

SDS CONTENTS



OVERVIEW

1. Cover page.
2. Table of contents.
3. Introduction
4. Business rules
5. Process modeling
6. Data modeling OR
7. Web site structure

1. Business rules:

- What really happens in the organization?
- Explain all the operations of the business relevant to the system being developed.
- This should help the reader capture the scope of your proposed system.
- Clearly show the system boundary.
- Should be in narrative form (at least one paragraph).

2. Process modeling:

- Identify and explain the meaning of symbols to be used.
- Identify all the processes
- Identify the context diagram for the system.
- Construct the DFDs
- Decompose the DFDs to level 0- level 3.

Context diagram:

- That captures the system at the highest level. This diagram captures the **main process**.
- This is a data flow diagram (DFD) of the scope of an organizational system that shows the system boundaries, external entities that interact with the system and the major information flows between the entities and the system

Data flow diagram:

- Identify **Use Cases**, i.e. the ways in which users most commonly use the system.
- Create DFD fragments for each use case.
- Decompose the DFD fragments to level 0-level 3

3. Data modeling (For database systems):

- Identify the major entities and attributes.
- Normalize to third normal form.
- Ensuring there is no redundancy.
- All tables must have primary and foreign keys.
- Construct the data dictionary. That shows the attributes and the field properties.
- The entity relationship diagram (ERD).

- Provide process description using structured English (pseudocode).
- Draw the flow chart for the pseudo code.
- Provide any abbreviations and definition of terms used.
- All the symbols used in the flow chart must be explained.

3. Web site structure (For web based systems):

- Describe the layout and components of the web site.
- Specify the web design methodologies; top-down, bottom-up or incremental.
- Specify the design techniques to be used;
- Specify how the pages created will be linked together; - Hierarchically, linear organization or combination of linear and hierarchical.
- Specify the overall look and feel with a universal grid;-

- Web wide navigation links to assist the user move through the entire website
- Information cues for the user to describe if the content on the page is of interest or not.
- Specify all the components to be used and their usage in details;-
 - Tables
 - Forms
 - Frames
 - Image maps
 - Animations
- Include flow chart to help the client understand the entire website at a glance.
- All the symbols used in the flow chart must be explained.

- Provide a data dictionary that summarizes all the components of the site.(Can be in a tabular form;component,technique to develop,usage,location/page)
- Provide any abbreviations and definition of terms used.