



Automatic Quality Code check in S/4 HANA

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Session ID # ASUG82958

About the Speakers



Tamas Praczko

Sr. Application Manager - NRG

Over 24 years of experience with architecting and delivering SAP solution across multiple industries.



Arghadip Kar

Sr. ABAP Developer - NRG

Over 14 years of SAP Development.
Workflow Wizard

Professional Skills

SAP - Architecture



Project Management



Hair loss



Professional Skills

SAP Development



S/4 HANA - Architecture



Making Trouble

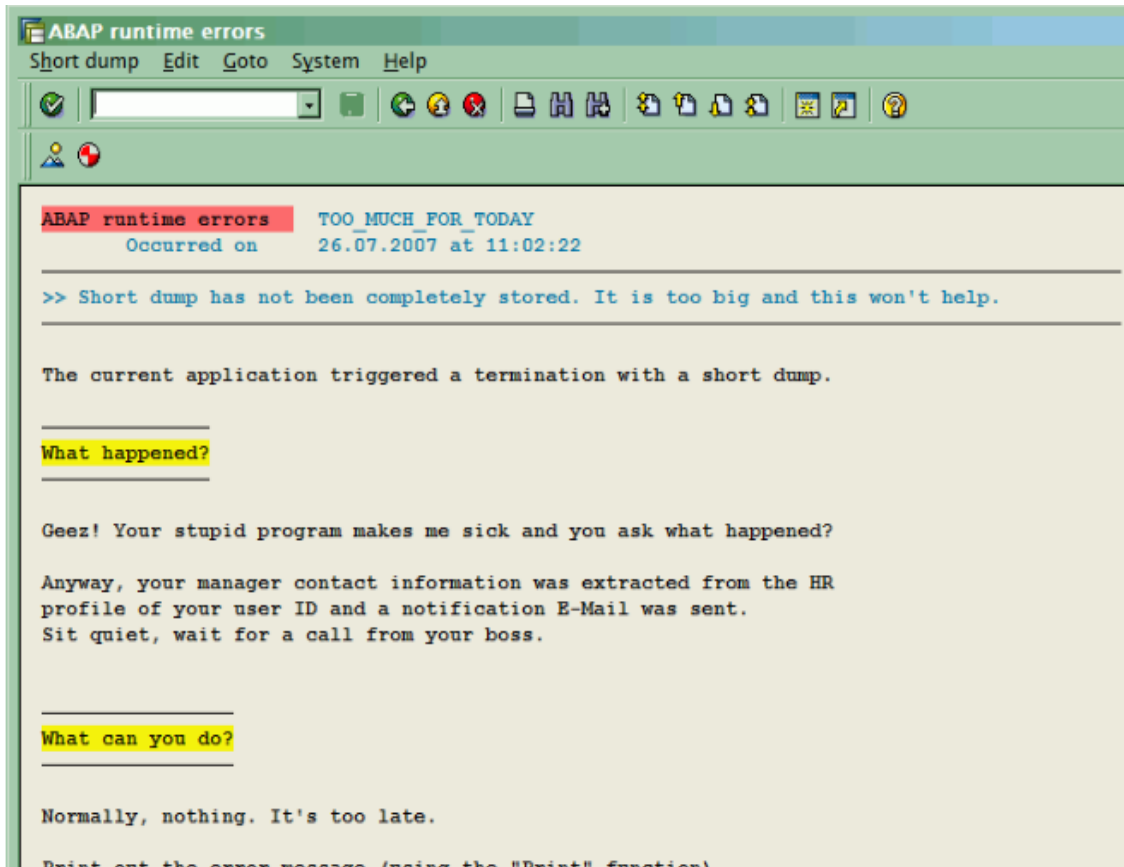


Key Outcomes/Objectives

1. Drawbacks of not doing Quality Check in Coding.
2. Time spent in fixing Quality Issues
3. What Auto QA Check does for you?

