simple_alv(
                                   = title of alv
            fields to be hidden = 'MANDT; CANCELLED; RESERVED; PASSFORM; PASSBIRTH'
                CHANGING
                   data_to_be_displayed = flight_bookings
            CATCH cx_salv_msg INTO DATA(factory_message).
              MESSAGE e398(00) WITH factory_message->get_text().
            CATCH Cx salv not found INTO DATA(column not found).

MESSAGE e398(00) WITH column_not_found->get_text().
                                                                                                              | ABAP | Ln 60 Col 47 | | N... 6
                                                                      SAP
Active object generated
```



Next

Creating ZCL_SIMPLE_ALV

ZCL_SIMPLL_ALV



Creating ZCL_SIMPLE_ALV



Implementing the CONSTRUCTOR Method



Implementing the DISPLAY Method



Implementing the CUSTOMIZE_ALV Method



Implementing the SET_TOOLBAR Method



Implementing the OPTIMIZE_COLUMN_WIDTH Method



Implementing the SET_ZEBRA_MODE_AND_TITLE Method



Implementing the HIDE_COLUMNS Method



Exception Chain

```
REPORT PROGRAM
Z FLIGHT BOOKING LIST CATCH CX_SALV_NOT_FOUND
         CX_SALV_NOT_FOUND
         DISPLAY()
                  CX_SALV_NOT_FOUND
                  CUSTOMIZE_ALV()
                           CX_SALV_NOT_FOUND
                           HIDE COLUMNS()
                                    CX_SALV_NOT_FOUND
                                    GET COLUMN()
```



Fields To Be Hidden

MANDT; CANCELLED; RESERVED; PASSFORM; PASSBIRTH



MANDT

CANCELLED

RESERVED

PASSFORM

PASSBIRTH



Using ZCL_SIMPLE_ALV



Summary



Working with the Class Builder

- How to create Classes
- How to reuse Classes

What are the benefits?

- No need to implement it one more time
- Reduces the development costs
- You can change it on a central place
- Improves the consistency
- Makes your source code more readable



Summary



Next

Course Summary

What are the benefits?

- No need to implement it one more time
- Reduces the development costs
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SAP **Industry** Solutions



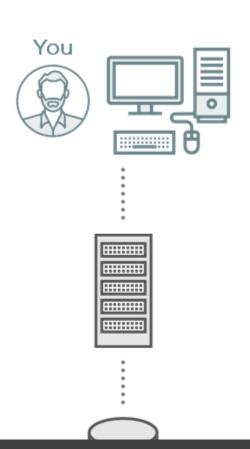




Mercedes AMG McLaren Group FC Bayern München NBA Bank of America Deutsche Bank

Introduction to ABAP

Where Does SAP Store Your Source Code?



ABAP Source Code

```
DATA(result) = 3 + 2.
WRITE result.
```

ABAP Byte Code (ABAP Load)

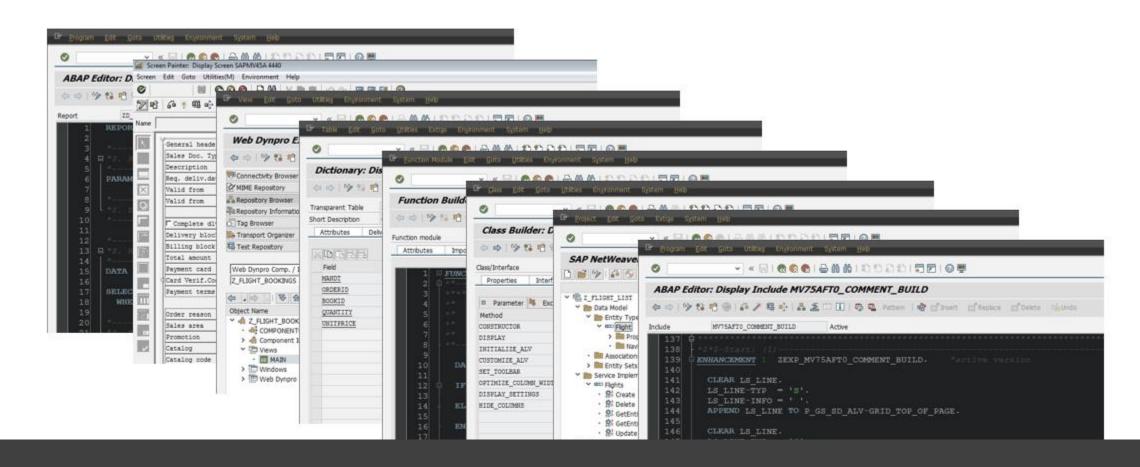
```
...
