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Created by: Anubhav Oberoy

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.

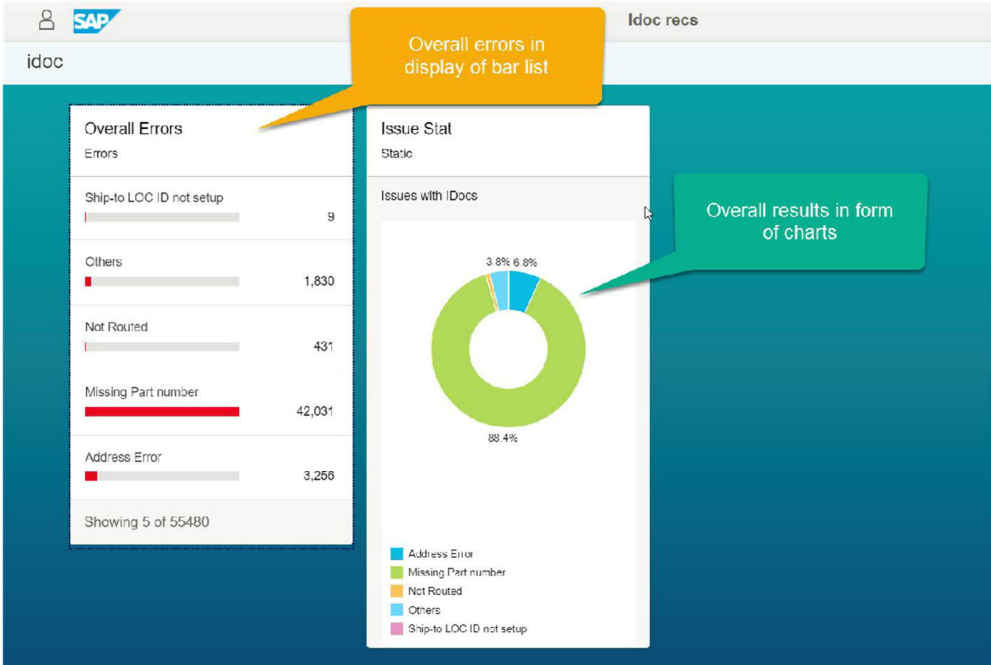
Tables used:

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



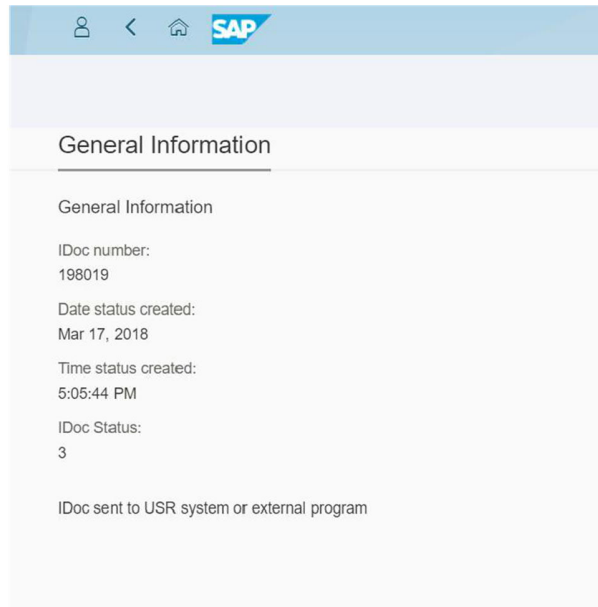
2. A list report to display detailed reason of messages.

provide 2 search fields

display following columns

IDoc number	Date status created	Time status created	IDoc Status	statid
000000000190012	3/17/18	5:05:44 PM	3	IDoc sent to USR system or external program
000000000190017	3/17/18	5:05:44 PM	3	IDoc sent to USR system or external program
000000000190016	3/17/18	5:05:44 PM	3	IDoc sent to USR system or external program
000000000190019	3/17/18	5:05:44 PM	3	IDoc sent to USR system or external program
000000000190020	3/17/18	5:05:44 PM	68	IDoc flagged for deletion
000000000190021	3/17/18	5:05:44 PM	53	Standard PO created under the number 4500000008
000000000190022	3/17/18	5:05:44 PM	53	Standard PO created under the number 4500000008
000000000190023	3/17/18	5:05:44 PM	53	Standard PO created under the number 4500000008
000000000190012	3/17/18	5:05:44 PM	70	IDoc sent to USR system or external program
000000000190013	3/17/18	5:05:44 PM	3	IDoc sent to USR system or external program
000000000190014	3/17/18	5:05:44 PM	70	IDoc sent to USR system or external program
000000000190015	3/17/18	5:05:44 PM	3	IDoc sent to USR system or external program
000000000190016	3/17/18	5:05:44 PM	70	IDoc sent to USR system or external program
000000000190017	3/17/18	5:05:44 PM	70	IDoc sent to USR system or external program
000000000190018	3/17/18	5:05:44 PM	3	IDoc sent to USR system or external program
000000000190019	3/17/18	5:05:44 PM	3	IDoc sent to USR system or external program

Navigation to next screen provided



General Information

General Information

IDoc number:
198019

Date status created:
Mar 17, 2018

Time status created:
5:05:44 PM

IDoc Status:
3

IDoc sent to USR system or external program

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: 23 of 49 Fixed Columns: 2 List Width 0250

MANDT	DOCNUM	DOCREL	STATUS	DOCTYP	DIRECT	RCVPOR	RCVPRT	RCVPRN	RCVSAD	RCVGMN	RCVSNA
800	0000000000198012	750	3		1	SF4CLNT800	LI	SAPS44			
800	0000000000198017	750	3		1	SF4CLNT800	LI	SAPS44			
800	0000000000198018	750	3		1	SF4CLNT800	LI	SAPS44			
800	0000000000198019	750	3		1	SF4CLNT800	LI	SAPS44			
800	0000000000198020	750	68		2	SF4CLNT800	LS	SAPS44			
800	0000000000198021	750	53		2	SF4CLNT800	LS	SAPS44			
800	0000000000198022	750	53		2	SF4CLNT800	LS	SAPS44			
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'.

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System: S/4HANA 1610 Implementation Project

Data Browser: Table EDIDS Select Entries 192.993

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

DOCNUM	LOGDAT	LOGTIM	COUNTR	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

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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 display's 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
4. *Messages should be replaced with the help of CDS table function.
5. Create consumption view for final consumption for Analytical App (displaying aggregated count of issues) and list report to display the number of issues.