

Requirements and Specification, ESOF 328, Spring 2022

Specifying data requirements, Chapter 13, Feb. 14

Data modeling:

- Entity-Relationship Diagram
- UML class diagram, without the lower methods

Data model – high level view of the data

Data dictionary – low level view of the data

Data dictionary – collection of detailed information about the data entities used in an application. Helps avoid redundancies and inconsistencies.

Includes:

- Names
- Meaning
- Composition or data type
- Length
- Allowed values

SRS definitions, acronyms and abbreviations defines application domain or business terms, not data items of the proposed system.

CRUD matrix helps detect missing requirements

CRUD – Create, Read, Update and Delete, basic operations needed for most objects. Some add L for list (Figure 13.5, page 252).

Specifying reports– Exploring the content and format of the reports needed is an important aspect of requirements development.

- Analysis – what information goes into the report and how it is organized
- Design – what the report should look like

Dashboard reporting – screen display or printed report that uses multiple textual and/or graphical representations of data to provide a consolidated, multidimensional view of what is going on in an organization or a process.