21 L ccqi CB 0000 0003 0000 0002
25 S WRIB 01 0000
...
```

```
Z_ABAP_DEMO
```

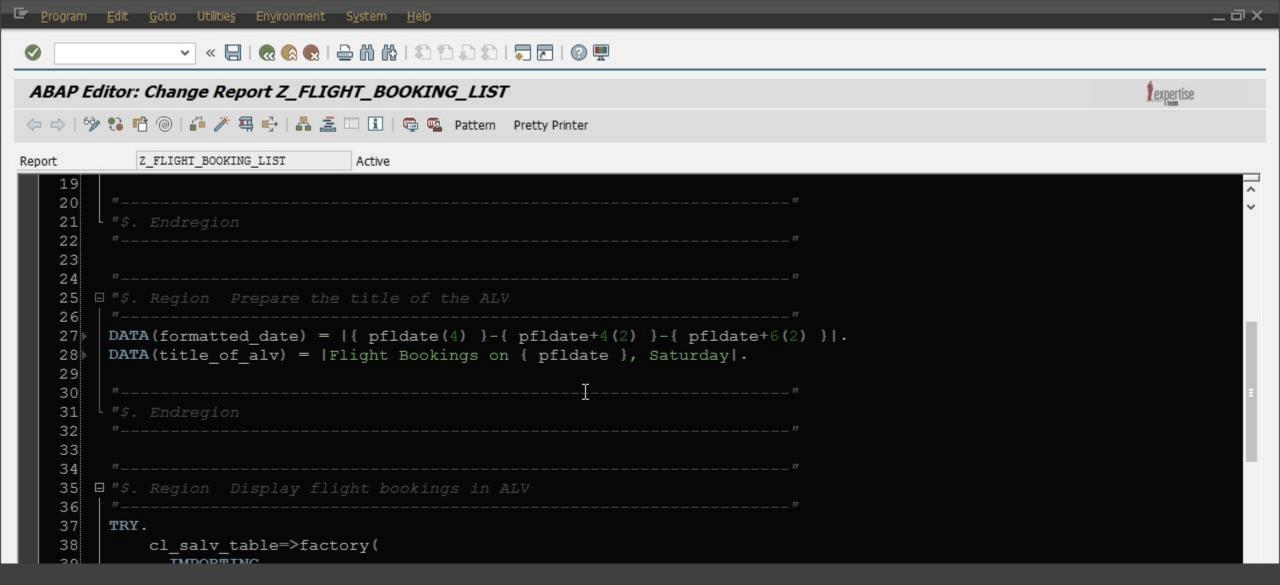
REPOSRC - Report Source Code

ABAP: Behind the Scenes

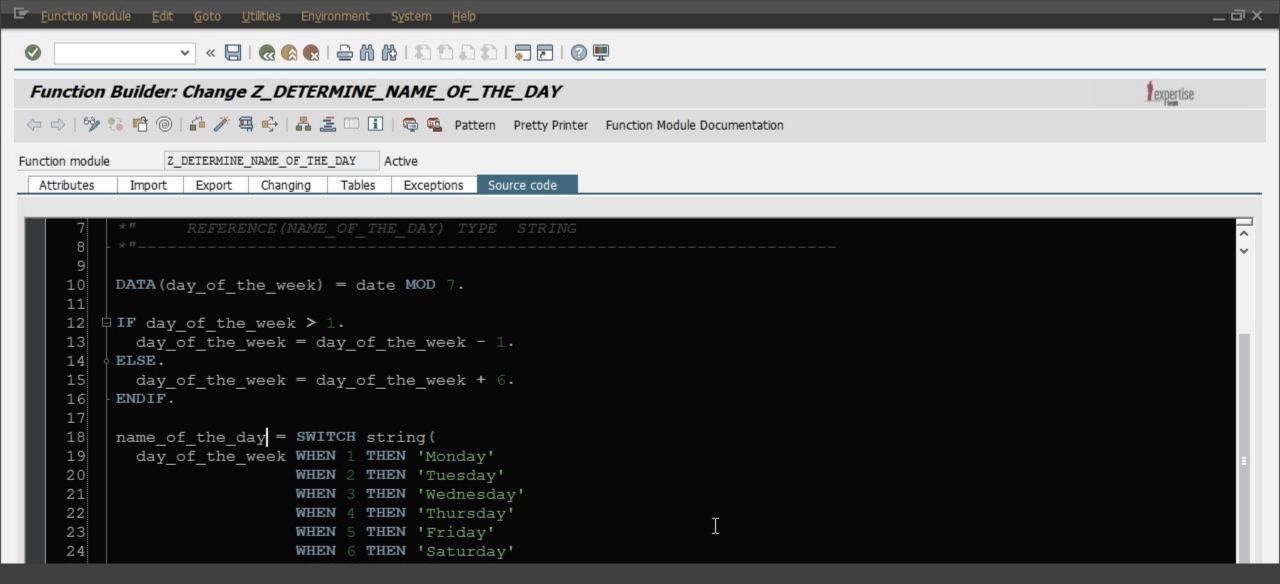
ABAP Workbench Tools



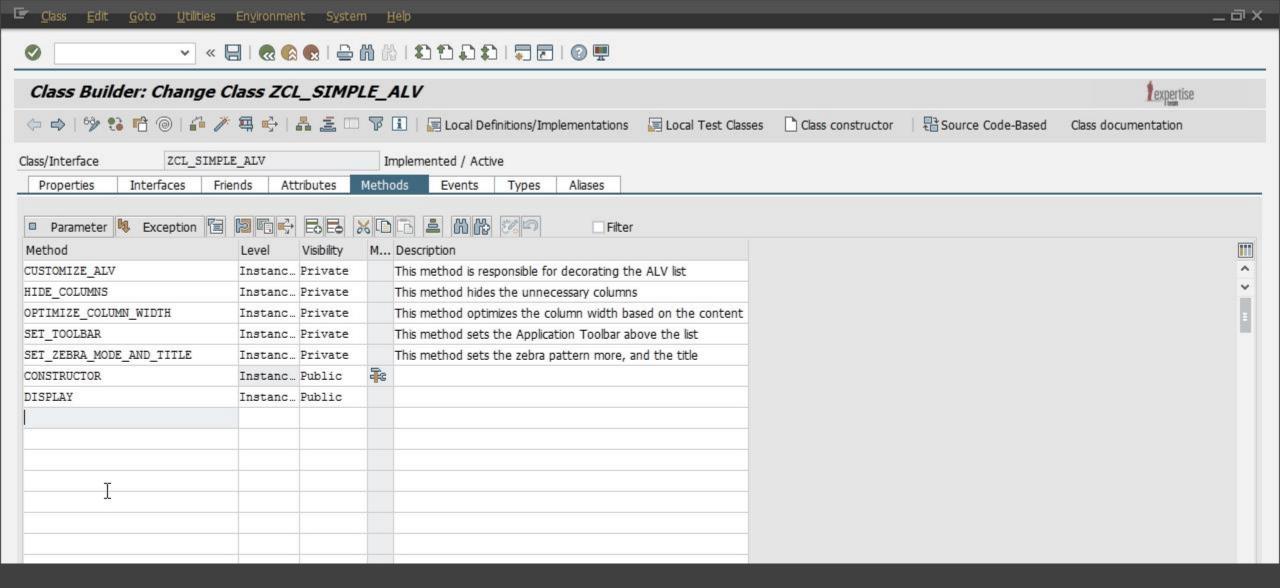
Introducing the ABAP Workbench



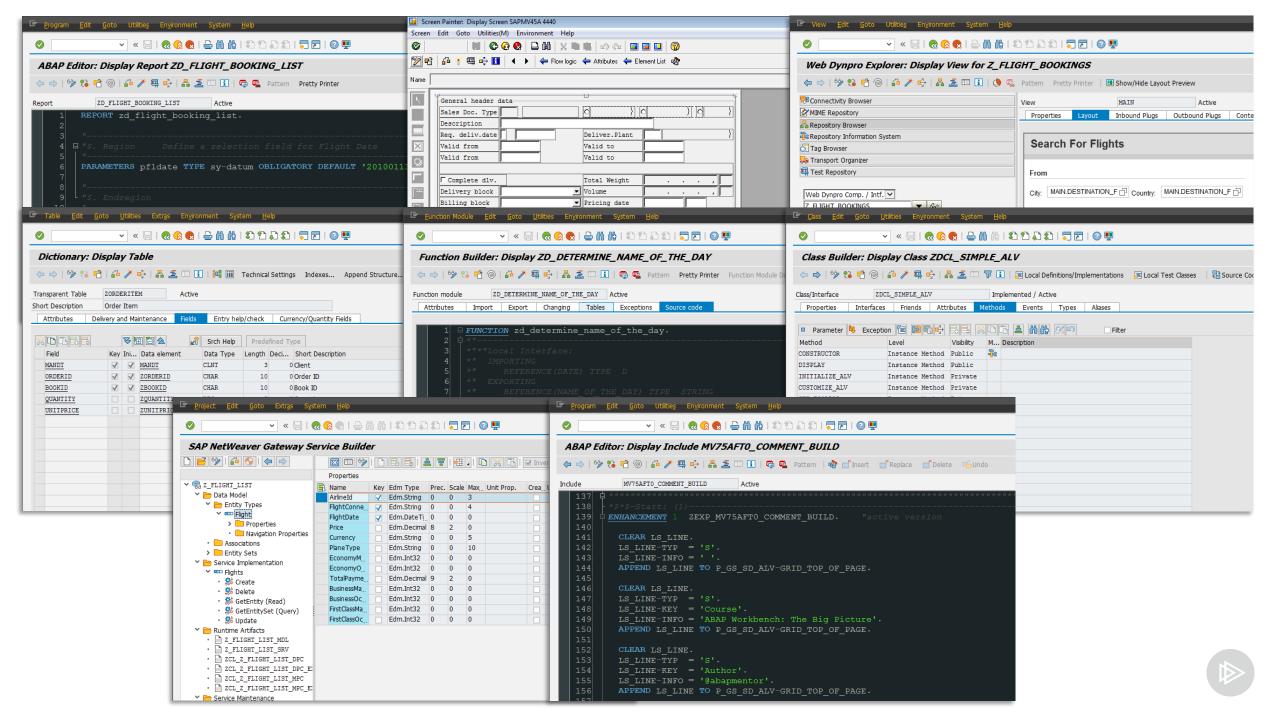
Working with the ABAP Editor



Working with the Function Builder



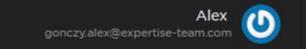
Working with the Class Builder











ABAP Workbench: The Big Picture

by Alex Gonczy

Do you have any idea what is ABAP for, where to write ABAP code, or what are the different IDEs for ABAP? This course introduces ABAP and the different ABAP IDEs through simple examples.

Resume Course

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earning Check

Recommended

Course author



Alex Gonczy

Alex is an ABAP Developer and Trainer with over 4 years of experience. He is also enthusiastic about crossplatform Mobile developments. Lucky, because he can do what he likes.

Course info

Level Beginner

Rating ***** (91)

My rating *****

