
Crowd-Sourced ADaM-Programming and Standardization: A Design Study

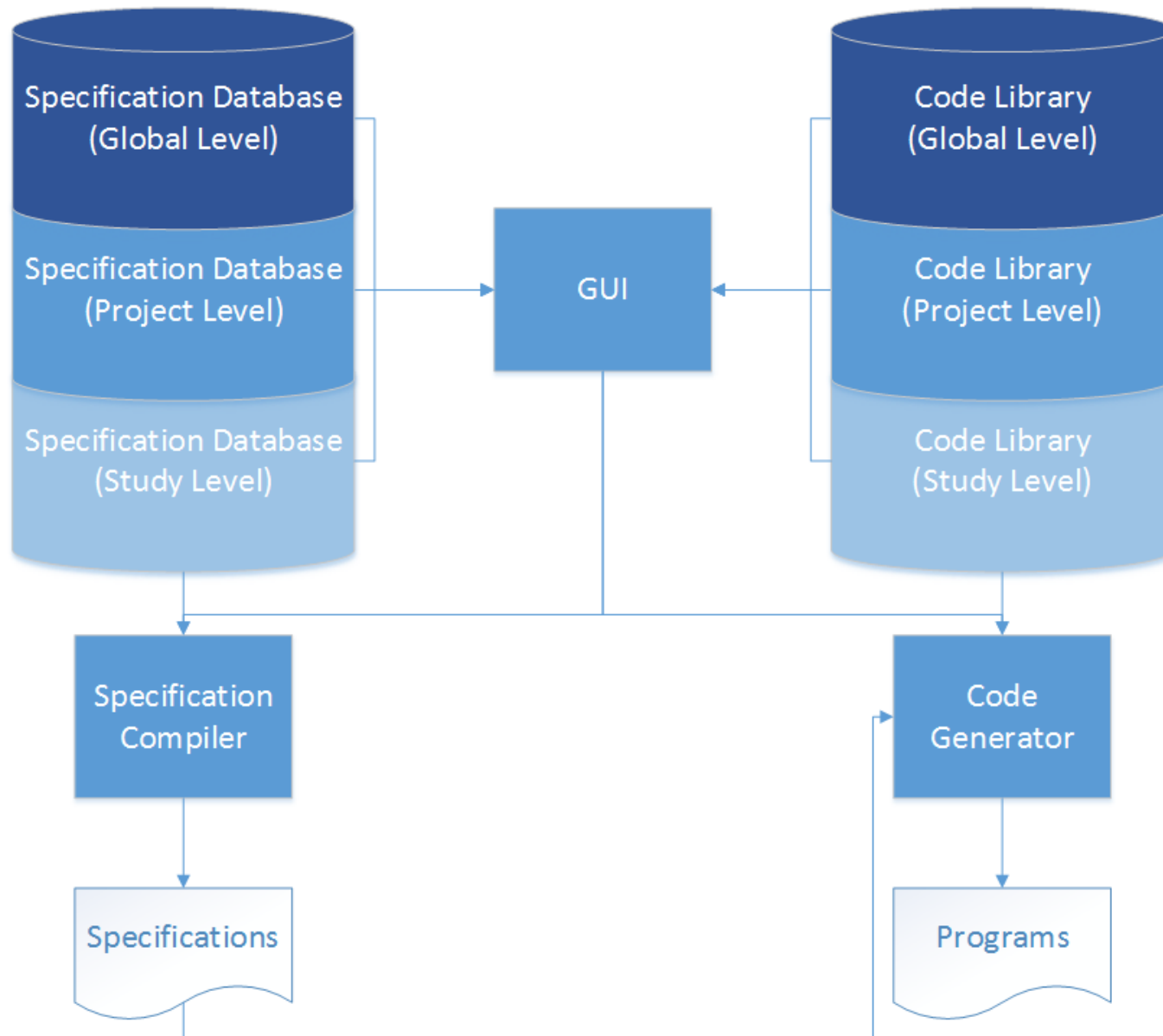
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2018-11-06



Disclaimer

This presentation does not depict the current way of working at Roche.

