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SESSION

Plan



Requirements definition

- 1 Define requirements
- 2 Prioritize requirements

Functional analysis

- 1 Prerequisite
- 2 9 steps method
 - Visualize the requirement
 - Describe information
 - 3. Define relationships between data types
 - Effectively storing information 4.
 - 5. Determine the data flow directions
 - Define data access point 6.
 - 7. Define criteria for data recovery
 - Define relational behaviors 8.
 - 9. Define the information display





Part A

Requirements definition

Focus first on the "What"?

"The value of an idea lies in the using of it."

- Thomas A. Edison



Define requirements









Business analyst

And

Functional analyst

Understand business process

- Read documentation if exists
- Identify super users or product owners
- Identify actual problems on process or current solution
- Animate workshops

Understand SharePoint mechanisms

Knows possibilities with SharePoint and transcribe them to functional questions.

- Link between IT and business
- Product owner(s) best friend



Define requirements

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- Identify what will be done in your project
- Don't neglect it



- Sprintable and releasable (ex SCRUM)
- Prioritized
- Flexible
- Requirements as stories
 - Independent analysis on each

This document can be

- A simple flat list
 - Avoid TFS...
- A map (?!?)











Definition



Organize and prioritize user stories in a backlog(*)

- make visible the workflow or value chain
- show the relationships of larger stories to their child stories
- help confirm the completeness of your backlog
- provide a useful **context** for prioritization
- plan releases in complete and valuable slices of functionality.

Workshops (maximum 4 peoples)

- Identity product owners per functional domains
- **Tools**
 - Coloured post-it and whiteboard
 - Electronic format (<u>SpecLog</u> \$)