Drawbacks of not doing Quality Check in Coding

- Performance issue



The screenshot shows a window titled "ABAP runtime errors" with a menu bar (Short dump, Edit, Goto, System, Help) and a toolbar. The main content area displays the following text:

```
ABAP runtime errors    TOO_MUCH_FOR_TODAY
  Occurred on         26.07.2007 at 11:02:22

>> Short dump has not been completely stored. It is too big and this won't help.

The current application triggered a termination with a short dump.

What happened?

Geez! Your stupid program makes me sick and you ask what happened?

Anyway, your manager contact information was extracted from the HR
profile of your user ID and a notification E-Mail was sent.
Sit quiet, wait for a call from your boss.

What can you do?

Normally, nothing. It's too late.

Print out the error message (using the "Print" function)
```



Drawbacks of not doing Quality Check in Coding

- Testing Issue



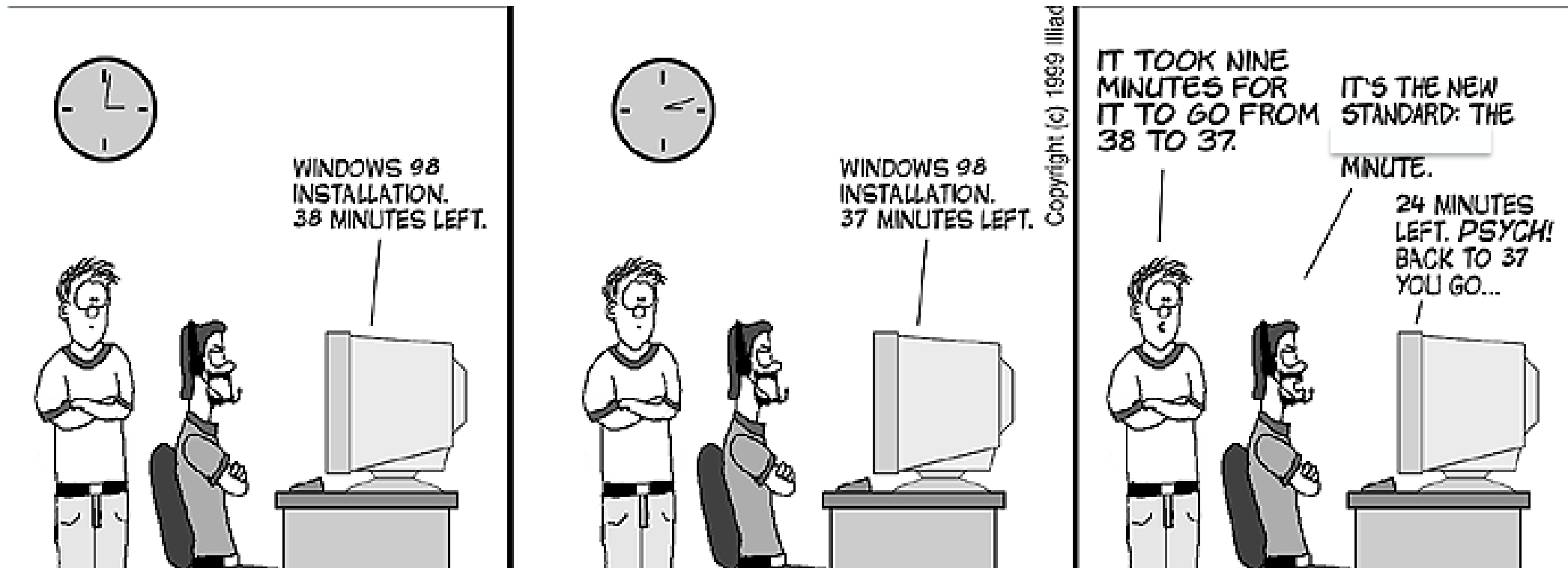
Drawbacks of not doing Quality Check in Coding

