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System: S/4HANA Implementation Project

## End to End S/4 HANA Scenario: IDoc Processing Report

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### Functional Information (prepared by Functional Consultant and UX Designer)

We have implemented S/4HANA OP release last month in our company “**anubhavtrainings.com**”, We have posted IDocs from legacy systems to S/4 system. We want to design and develop responsive Fiori Applications to display the IDoc processing records and a dashboard for users to analyze the issue. Below document describes the design and detailed requirement.

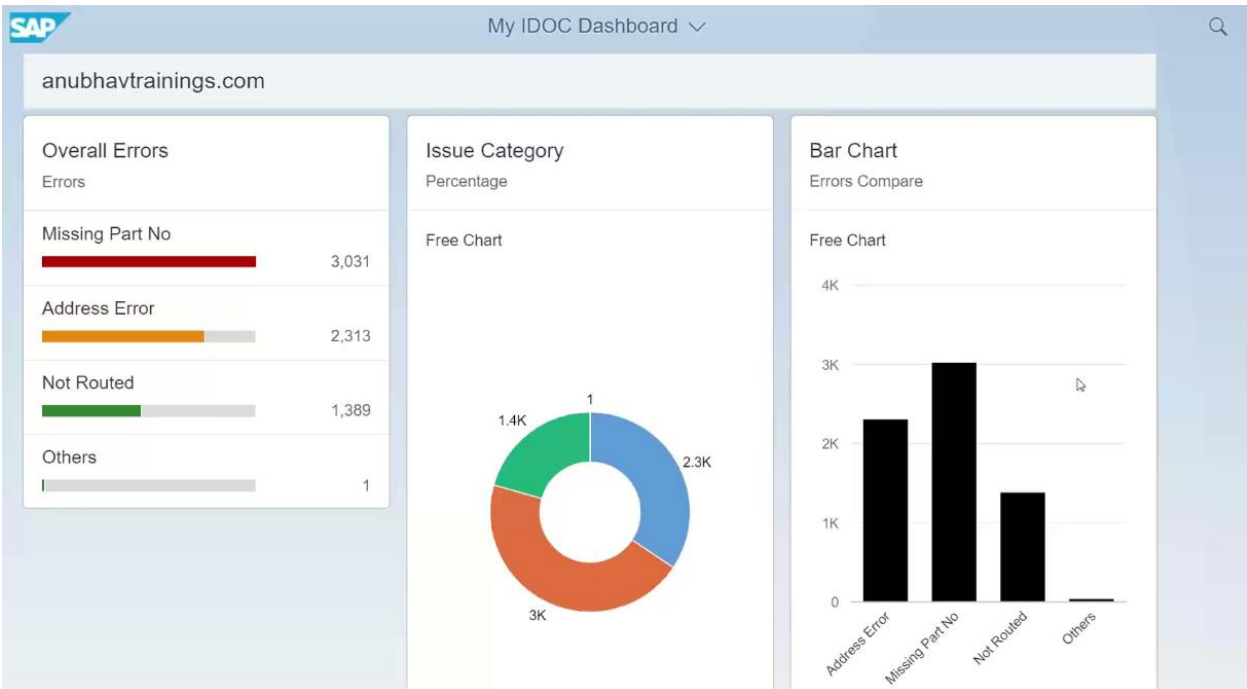
#### Tables used:

Following database tables are storing IDoc control records

Table Name	Purpose	Key
EDIDC	IDoc Master Record	Docnum
EDIDS	IDoc Status record (use latest record for Doc Number)	Docnum, Counter

#### UI Mockups:

1. A dashboard displaying summary of issues in an analytical app with cards.
  - a. Card 1: display total number of issues in a bar card list
  - b. Card 2: display total issues in a donut chart



## Implementation Information (prepared by Architect)

### How to read data?

#### Read for Analytical App

- Read all the IDoc Control records from EDIDC table (docnum is key).

**Data Browser: Table EDIDC Select Entries** 8

Table: **EDIDC**  
Displayed Fields: 13 of 49 Fixed Columns: 2 List Width 0250

	MANDT	DOCNUM	DOCREL	STATUS	DOCTYP	DIRECT	RCVPR	RCVPR	RCVPR	RCVSAD	RCVSM	RCVSNA
<input type="checkbox"/>	800	0000000000198012	750	3		1	SF4CLNT800	LI	SAPS44			
<input type="checkbox"/>	800	0000000000198017	750	3		1	SF4CLNT800	LI	SAPS44			
<input type="checkbox"/>	800	0000000000198018	750	3		1	SF4CLNT800	LI	SAPS44			
<input type="checkbox"/>	800	0000000000198019	750	3		1	SF4CLNT800	LI	SAPS44			
<input type="checkbox"/>	800	0000000000198020	750	68		2	SF4CLNT800	LS	SAPS44			
<input type="checkbox"/>	800	0000000000198021	750	53		2	SF4CLNT800	LS	SAPS44			
<input type="checkbox"/>	800	0000000000198022	750	53		2	SF4CLNT800	LS	SAPS44			
<input type="checkbox"/>	800	0000000000198023	750	53		2	SF4CLNT800	LS	SAPS44			

- For each document number from EDIDC, we have Status records in EDIDS, Read the record with highest Counter value.
- Once the record with highest counter value is read, find the error reason based on 2 fields of record STAMID and STAMNO from EDIDS. Based on these two fields determine the category of issues as per below table, all the other combination goes into category 'Others'.