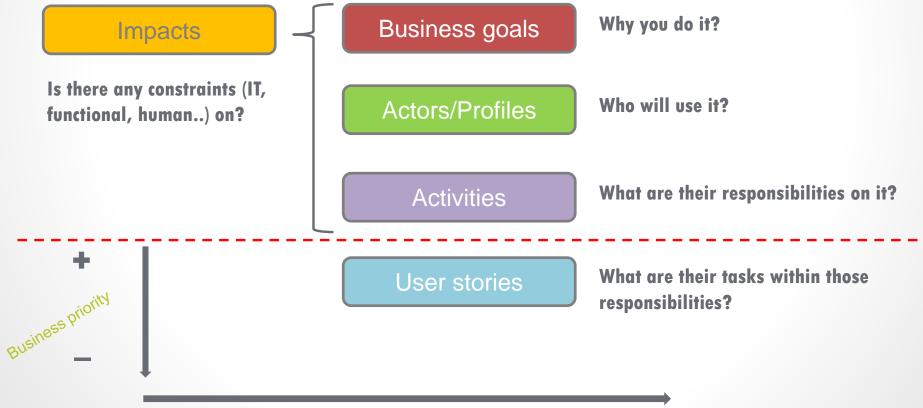








Concept



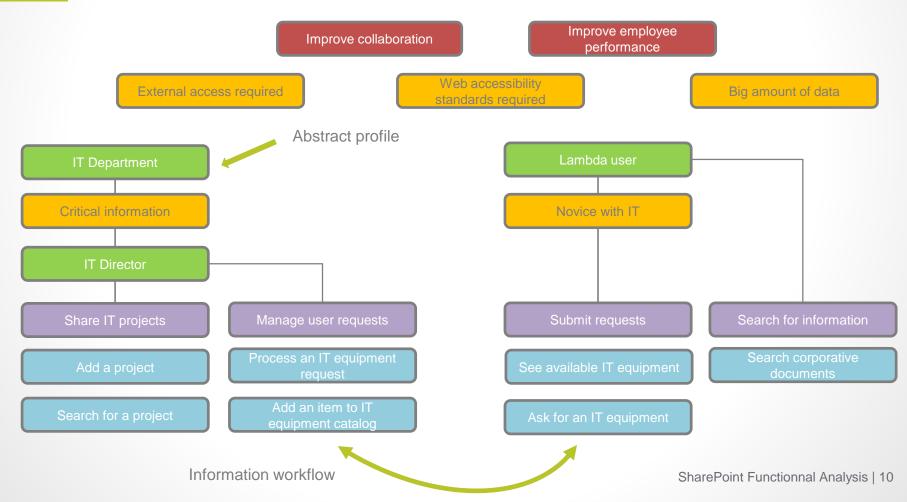








Example



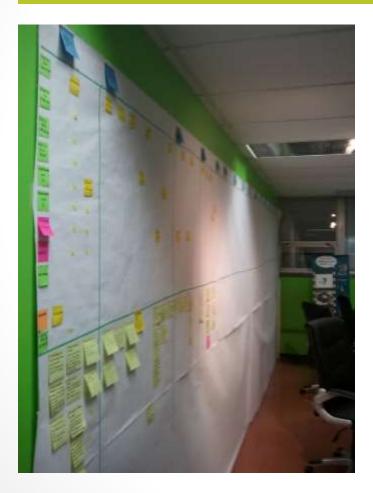


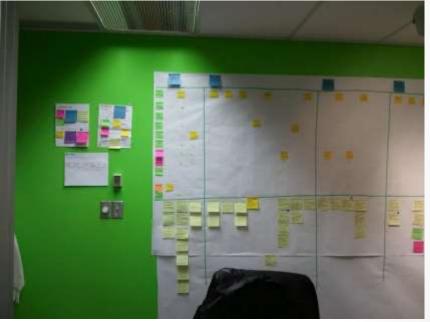


User Story Mapping



Example in real life





PS: Not mandatory to use a full wall ©









Summary



Live in a dream, don't talk about SharePoint capabilities

Everything is possible here!



Focus on roles and responsabilites

Who can do what in the system? **This**, is governance.



Focus on requirements, not solutions

No more: « I want a search engine » or « I want a SharePoint list with five columns »



Reveal information flows

That they will help you in the future to design your information architecture



Super effective but sometimes hard to assimilate

Practice, practice and practice. Dont be afraid to try. All you need is listening and rigor.

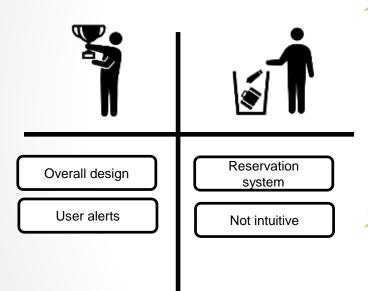








Definition



Identify what users like or don't like in their actual system or process

- particularly suitable for a system upgrade/revision project
- result as impacts in your map (all levels)

Tools

- pencils and whiteboard
- > post-it
- focus groups by functional domain

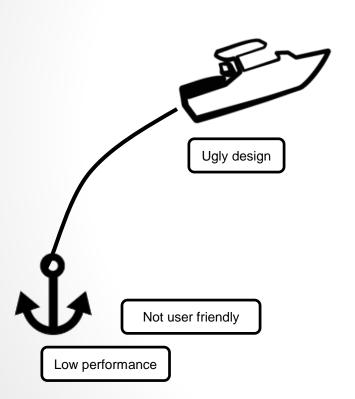








Definition



Identify what slows down user efficiency

- Most problems lie deeper
- Helps you to identify impact priorities

Tools

- pencils and whiteboard
- post-it
- focus groups by functional domain



Prioritize requirements

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Why prioritize?





- You have to start with something
 - « I want it all » is not a valid response
- Agile development guideline
 - First deliver features that give you the most value

Prioritize requirements — Tools & Techniques







Definition



- Distribute your fake money on available requirements
 - Identify priorities

Tools

- fake money
- product backlog
- \ timebox



Prioritize requirements — Tools & Techniques



Summary

Prioritized business requirements list (MoSCoW)

Priority	User Story
Priority 0 – Must have	Add a project
	Search a project
	Search corporative documents
Priority 1 – Should have	Process an IT equipment process
	See available IT equipment
	Ask for an IT equipment
Priority 2 – Nice to have	Add an item to IT equipment catalog





Functional analysis

Focus next on the 'How"?