- De-scope or Re-scope of work

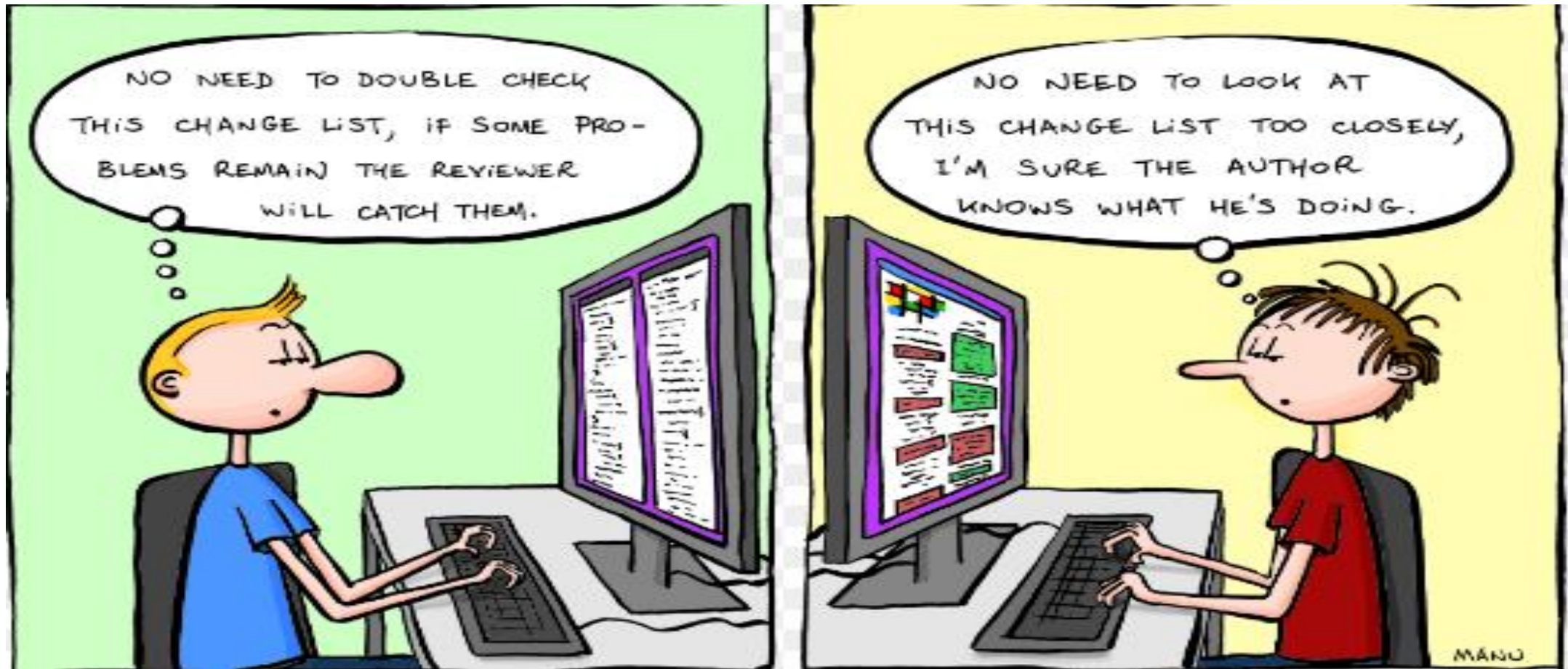


Drawbacks of not doing Quality Check in Coding

- Get the blame from others fault.



