



CentERdata
Institute for data collection and research

Implementation of Questasy: Online data information and dissemination using DDI 3

Alerk Amin



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Questasy

- Data dissemination application
- Longitudinal panel
- Based on DDI 3
- Administrators
 - Data entry
- Researchers
 - Browse & search metadata, download datasets
- No DDI knowledge required

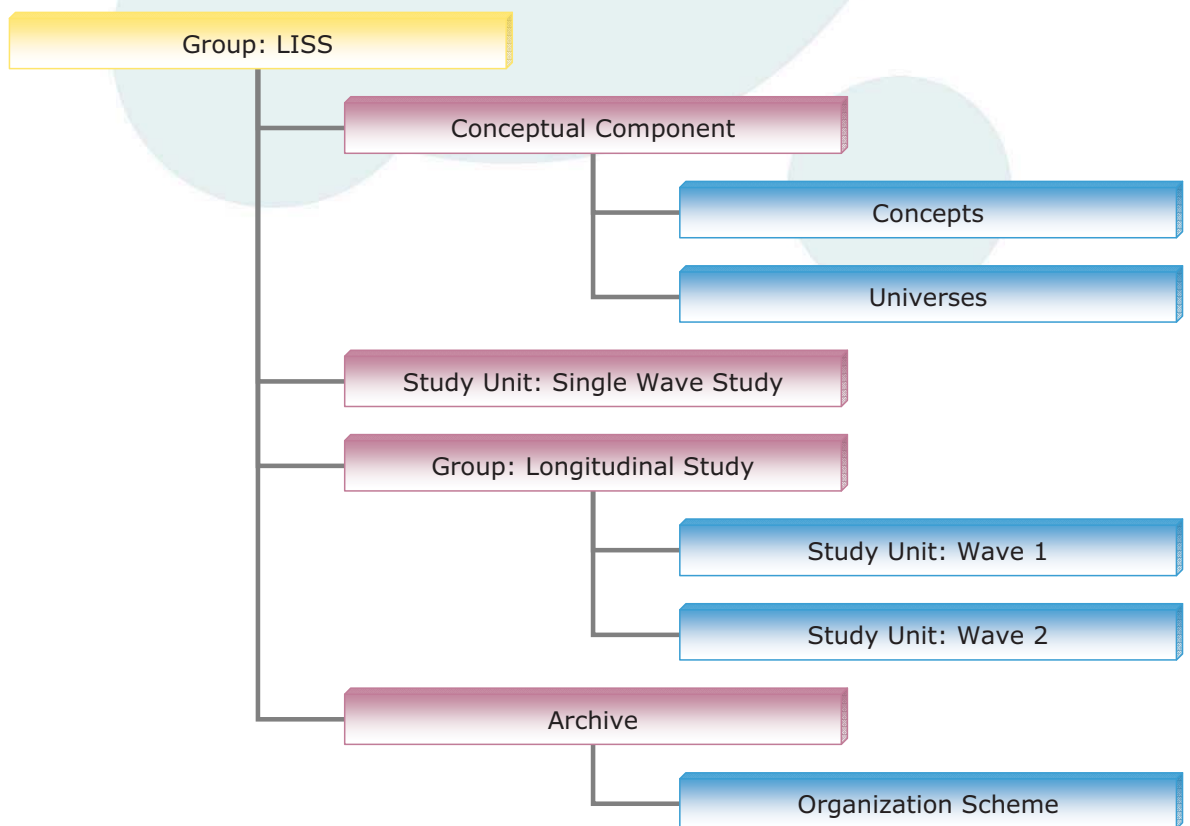


Metadata Organization

- Subset of DDI
- Simplify for easier management