"If you can't explain it simply, you don't understand it well enough." - Albert Einstein

B

Functional analysis

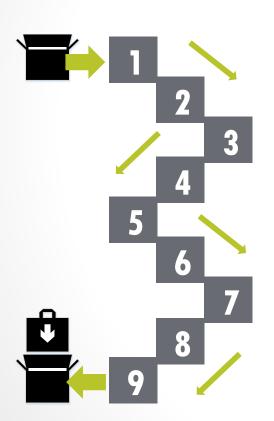
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With SharePoint



Methodology





9 simple steps

- Based on functional questions
- SharePoint OOTB oriented

Applies on a single story

Building little autonomous subsystem with its own functional analysis

All steps are not mandatory

- Depends on your user story
 - « Read » oriented VS « Write » oriented



Functional analysis

GSoft





Top SharePoint analysis facts





Analy...what??



SharePoint is like Legos®, you can do anything, for better for worse. It's up to you to choose the right brick for the right use



The SharePoint trap: when the means condition the needs



Tell me what SharePoint can do, I will tell you what you need...

3

Solutions are not close enough to users day to day needs

IT department is not often the best resource to determine whole user requirements...

Methodology summary



Your functional analysis with SharePoint



- 1 Visualize the requirement
- 2 Describe information
- 3 Define relationships between data types
- 4 Effectively storing information
- 5 Determine the data flow directions
- 6 Define data access point
- 7 Define criteria for data recovery
- 8 Define relational behaviors
- 9 Define the information display



Prerequisite







Structured Query Language



Search language

Benefits

- □ Represent the SharePoint database reality at the moment of the query.
- ☐ Retrieves linked items quite easily.

Disadvantages

□ Requires defining each field involved in the query.

Suitable for

- Access to targeted metadata
- □ Access to content subject to continuous changes

Benefits

- No need to know the field names in which to look for.
- Easy query building

Disadvantages

□ Represents the search index reality and not the SharePoint content database one.

Suitable for

- Keywords based search in "Free Text" mode
- ☐ Access to relatively static content.



Visualizing the requirement







Wireframe(s)



Browne Roge			Newsfeed SkyDrive Sites John Adoms & ?
Home Documenta Site content	Home Home Welcome to the project management page Search a project (4 Project name.		Search the one. Q
	Projects Project 1 Date: 09/07/13 Description: My awasome project Project 2 Date: 09/03/13 Description: My awasome project 2 + Add a project	Project documents Document 1 By HR Type Administrative Document 2 By Financial Type Budget + Add a project document	Project members John Adams Richart Gene Mary Poppins Alex Ovechkin

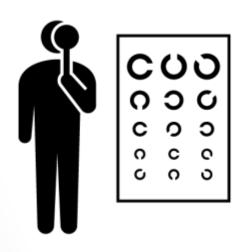


Describe information





What are the information types present in the requirement?



- Static or dynamic information?
 - Reusability concerns
- Types hierarchy?
 - Subtypes, specializations
- Metadata?
 - Visible and hidden

