








AD – Track 2 - smart.way to VIEW
developing a reusable way of
accessing U.N.Own Domino Data

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-  Me & Myself
-  Description of problem (presenting unknown data)
-  Existing solutions (and their problems)
-  Technical basics (technologies / restrictions)
-  Digging in the enhancements (Code & Example)
-  Summarizing our “Lessons Learn”
-  Links / Ressources / Examples








- 🐉 Founder of smartiX (purely domino-based consulting)
- 🐉 Born, grew up, studied and partly working in Stuttgart (Germany)
- 🐉 First Notes installation with floppies (lots of floppies)
- 🐉 Fortune 500 => S&M Business
- 🐉 LWF, Dom.Doc, Web, LEI, XML, Mobile integration...
- 🐉 PCLP: R4, R5, R6, Collaborative Solutions AD & SA


- 🐉 Collaboration means cooperation => member of Penumbra Group, B-KH, DNUG and BDU

- 🐉 250 % convinced of benefit of groupware-solutions on platform Lotus Domino to successfully enhance your business
- 🐉 Email: Lier@smartix.de



-  Enhancing Intranet with data stored in R4-based databases (manuals, standards & procedures)
-  No programmatic access to those databases => U.N. Own structure & content
-  Strong need to display information in a:
 - Identical,
 - Well conformed,
 - Easy to handle way
-  Read Access, Sums, Date / Time, Icons, Categories, Thousands of documents
-  PERFORMANCE !!!!!!!!!!!!!!!!!!!!!!!!!!!!!



 \$\$ViewTemplate (has to be copied in each database...)


 Sandbox:

- Advanced View Techniques on Domino
 - Code in Database (multiple instances.. No programmatic access)
- Creating Non Notes Views
 - Need to know Design
 - Performance...
- WebAgentsViews
 - Database-related (Code)
 - Long response times, static...

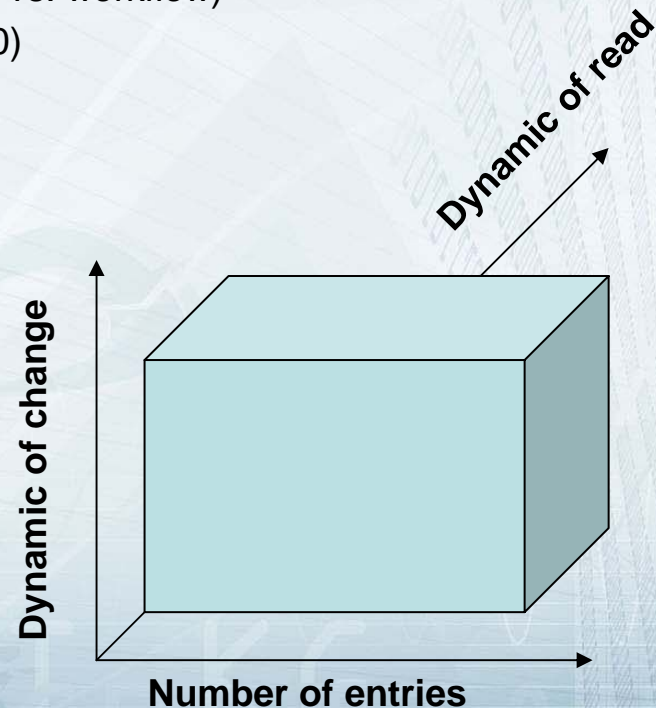
 Product to buy:

- Sorry, no publicity... but expensive ☹☹☹



 Description of Situation:

- Content in views can be:
 - Static vs. dynamic (handbook vs. discussion-db)
 - Identical vs. personal access (handbook vs. workflow)
 - Little no. vs. many entries (200 or 20.000)
 - Categorized vs. flat ...