 - DDI inheritance model



LISS & DDI Hierarchy

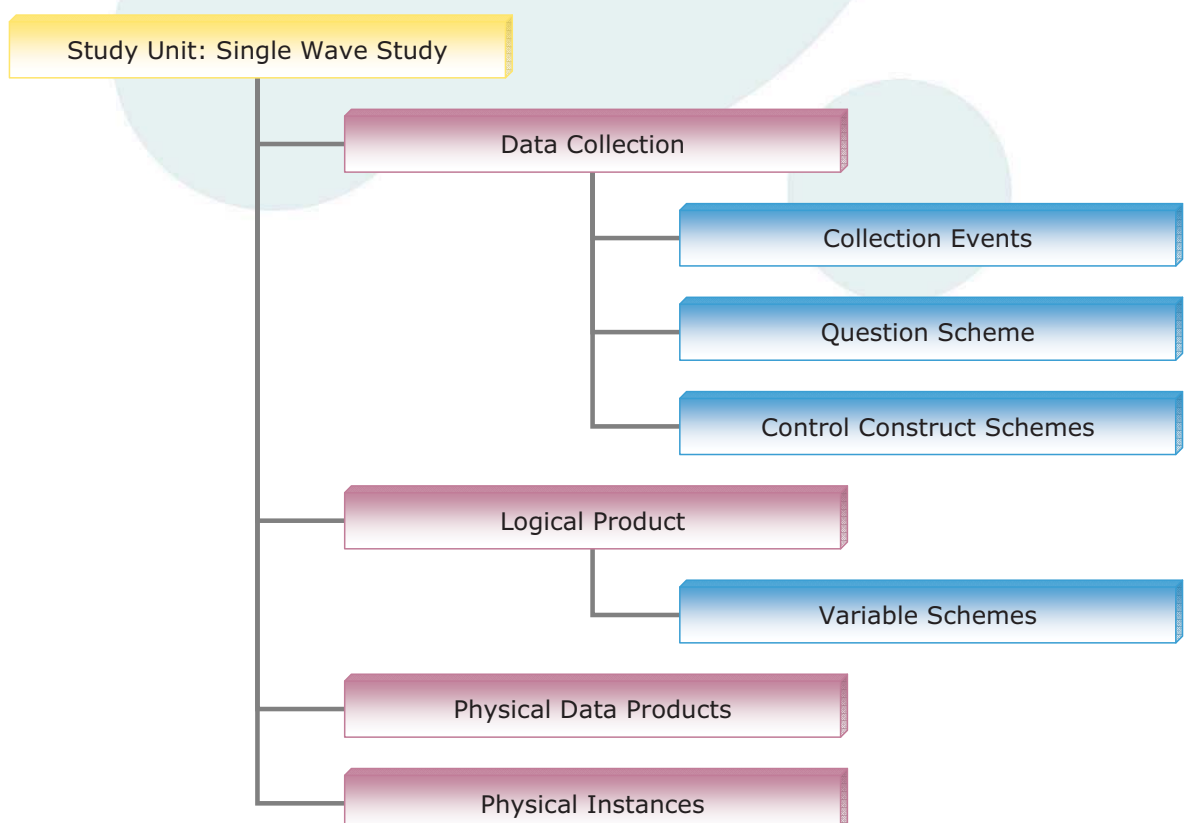


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Single Wave Study

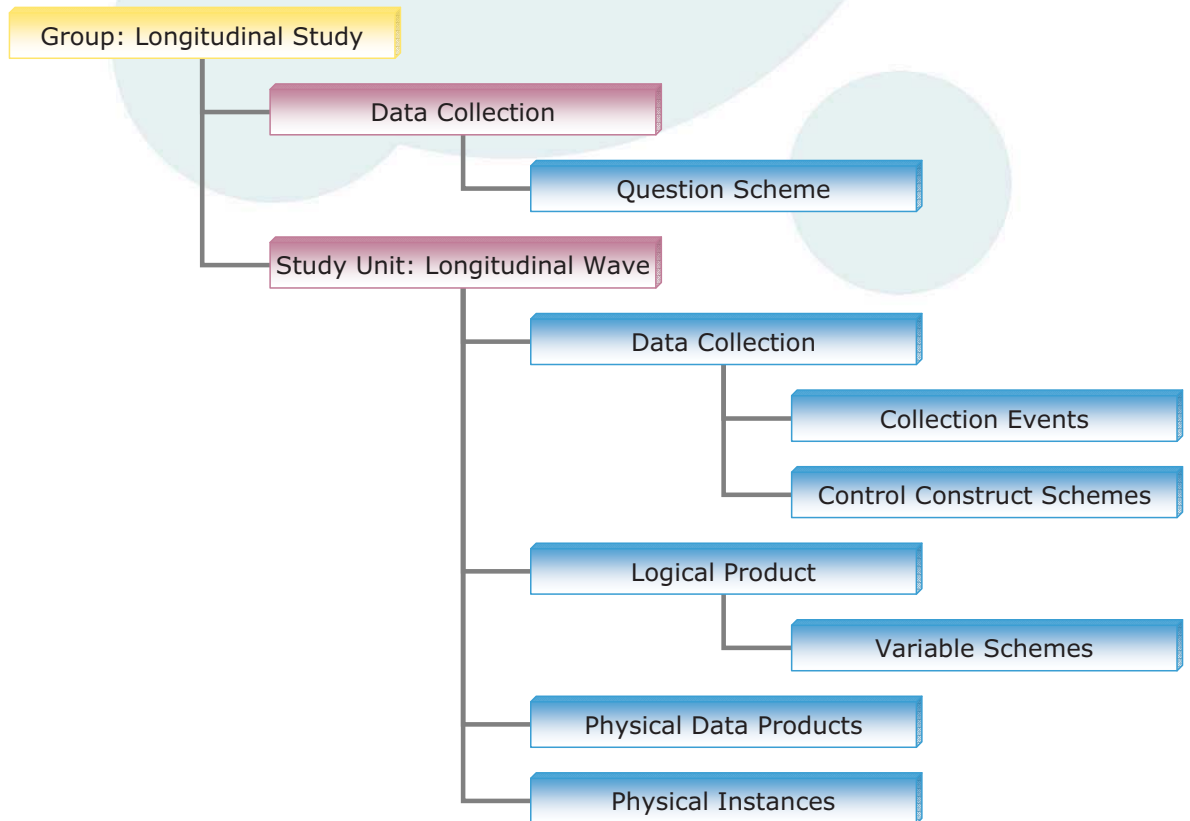