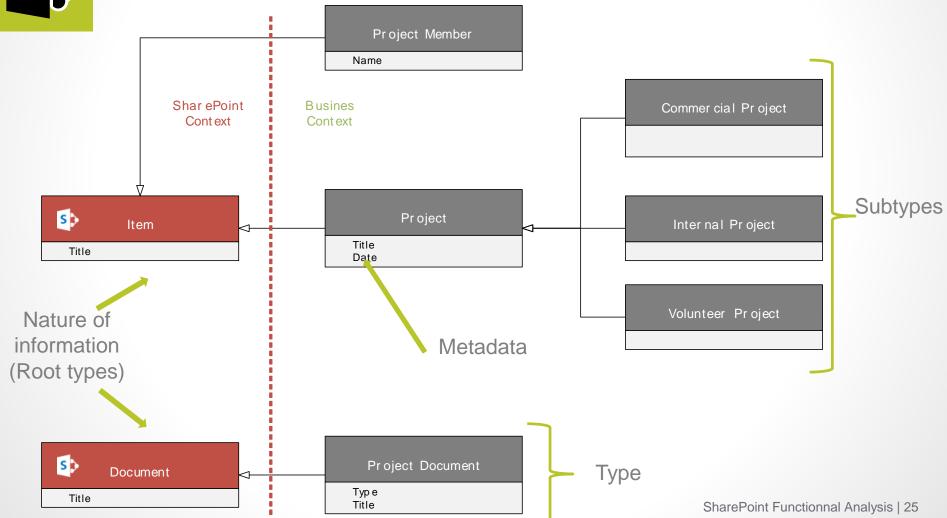
Describe information

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With SharePoint



Content Types and Columns





Define relationships between data types



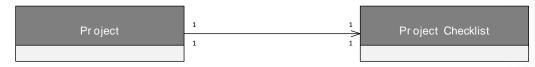


What are the relationships between these data items?





One to one



i - iii

One to many





Many to many



Define relationships between data types



With SharePoint



Possibilities







Lookup Fields

 \checkmark

 \checkmark

 \checkmark

Managed Metadata

 \checkmark

 \checkmark

Documents Sets

 \checkmark

 \checkmark

Folders

√

 \checkmark

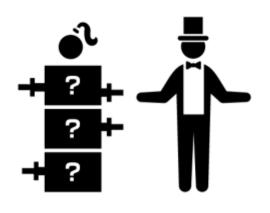


Effectively storing information









Data distribution criteria

- Volume
 - What is the amount of data?
- Information security
 - Who need to access these data?
- Business context
 - Does the structure have to follow a business hierarchy?

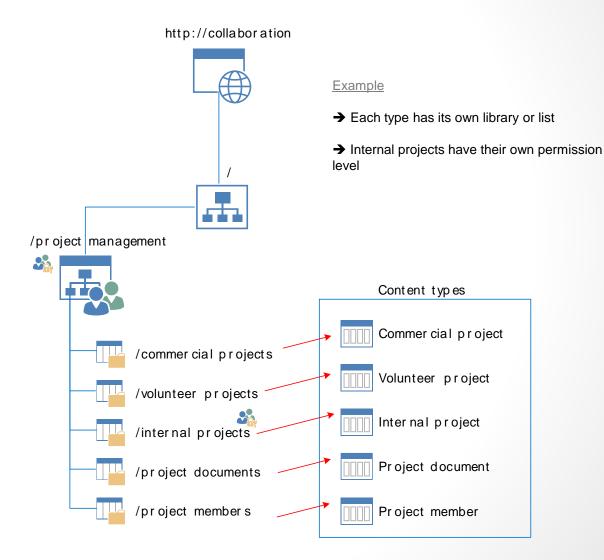


Effectively storing information

With SharePoint



- Web applications
- Sites collections
- Sites
- Lists and libraries
- List items







Determining the data flow directions



Within my SharePoint data structure, how does the data flow?



Output flow (data read)

- The system displays information to the user
- Input flow (data write)
 - Users add or edit data through the system components

Determining the data flow directions

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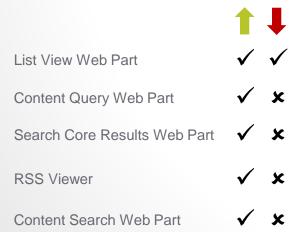
With SharePoint