Process of Fixing Quality Checks No Way



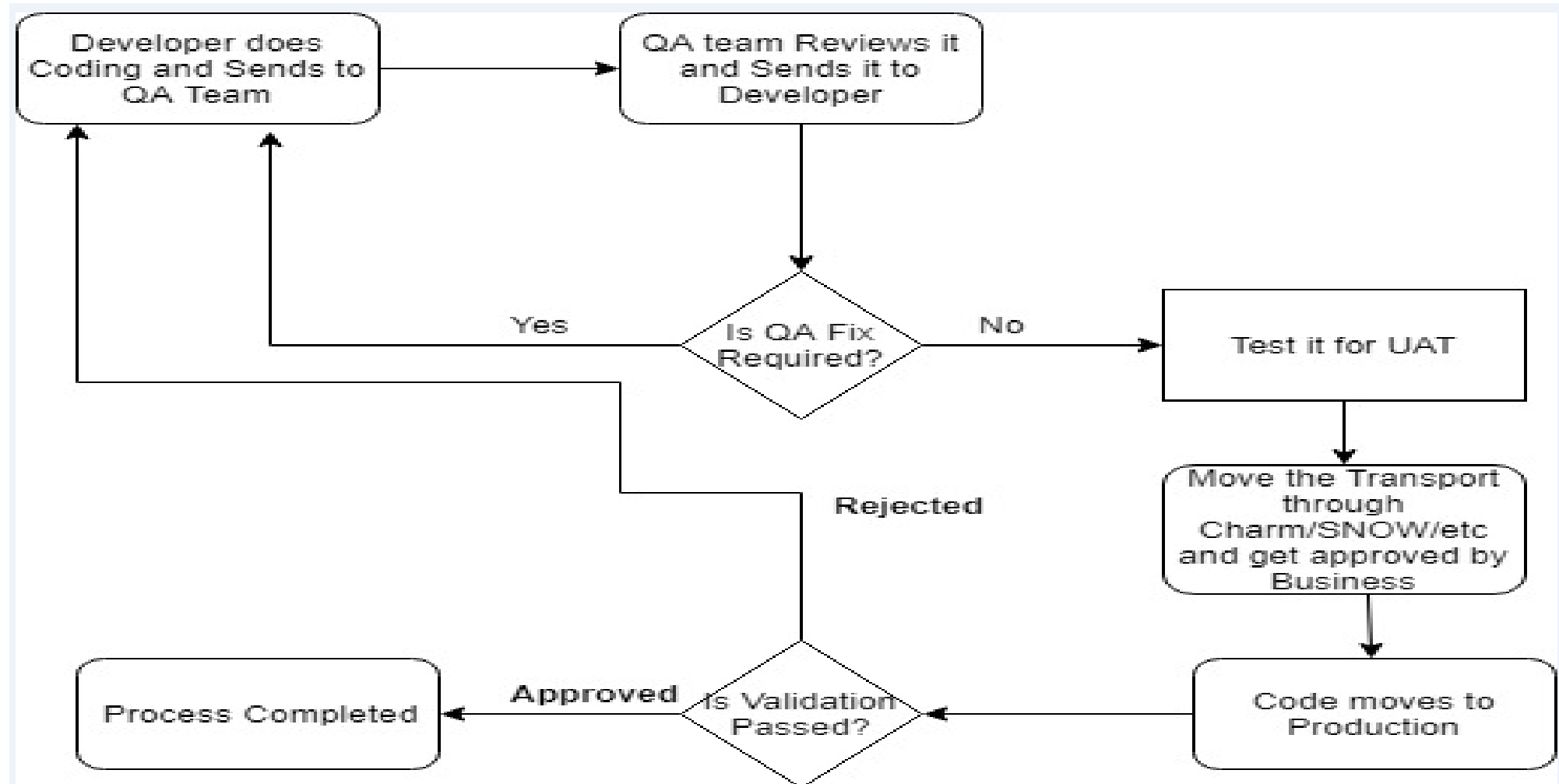
Process of Fixing Quality