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Longitudinal Study

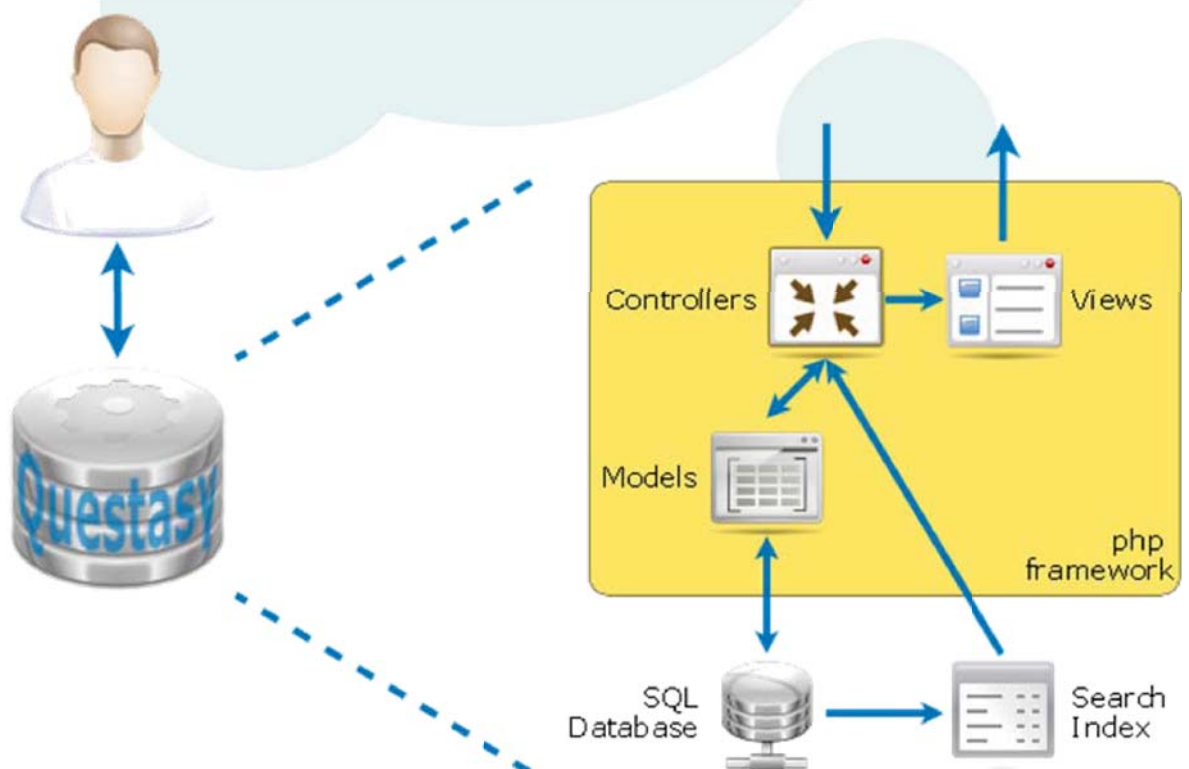


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Questasy Architecture



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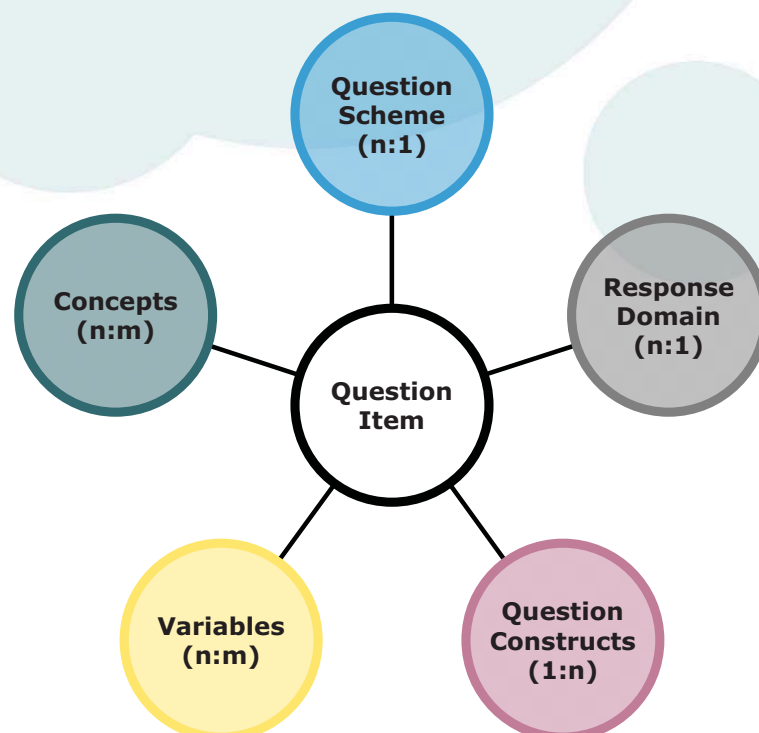