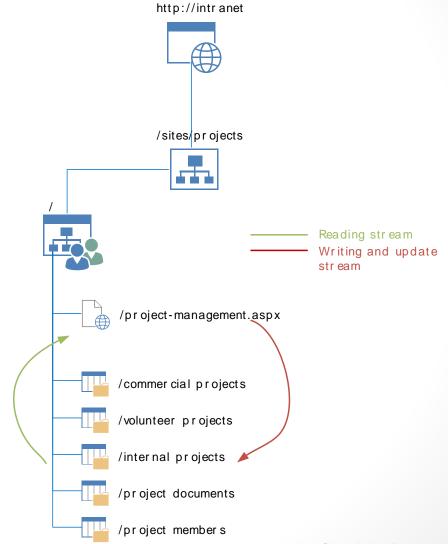


3 cases

Case #1

- ☐ Storage in a SharePoint site.
- Access from the same site.





Determining the data flow directions

GSoft

With SharePoint

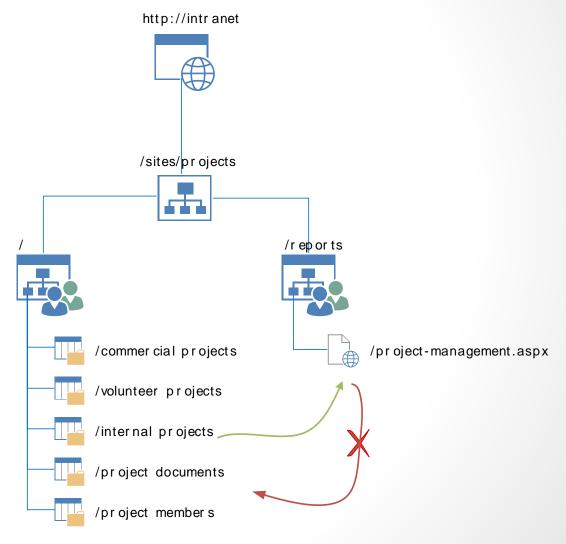


3 cases

Case #2

- ☐ Storage in a SharePoint site.
- Access from another site in the same site collection.

	1 1	
List View Web Part	x x	3
Content Query Web Part	√ ×	2
Search Core Results Web Part	√ ×	2
RSS Viewer	√ ×	2
Content Search Web Part	√ ×	2



Determining the data flow directions

GSoft

With SharePoint

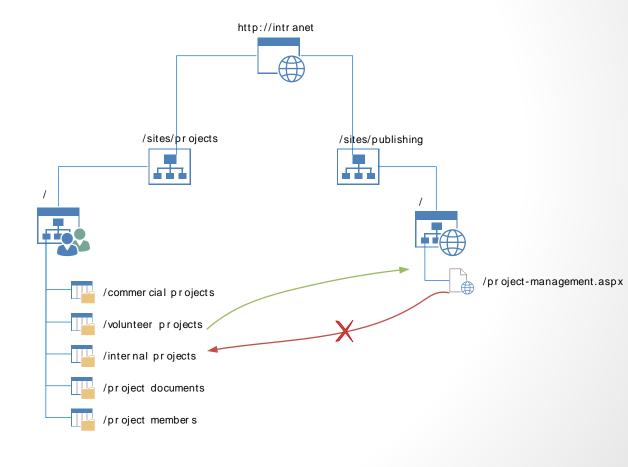


3 cases

Case #3

- ☐ Storage in a SharePoint site.
- Access from another site in a different site collection.

	1	1
List View Web Part	×	×
Content Query Web Part	×	×
Search Core Results Web Part	✓	×
RSS Viewer	×	×
Content Search Web Part	√	×



Determining the data flow directions

With SharePoint



Components

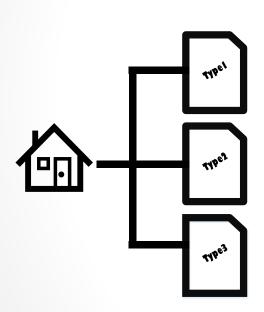
		SharePoint 2007	SharePoint 2010	SharePoint 2013	Maximum range	Language used
Reading flow		ListView Web Part			Lists & Libraries	CAML
	014	Content Query Web Part		Site collection	CAML	
		Search Core Results Web Part		Web Application	KQL	
		RSS Viewer		Site collection	-	
				Content Search Web Part	Web Application	KQL
Writing at	nd now	ListView Web Part		Lists & Libraries	CAML	







According to the data storage distribution and flow, where are the data access points and what types are exposed?