Checks Highway



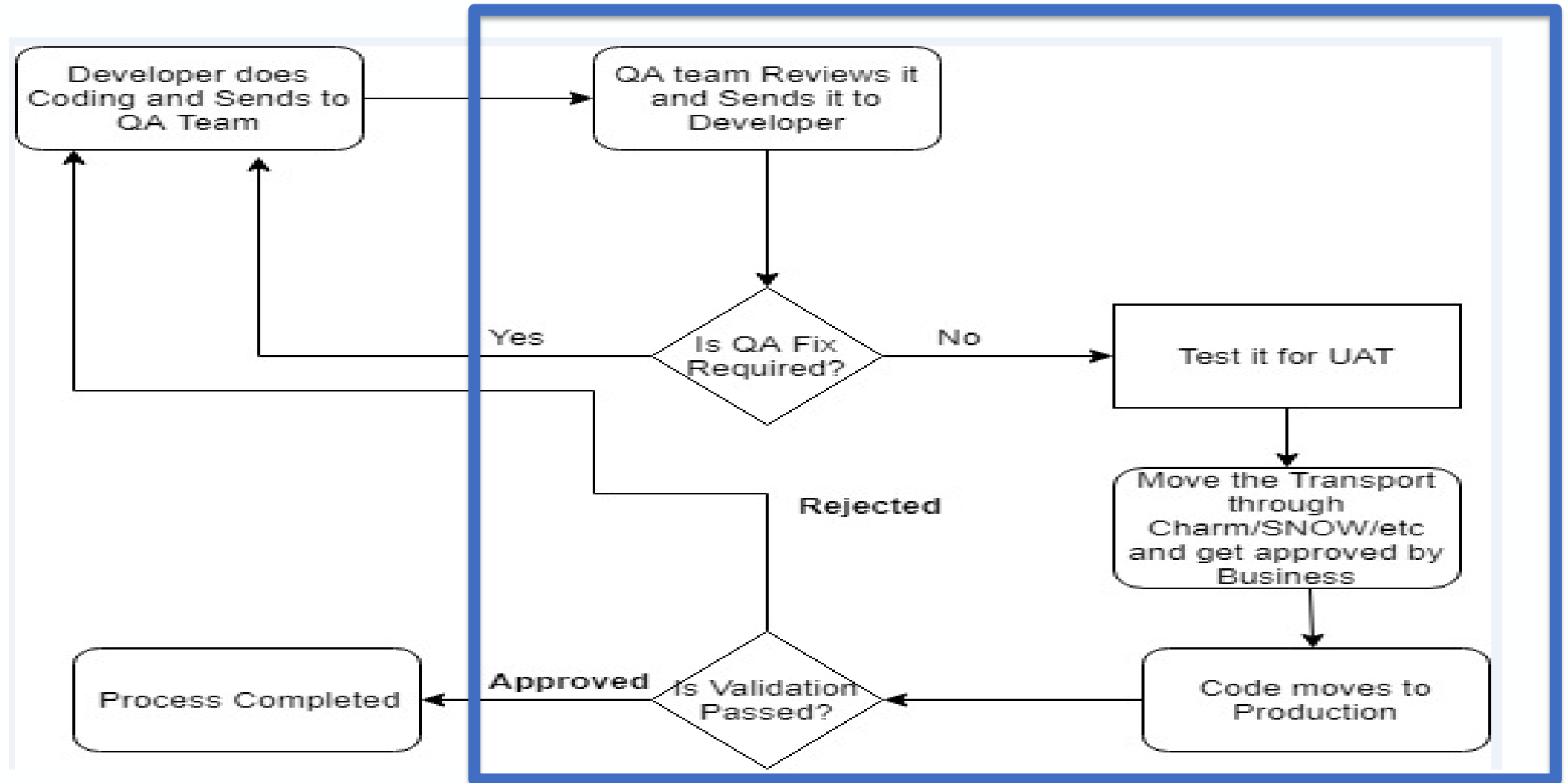
Process of Fixing Quality Checks Smart Way