**Data Browser: Table EDIDS Select Entries 192.993**

Table: EDIDS  
Displayed Fields: 9 of 9 Fixed Columns: 4 List Width: 0250

DOCNUM	LOGDAT	LOGTIM	COUNTER	CREDAT	CRETIM	STATUS	STAMID	STAMNO
0000000000198012	17.03.2018	17:05:44	0000000000000000	17.03.2018	17:05:44	1	CASH_MSG	095
0000000000198012	17.03.2018	17:05:44	0000000000000001	17.03.2018	17:05:44	30	TAX_TXJCD	101
0000000000198012	17.03.2018	17:05:44	0000000000000002	17.03.2018	17:05:44	3	V1	384
0000000000198017	17.03.2018	17:05:44	0000000000000000	17.03.2018	17:05:44	1	CASH_MSG	095
0000000000198017	17.03.2018	17:05:44	0000000000000001	17.03.2018	17:05:44	30	TAX_TXJCD	101
0000000000198017	17.03.2018	17:05:44	0000000000000002	17.03.2018	17:05:44	3	V1	384
0000000000198018	17.03.2018	17:05:44	0000000000000000	17.03.2018	17:05:44	1	CASH_MSG	095
0000000000198018	17.03.2018	17:05:44	0000000000000001	17.03.2018	17:05:44	30	TAX_TXJCD	101
0000000000198018	17.03.2018	17:05:44	0000000000000002	17.03.2018	17:05:44	3	V1	384
0000000000198019	17.03.2018	17:05:44	0000000000000000	17.03.2018	17:05:44	1	CASH_MSG	095
0000000000198019	17.03.2018	17:05:44	0000000000000001	17.03.2018	17:05:44	30	TAX_TXJCD	101
0000000000198019	17.03.2018	17:05:44	0000000000000002	17.03.2018	17:05:44	3	V1	384
0000000000198020	17.03.2018	17:05:44	0000000000000000	17.03.2018	17:05:44	74	V1	157
0000000000198020	17.03.2018	17:05:44	0000000000000001	17.03.2018	17:05:44	56	CASH_MSG	332
0000000000198020	17.03.2018	17:05:44	0000000000000002	17.03.2018	17:05:44	69	CASH_MSG	184
0000000000198020	17.03.2018	17:05:44	0000000000000003	17.03.2018	17:05:44	56	TAX_TXJCD	307
0000000000198020	17.03.2018	17:05:44	0000000000000004	17.03.2018	17:05:44	56	CASH_MSG	414
0000000000198020	17.03.2018	17:05:44	0000000000000005	17.03.2018	17:05:44	69	CASH_MSG	183
0000000000198020	17.03.2018	17:05:44	0000000000000006	17.03.2018	17:05:44	69	CASH_MSG	183

STAMID	STAMNO	Description	Category
CASH_MSG	095	No Response from AS400	Not Routed AS400
V1	384	Sales Unit is not defined for Item	Missing Part number Both
TAX_TXJCD	101	No Jurisdiction code could be determined	Address Error SAP
VG	140	Partner Number for customer partner function WE do not exist	Ship-to LOC ID not setup Both
			Others

- Aggregate (SUM) the issues pertaining to each of category and display in a list report (bar) type.

#### Read for Detailed List Report – Smart Filter App

- Read following fields from join of different tables

Field Name	Table Name
DOCNUM	EDIDC
CREDAT	EDIDC
CRETIM	EDIDC
STATUS	EDIDS
STATXT	EDIDS
CATEGORY	Determined @ runtime

## Implementation Information (prepared by Developer - Anubhav)

1. Create an interface view to determine the maximum counter per document – ZATS\_I\_EDIDS\_MAX
2. Create an interface CDS view to join this information with status (EDIDS) to return only max record value out – ZATS\_I\_EDIDS\_RECORDS
3. Create a Composite CDS view to join the status record with control record and determine the category of issues as per table. Add virtual table column for indicator of each type of issue as 1 (for calculation), so later aggregation can be done. Also, add a column which displays the category as text (user readable). – ZATS\_CO\_IDOC\_CAT Hint: type cast data ***cast( 1 as abap.int4 ), cast( msgvariables as abap.char(255)) as msgv1.***