

Web-based Multi-site Feasibility Questionnaire Tool

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Introduction

- Clinical trials
- Protocol feasibility (PF)
- EHR4CR
- Objectives
 - Analyse current feasibility questionnaires and processes
 - Integrate a feasibility questionnaire tool

Feasibility questionnaire (FQ) analysis

- Seven EFPIA companies
 - Seven processes
 - Five PF questionnaire templates
 - Sixteen FQ examples
- One of the companies uses a word processor to build the FQ, three corporative systems and three free-to-use online survey systems
- The number of sections varies between three and 13 with one to 47 questions per section and 22 to 100 questions per questionnaire



Analysis results

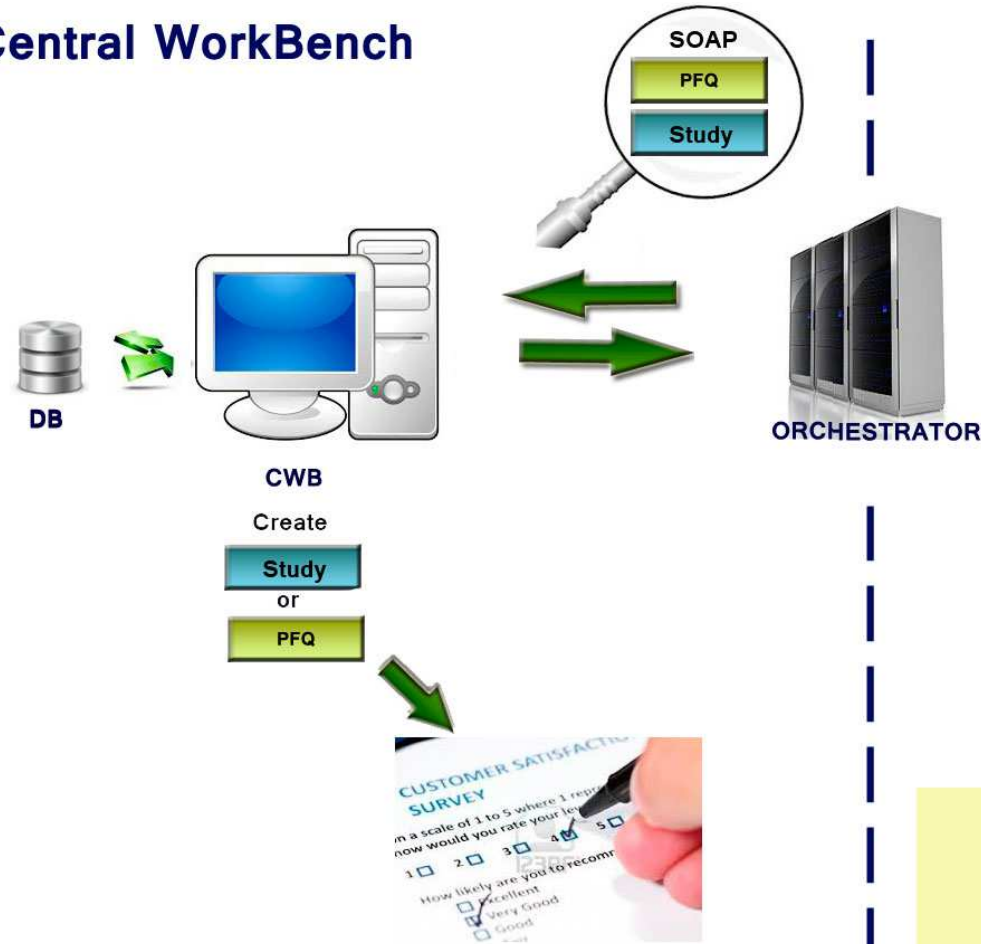
Q type	Total QN	Q per template	Q per questionnaire
Free text	532	21,2	26,6
Radio Button	299	13,6	14,4
Radio Button +Comment	251	12	11,9
Number	230	4	13,1
Checkbox +Comment	62	4,8	2,4
Checkbox	14	0,2	0,7
Free text table	12	0,4	0,8
Date	6	0	0,4