Database Design

- DDI 3 -> Relational Model
 - Fields
 - Relationships
 - Complex Types

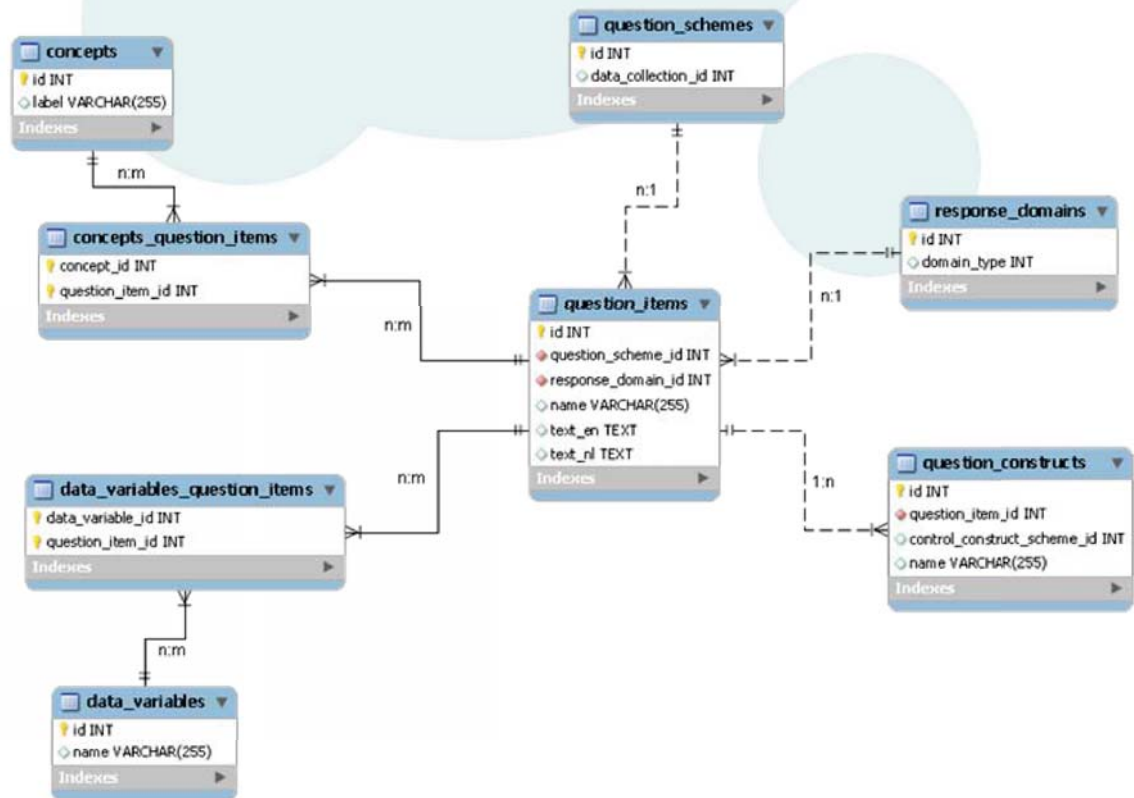


DDI 3 Relationships in Model





DDI 3 in Database

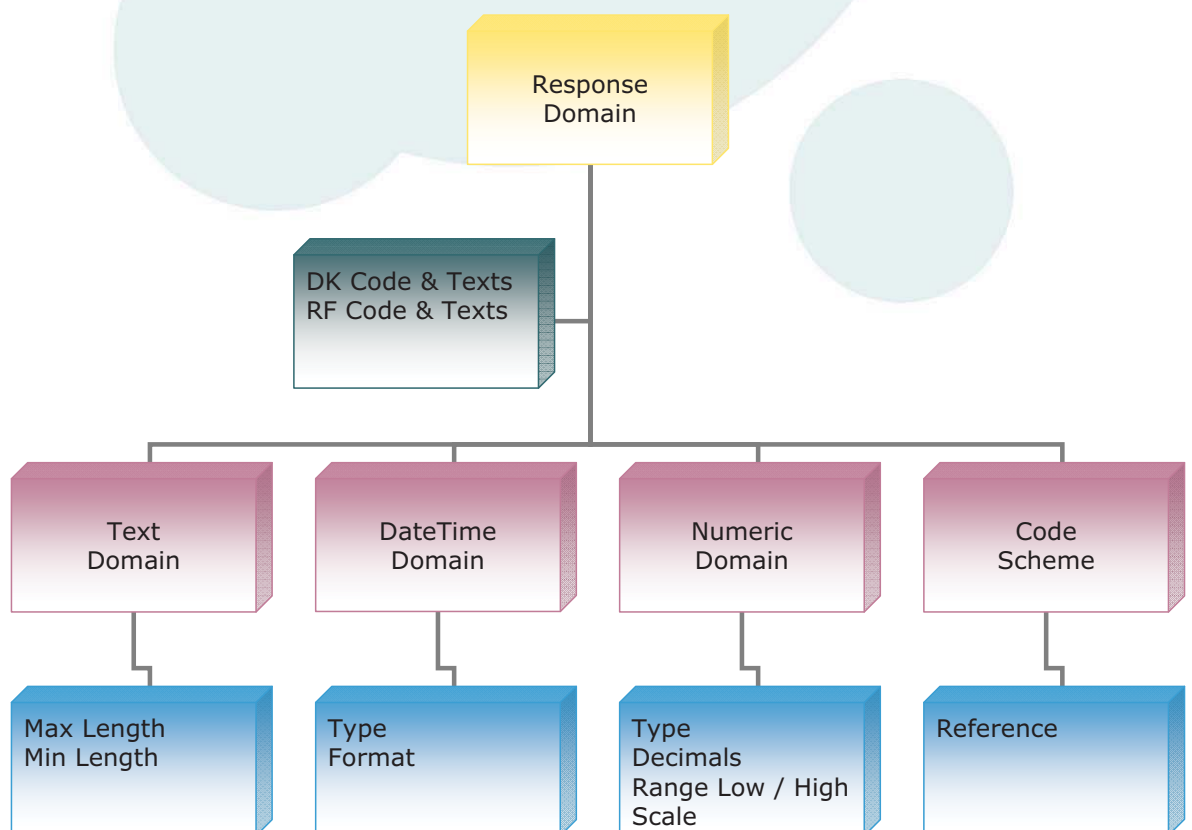


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Substitution Group

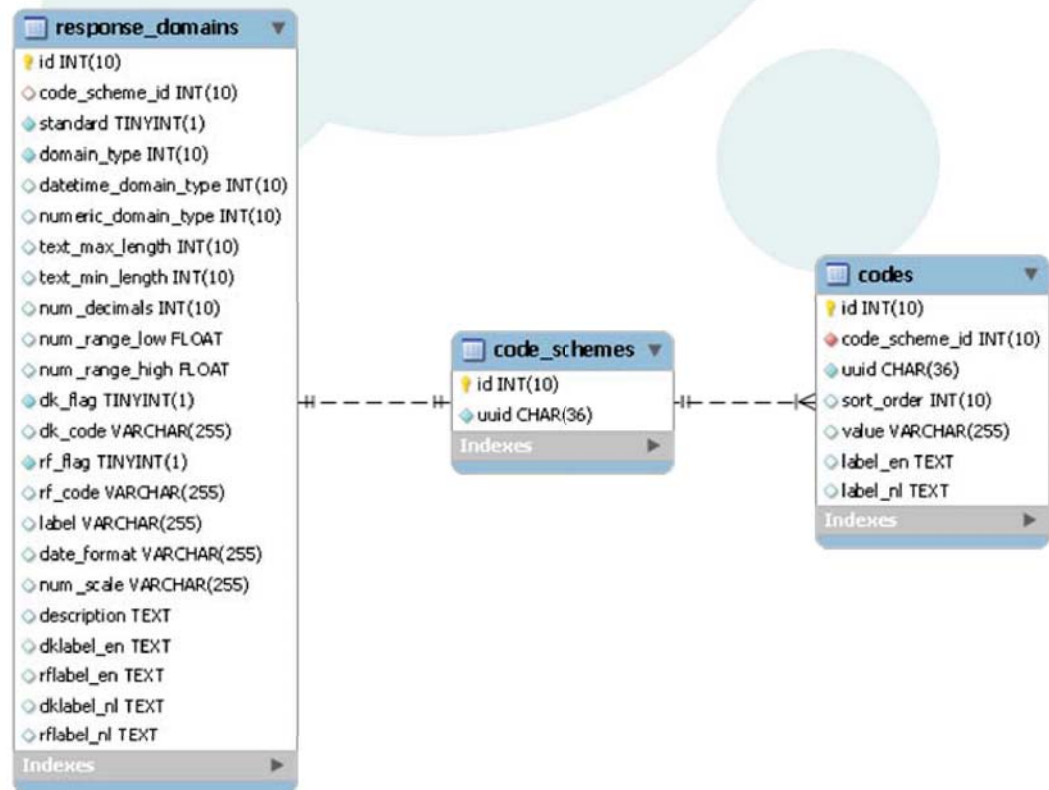


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Single-Table Inheritance



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Implementing DDI Inheritance

- Study Units & Groups
 - Single table to simplify queries
 - longitudinal_type field differentiates
 - Left-right trees
 - retrieve hierarchy in a single query without joins

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DDI Export IDs

- Database links elements via foreign keys
 - Unsigned Integer
- DDI export requires IDs or URNs
- IDs
 - Generate UUIDs automatically for each identifiable element

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Data Entry

- Web Forms
 - Variable, Question Item, Question Construct
 - SPSS OMS XML Import
- Single page affects multiple tables

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Add Question Item

Add Question

Name:

Source:

Question Text

Font Style: List: Insert Hyperlink:

Are you a member of a political party?