Process before Automation



Process after Automation

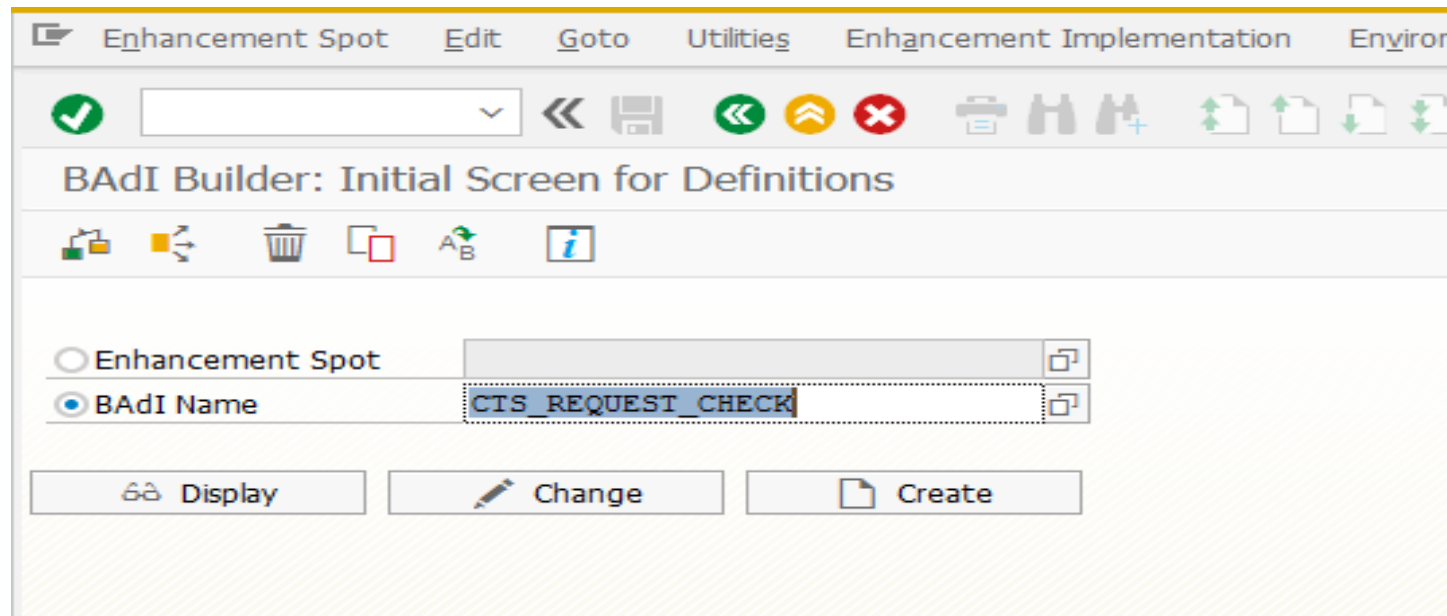


Process of Fixing Quality Checks Optimal Way

- Automate QA Review points while Developers are coding.
- Reduce Ping Pong between QA Team, Testing Team and Developers.
- Prevent a low Quality Code moving to Production.
- Automate Naming Convention and Development guidelines accordingly.

How to do it?

- Create an Implementation in this BADI and enforce your Rules/Restriction so that it does not happen again.



How to do it?

- Sample Table having issue of field not be initial

Table Maintenance (SE11) - Dictionary: Change Table

Transparent Table: ZCMET_TEST (Active)

Short Description: CMET: Approval Control Table

Attributes | Delivery and Maintenance | **Fields** | Entry help/check | Currency/Quantity Fields

Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0	Client
PLANT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WERKS_D	CHAR	4	0	Plant
APPROVID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SUBNAME	CHAR	12	0	User Name in User Master Record
APPROVER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	APPROVER	CHAR	12	0	Service Entry Sheet Approver Short Name
REL_CODE_LOW	<input type="checkbox"/>	<input type="checkbox"/>	RGCO	CHAR	2	0	Release code
REL_CODE_HIGH	<input type="checkbox"/>	<input type="checkbox"/>	RGCO	CHAR	2	0	Release code
NAME	<input type="checkbox"/>	<input type="checkbox"/>	CHAR50	CHAR	50	0	Comment

How to do it?

- Sample Table having issue of Data class not equal USER

Settings Edit Goto System Help

Dictionary: Maintain Technical Settings

Revised<->Active

Name: ZCMET_TEST Transparent Table

Short Descript.: CMET: Approval Control Table

Last Changed: 00950262 04-21-2019

Status: Actv. Saved

General Properties DB-Specific Properties

Logical Storage Parameters

Data Class	APPL0	Master data, transparent tables
Size Category	0	Expected data records 0 to 3,600