Raw data

- Plain text not related to any specific type
 - Ex: A welcome text

Data aggregation

- Compilation of data from different data sources
 - Fx: Dashboards

Typed information

- Single Item metadata view
- Visualization of data corresponding to a specific type
 - Ex: A project sheet

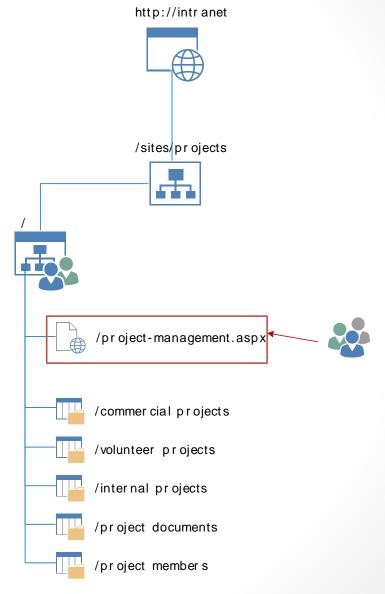


With SharePoint





- Raw data
 - Wiki Pages
- Data aggregation
 - Web Parts Pages
- **Typed information**
 - **List Forms**
 - **Publishing Pages**

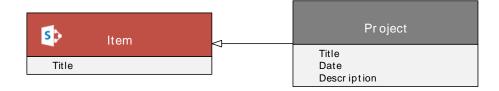


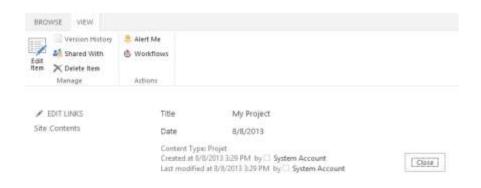
With SharePoint



Typed information

List Forms



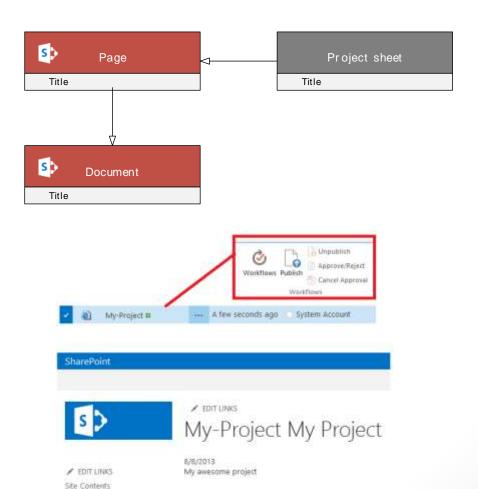


With SharePoint



Typed information

Publishing page







Define the conditions for information recovery



Under which conditions should information should appear in the page?



- Are the recovered items have to correspond to reality at time T in SharePoint?
- Is there a sort needed on the elements?
- Are there any hierarchical constraints between elements?
- Are there any relationships between entities?
- Are these items must be targeted to a specific audience?
- Are there multilingual constraints?
- Must queries be reused?
- Are there conditional constraints on queries?
- What is the Information life cycle?



Define relational behaviors





What are the relational constraints on the information?