Development

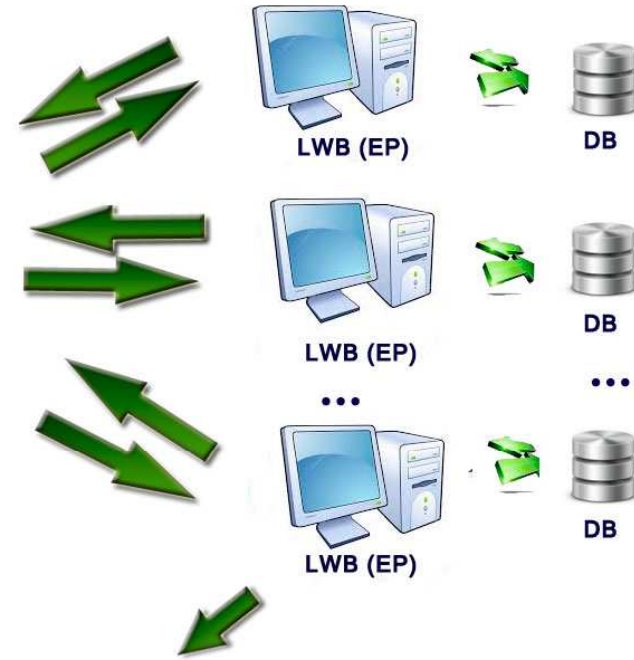
- 4 Phases:
 - Project plan
 - Notification system
 - PF questionnaire tool
 - Tests and documentation
- UML, Java, Play Framework, SOAP, JMS

The EHR4CR System

Central WorkBench



Local WorkBench



Questionnaire creation



About EHR4CR Logged as : admin Logout

EHR4CR Dashboard Feasibility Studies Recruitment Studies Members My Account **PFQ** About


PFQ

List of Available Pfq :

Show 10 entries Search:

Title	Owner	Creation Date	Status	Actions
Pfq1	admin@ehr4cr.com	2014-08-21 09:21:12	Sent	 Open  Delete

Showing 1 to 1 of 1 entries First Previous 1 Next Last

 Create New

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Questionnaire creation (2)

[PFQ](#) > New PFQ

Please enter the following pfq information:

Title:

Description:

Enter description here...

Back

Cancel

Create

Questionnaire modification

[PFQ](#) > Pfq1

Preview

Title: Pfq1

1. Question1

2. Question2

Yes No

3. Question3

a b c d

Question:

Type:

Free Text YES/NO Options

Add Question

Save PFQ

Questionnaire distribution

The screenshot displays the EHR4CR web application interface. At the top, there is a navigation bar with the EHR4CR logo and menu items: Dashboard, Feasibility Studies, Recruitment Studies, Members, My Account, PFQ (highlighted), and About. The user is logged in as 'admin'. Below the navigation bar, a breadcrumb trail shows 'PFQ > Pfq1'. A progress indicator shows four stages: Draft, Published (highlighted), Sent, and Close. A 'Publish Interest' button is visible. The main content area shows a 'Preview:' section with three questions:

- 1. Question1: A text input field.
- 2. Question2: Radio buttons for 'Yes' and 'No'.
- 3. Question3: Radio buttons for 'a', 'b', 'c', and 'd'.

A modal dialog box is open, titled 'Please choose the sites you want to publish interest to:'. It contains the following options:

- Select All
- BE ([See sites](#))
- DE ([See sites](#))
- Friedrich-Alexander-Universitaet Erlangen-Nurnberg - Lehrstuhl fur Medizinische Informatik (FAU)
- Westfaelische Wilhelms-Universitaet Muenster (WWU)
- FR ([See sites](#))

An 'OK' button is located at the bottom right of the modal dialog.

Local workbench

PFQ

List of Available PFQ :

Show **10** entries Search:

Title	Owner	Creation Data	Status	Actions
Pfq1	admin@ehr4cr.com	2014-08-21 09:21:12	READY	 Open

Showing 1 to 1 of 1 entries First Previous 1 Next Last

Responding the questionnaire

About EHR4CR Logged as : Administrator Logout

EHR4CR **CHU** **g.e.m.s** Dashboard Recruitment Studies Members PFQ Tools **PF Questionnaires** My Account

[PFQ](#) > Pfq1

1. Question1

2. Question2
 YES
 NO

3. Question3
 a
 b
 c
 d

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Limitations & Future work

- Limited functionality
- Question types
- Questionnaire and question group templates
- Export function
- Statistics

Conclusions

- Supports the design of study protocols
- Semi-automatises creation and collection of feasibility questionnaires
- Integrates within a single system the functionality needed for the design of study protocols
- The system needs to be further developed

Discussion



- *Thanks to the following partners involved:*
 - *Amgen NV; Bayer Schering AG; Eli Lilly; GlaxoSmithKline; Janssen NV; Novartis AG; Sanofi-Aventis.*