Question Text

Font Style: List: Insert Hyperlink:

Bent u lid van een politieke partij?

Intent

Font Style: List: Insert Hyperlink:

Table Header: ☐

New Answer Type: ☒

Add Response Domain

Standard: ☐

Domain Type:

Position	Code	Label	Label	Remove
1	1	Yes	Ja	Remove
2	2	No	Nee	Remove
Add at position 4				

Include Don't Know: ☐

Include Refusal: ☒

Refusal Code:

Refusal Label:

Refusal Label:

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Question Item

Response Domain
Code Scheme
Code (multiple)

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Database Transactions

- Begin Transaction
- Process entire form
- Commit if successful
 - All elements are always valid
- Rollback if unsuccessful
 - Display error message on screen
 - Allow user to change input

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Indexed Search

- Solves
 - Search across multiple tables
 - TEXT field length
 - Structured strings (HTML)
 - Performance
- Other benefits
 - Assign scores to matches
 - Rank results
 - Stemming

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Questasy Services

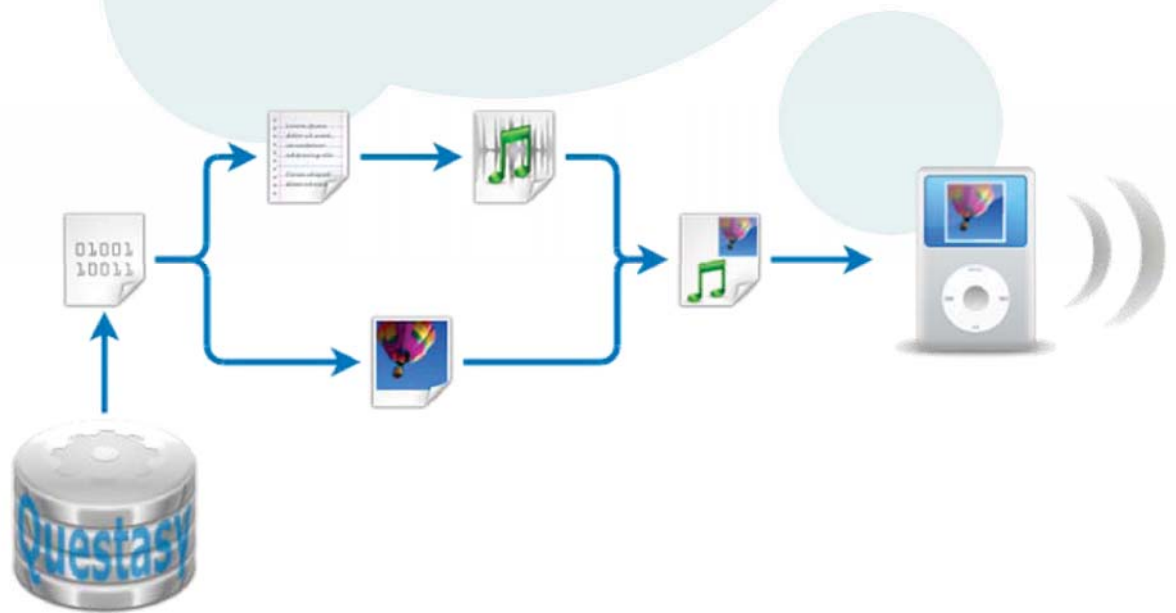


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ddiPod



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ddiPod Screenshots



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Further Information

- LISS Data Archive
 - www.lissdata.nl/dataarchive
- DDI Working Paper
 - Questasy: Online data information and dissemination using DDI 3



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