- Notions of filtering and connections in response to actions
 - \rightarrow Ex: An user select an item in a list \rightarrow an other value is selected in a other component.
 - Ex: Language on the page has changed

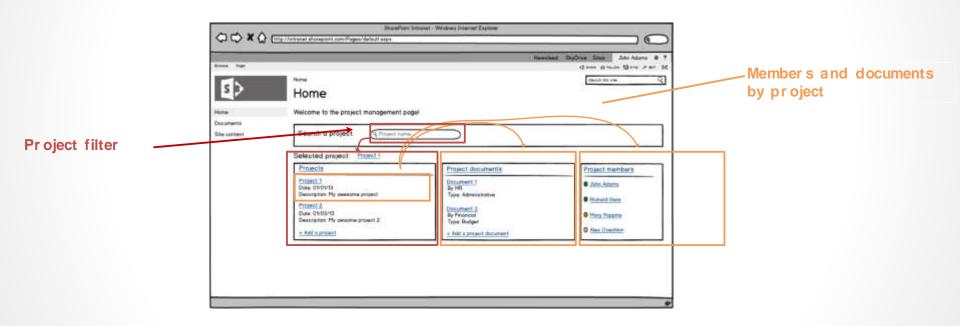


Define relational behaviors





What are the relational constraints on the information?





Define the information display

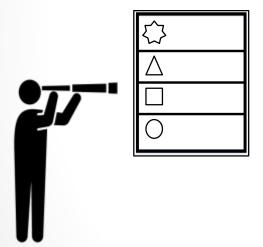






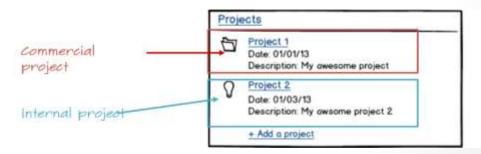


- Metadata
- Style
 - Colours, fonts, etc...



Should they appear grouped or alone

Mixed types inside one container with visual distinction

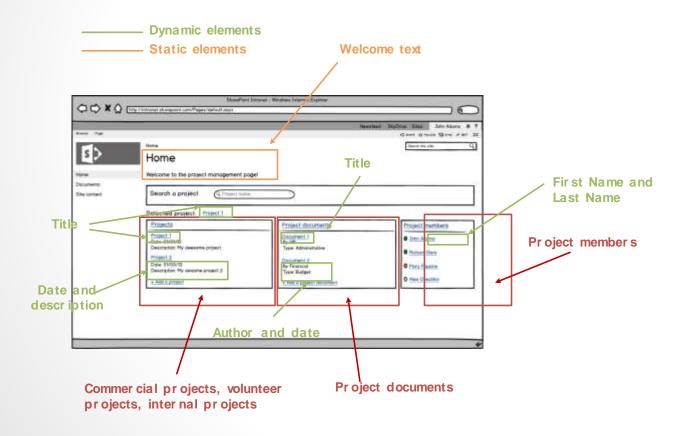


Define the information display





Display management





XSL

- Limitations due to compiler version
- Standard before SharePoint 2013 (but still present)

JavaScript/HTML

- Display templates with result sources (search)
- More powerfull but more complex
- Standard with 2013

Methodology summary



Your functional analysis with SharePoint



- What does the requirement look like?
- What are the information types?
- 3 What are the relationships?
- 4 Where data is stored?
- What are the data flows?
- What are the page types?
- 7 What are the display constraints?
- **8** What are the behaviors on pages?
- 9 How information are displayed?



Methodology summary

Tools



TESTED AND APPROVED

Want to

Draw pretty schemas

Define your backlog as a map

Define your backlog as a list

Draw wireframes

Brainstorm about taxonomy

Get more details about this method

We

Recommend to you

Microsoft Visio

Speclog http://www.speclog.net/

Excel, TFS

Balsamiq http://balsamiq.com/

Xmind http://www.xmind.net/

GSoft website www.gsoft.com (detailed ebook coming soon!)



Conclusion



Templates & Examples on SkyDrive



Remember to fill out your evaluation forms to win some great prizes!

&

Join us for SharePint today!

Date & Time: Nov 23rd, 2013 @6:00 pm

Location: The Observatory Pub,

Algonquin Student's Association

Address: A-170 on Algonquin Campus

Parking: No need to move your car!*

Site: http://www.algonquinsa.com/ob.aspx

^{*}Please drive responsibly! We are happy to call you a cab ©