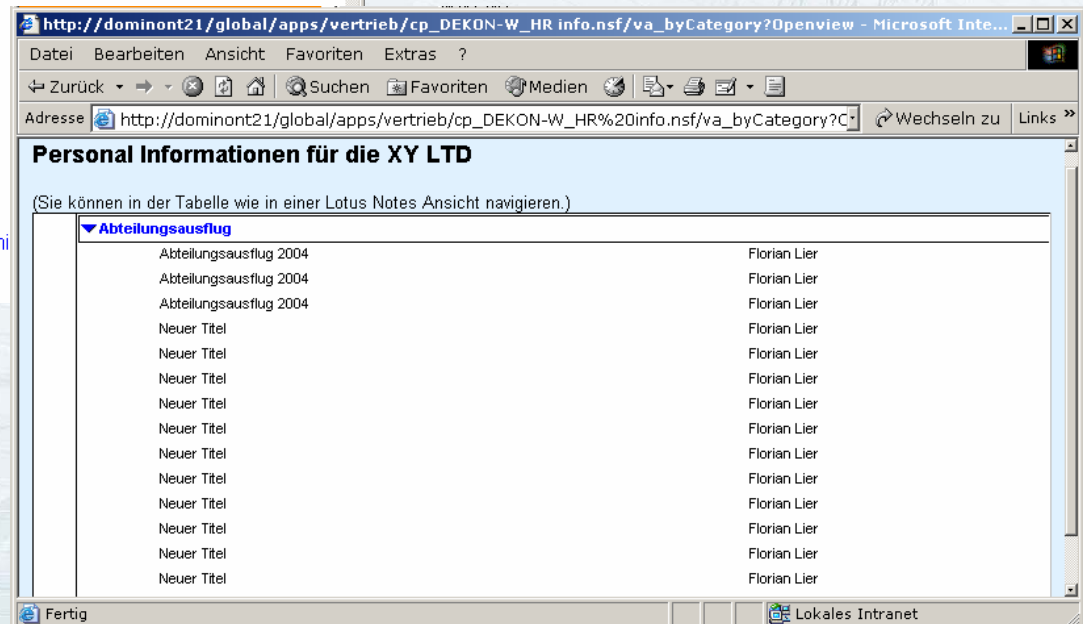
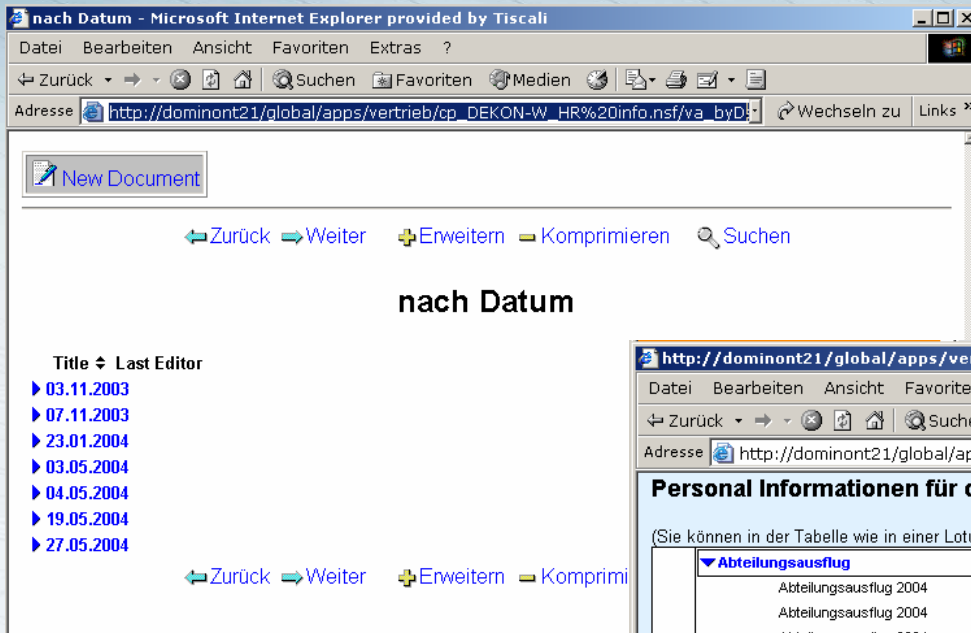
 Useful technologies:

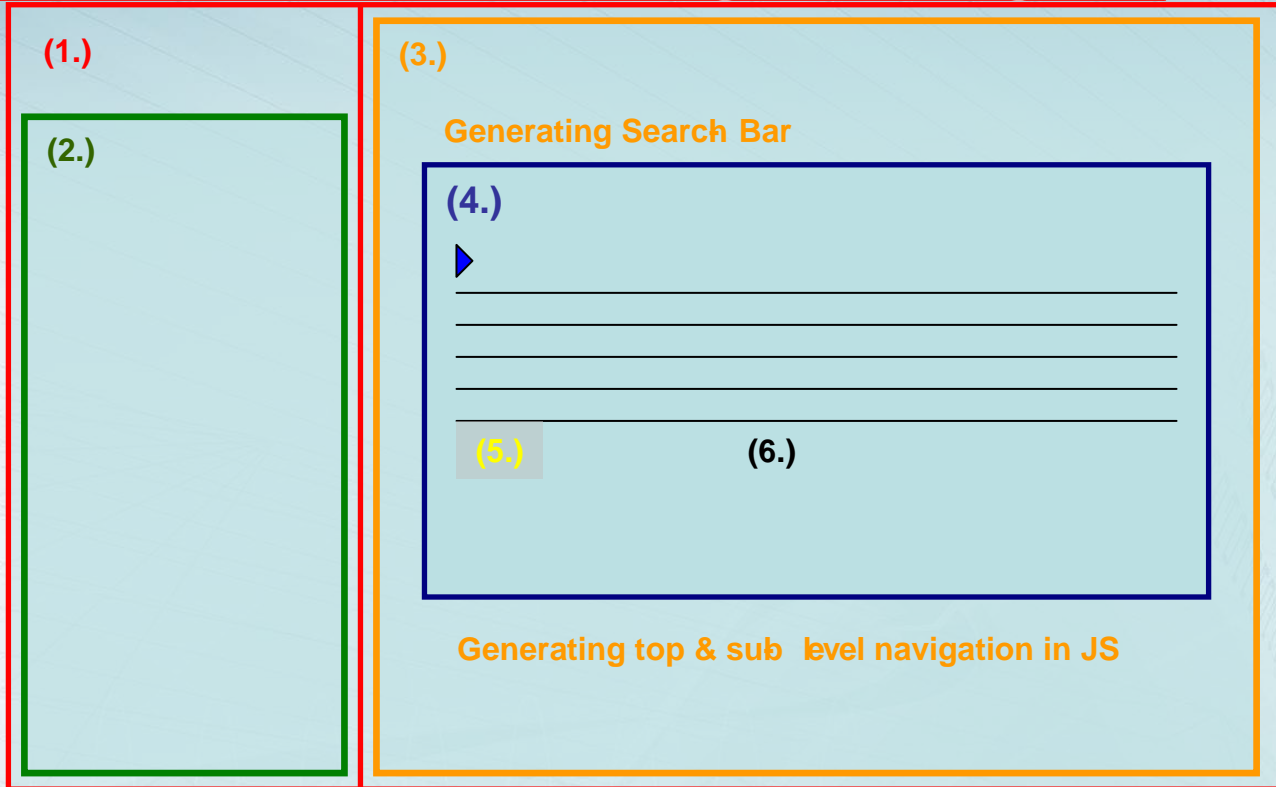
- CSS (for the look and feel)
- HTML (for the content)
- JavaScript (for the programmatic logic)
- LotusScript / Java for the collection (NotesViewEntry-Classes)
- LS / Java for the communication with user (print, writeln)

 => How to combine these elements efficient?

- Grab advantages of each...
- Circumvent the disadvantages as good as possible







1.) Frameset (@Formula => HTML) 3.) LS Agent (printing HTML & JS) (calling 4)

2.) Form (@Formula => HTML) 4.) LS Agent (printing View Content as HTML, JS, CSS) !! CACHING