The Components



The GUI Variable View 1

Variable builder

Variable name: Variable label:

Variable type: Variable length:

Algorithm description:

Derivation algorithm:

Code:

Program:

Previous variable Next variable

The GUI Variable View 2

Variable builder

Variable name: Variable label:

Variable type: Variable length:

Algorithm description:

Derivation algorithm:

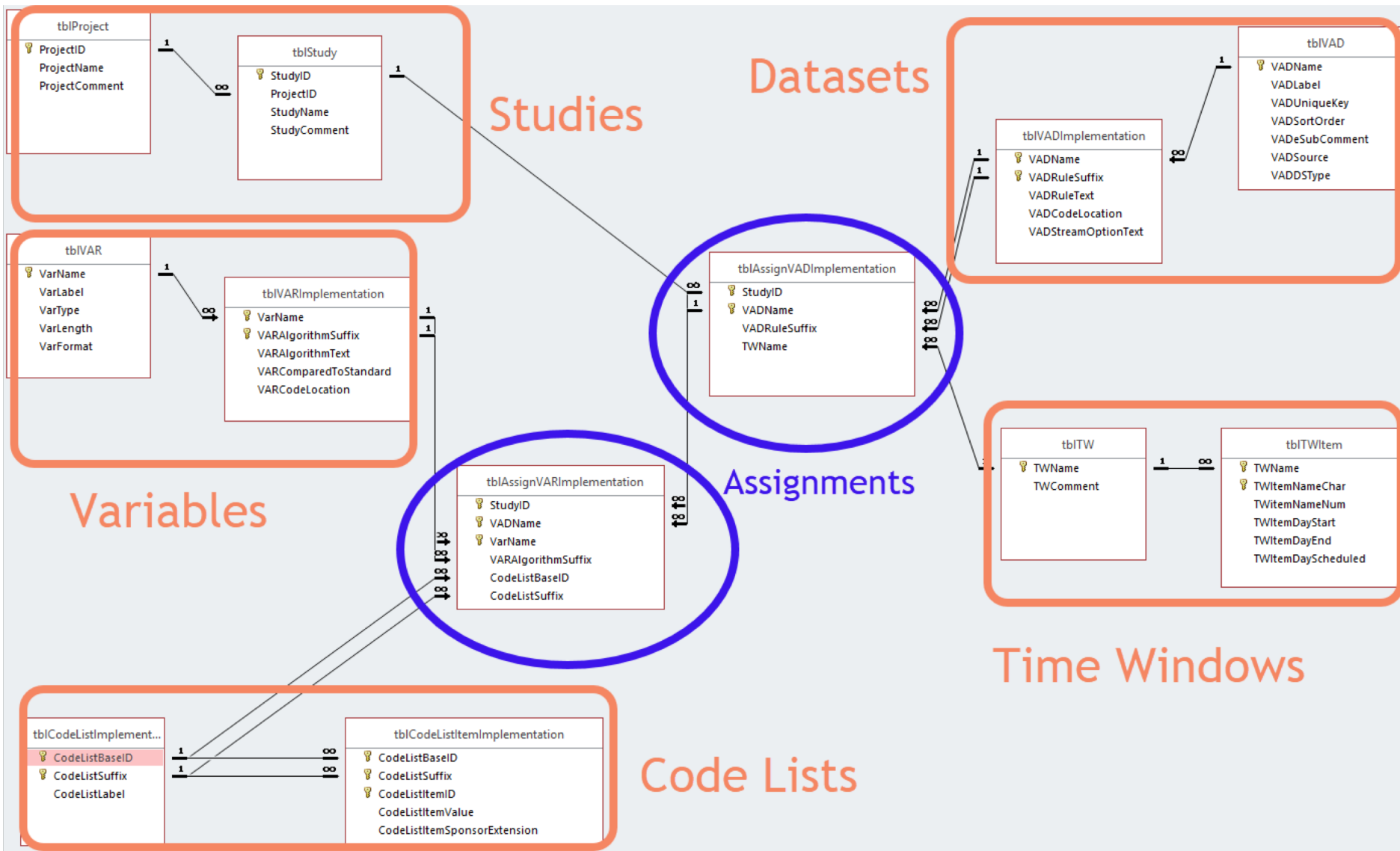
Code:

Program:

Required program adt_s01.sas could not be found (yet)!