Buffering

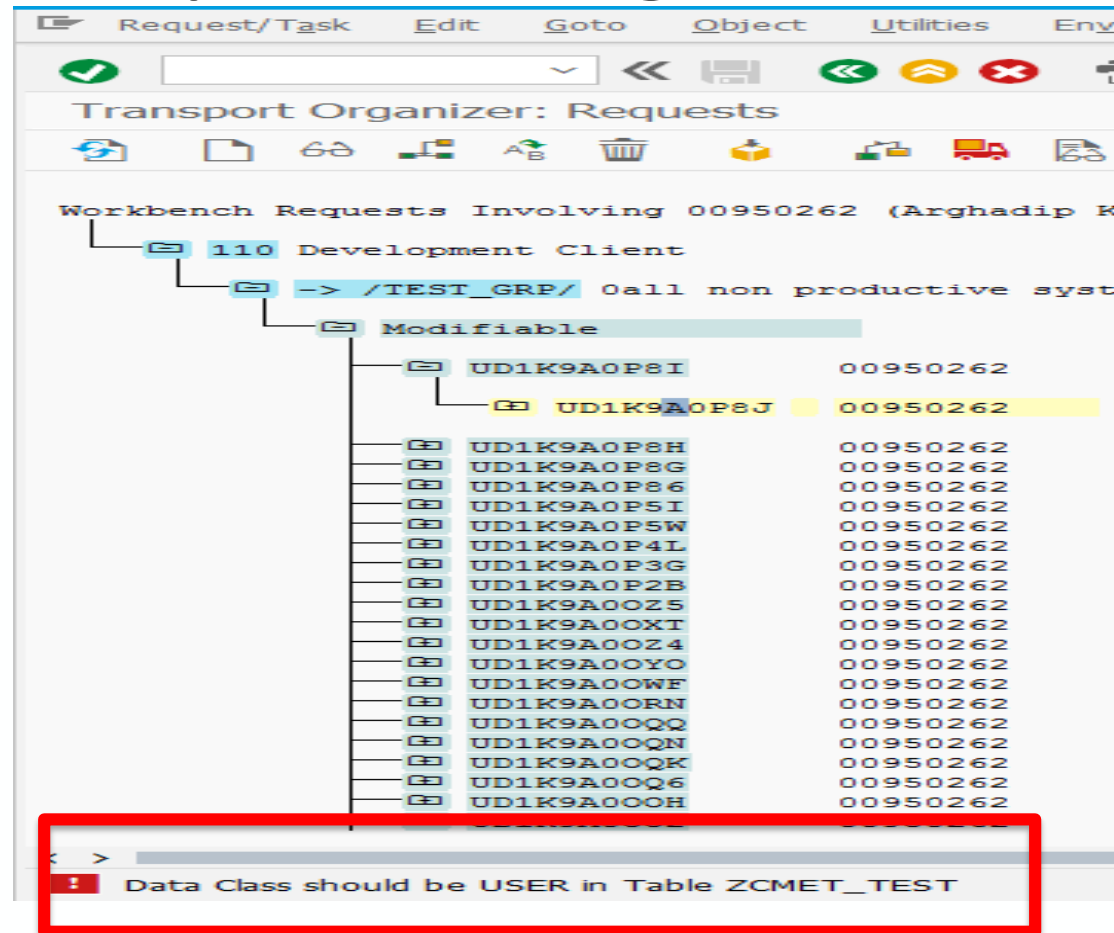
Buffering Not Allowed

Buffering allowed but switched off

Buffering Activated

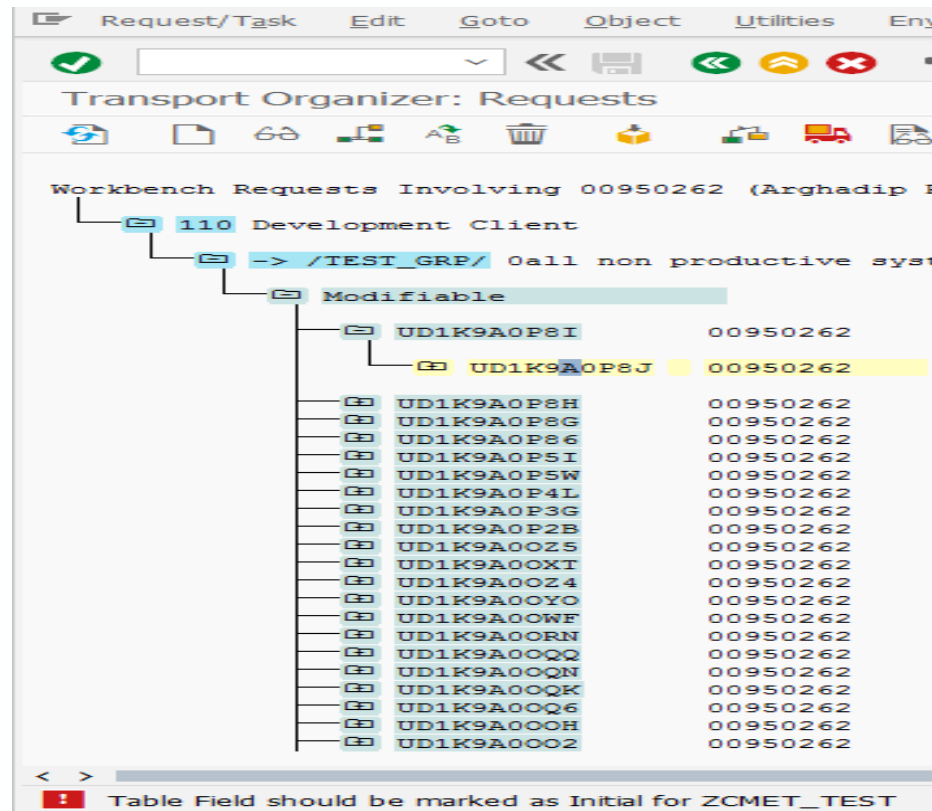
How to do it?

- When we transport it we get below error message.



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- When we transport it we get below error message.



How the Automation helped?

- Enforced our QA Review automatically.
- Enforced Transport Dependency checks are done.
- Enforced our Development Standards maintained
- Enforced our Naming Convention was maintained.

Lessons Learned

- Everything is possible if you think there should be a way out.
- For sure make filters only to include custom objects which have Namespace(Z* or Y*)
- Pilot this process with a Single User ideally the Developer who is building it.

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Q&A

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