5.) JS => logic, CSS => Layout 6.) Embedded JS Page contains functions



- 🐉 CGI to hand over Parameter (ATTENTION “\”)
 - See URL
- 🐉 Dynamic frameset (breaking down in elements)
 - Formula Language transforms content to HTML
- 🐉 Domino-CGI-Variables to control View (Count, Start...)
- 🐉 Profile-documents to generate CSS in pages !!
 - Example
- 🐉 Page to embed JS-Functions (global)
 - Example
- 🐉 NotesViewNavigator / Entries to read content
 - Date, Icons, Numbers, Sums !! Running Number !!
- 🐉 Domino-Server for caching (fast results)
 - Example
- 🐉 LS-Classes to control function (public / private & handle of Content)

- 🐉 Integration HTML / JS (Treat content as HTML)
- 🐉 Integrate Profile-Information in CSS (almost page)
- 🐉 Passing Variables to the frontend (JS in LS)
- 🐉 Caching view-content (dirty – but fast) (it really works !! BUGS !!)
- 🐉 Show what the user is allowed to see (run on behalf of...)
- 🐉 Data / Numbers... not really possible to identify – all numbers
- 🐉 Icons – Domino limitations.. (`_A:=value; _A`)
- 🐉 Writing counters... Impossible ?? – (NO – YES – NO)



- 🐉 We are dependent from source-code of developer... ☹... ☹... ☹
- 🐉 Do not generate empty columns !! (ICONS, Date..., numbers)
- 🐉 Categorization by “Date” is bad... @Text(Date) is much better
- 🐉 Error-Handling is very important !! Do never ever hard-code link to any Error-logging-database 😊...😊...😊
- 🐉 Caching data (if possible) improves performance a lot....
- 🐉 200 documents fast, but lot of pages... 400 documents seems to be best 😊...😊...😊
- 🐉 Ä, Ö, Ü, ä, ö, ü in categories are really “bad ideas” ☹... ☹... ☹
- 🐉 Be careful with &UserName= CGI-Variable ☹... ☹... ☹
- 🐉 Undocumented error-log-options are really cool stuff



```

str_Err      = str_Err & "Error:           "           & Error           & Chr(10)
'### Error-Code:
str_Err      = str_Err & "Code:          "           & Cstr(Err())     & Chr(10)
'### Error-Line:
str_Err      = str_Err & "Line:         "           & Erl()           & Chr(10)
'### Current Function:
str_Err      = str_Err & "Function:      "           & Lsi_info(2)     & Chr(10)
'### Calling LS-Function:
str_Err      = str_Err & "called by:    "           & Lsi_info(12)    & Chr(10)
'### Current Module:
str_Err      = str_Err & "Module:       "           & Lsi_info(3)     & Chr(10)
'### LS-Version:
str_Err      = str_Err & "LS-Version:    "           & Lsi_info(6)     & Chr(10)
'### LS-Memory allocated:
str_Err      = str_Err & "allocated Memory:  " & Lsi_info(50)    & Chr(10)
'### LS-Memory allocated from OS:
str_Err      = str_Err & "allocated Memory OS:  " & Lsi_info(51)    & Chr(10)
'### LS-blocks used:
str_Err      = str_Err & "blocks used:      "           & Lsi_info(52)    & Chr(10)
    
```



Competitors:

- <http://www.10.lotus.com/idd/sandbox.nsf/ecc552f1ab6e46e4852568a90055c4cd/b611faeb15138c0a85256dbf0052b24c?OpenDocument&Highlight=0,View,Web>
- <http://www.10.lotus.com/idd/sandbox.nsf/ecc552f1ab6e46e4852568a90055c4cd/14b06bb8669d490485256ca20052bdc1?OpenDocument&Highlight=0,View,Web>
- <http://www.10.lotus.com/idd/sandbox.nsf/ecc552f1ab6e46e4852568a90055c4cd/8f9d0d9247c1379d85256a0e0047d051?OpenDocument&Highlight=0,View,Web>
- <http://www.10.lotus.com/idd/sandbox.nsf/ecc552f1ab6e46e4852568a90055c4cd/530cf440b8deb01300256bde0031a0ff?OpenDocument&Highlight=0,View,Web>

This presentation (ATTENTION LINUX => CASE SENSITIVE):

- <http://samson.smartix.de/scanconference/examples.nsf/smartview> (from Tuesday evening, 23:45)

Rocky Oliver

- Undocumented and wonderful Error Log Features

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