Previous variable Next variable

The Data Model



Some Requirements for Contents in the Specification Database

- Prefer one-level variable references
- Prefer references to SDTM-variables
- Keep derivations as independent as possible

An Example Code Snippet

```
/* Header */  
  
/*CODESTART*/  
data _OUTDATA_ ;  
    set _INDATA_ ;  
    adt=datepart(adtm) ;  
run ;  
/*CODEEND*/
```

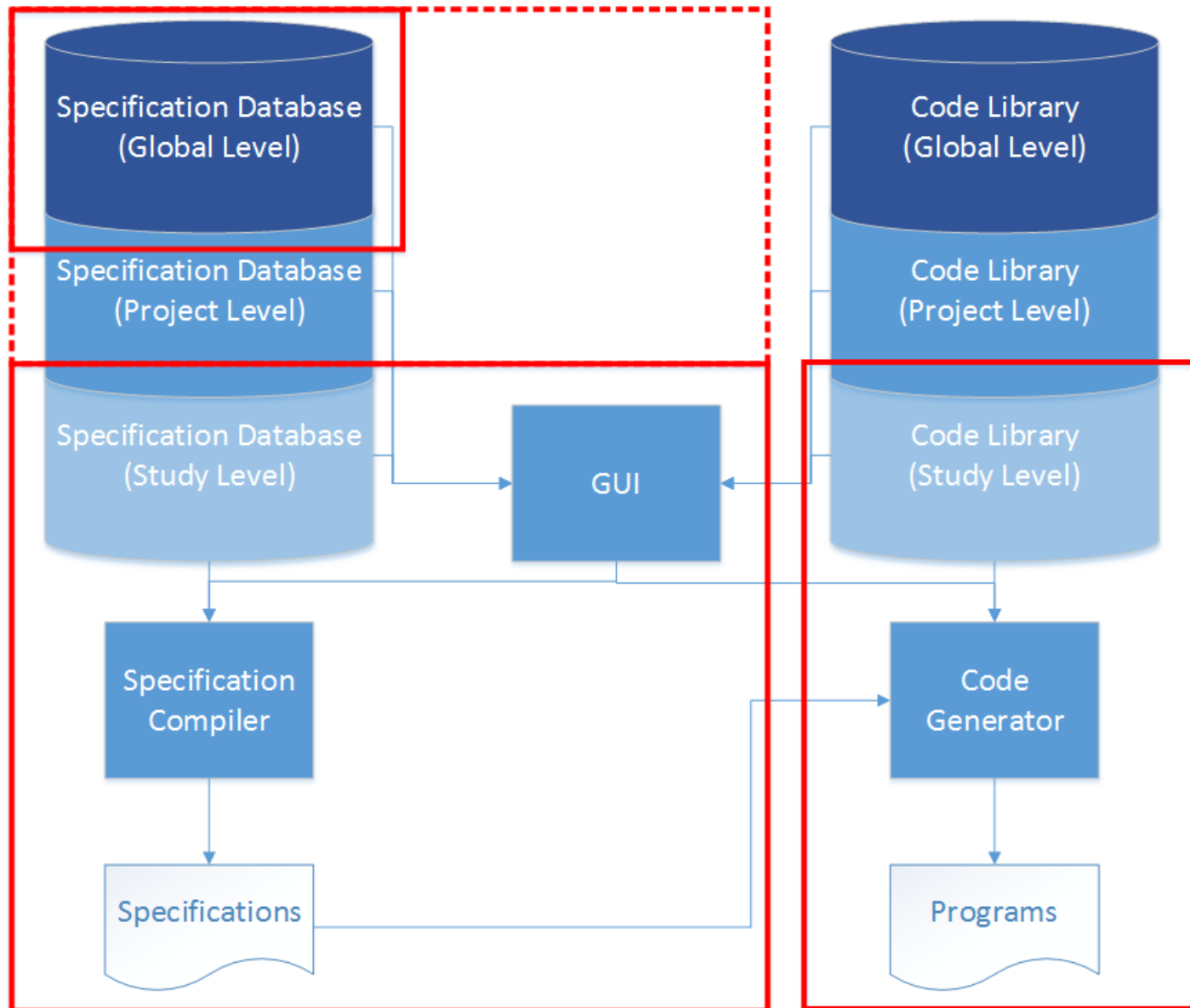
Requirements for Code Snippets

- Input must be a dataset
- Output must be the same dataset + 1 new variable + any number of additional records (exceptions apply)
- It must adhere to naming convention for replacement strings
- Depending on statistical computing environment: specific programming language

Example of a Compiled Program

```
/* Header */
data adxxxxxx01;
    attrib /* ... */
        adt length=8 label="Analysis Date";
run;
/* ... */
* ADT -----;
data adxxxxxx08;
    set adxxxxxx07;
    adt=datepart(adtm) ;
run;
/* ... */
```

Current State of Proof-of-Concept



***Doing now what patients need
next***