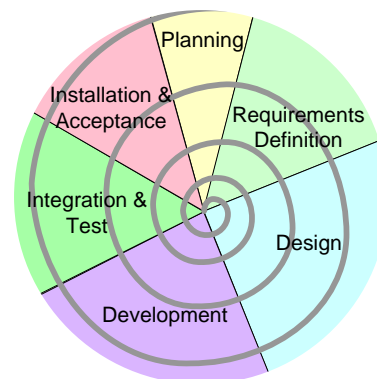


Software Requirements Document

BOTS Customer Component

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GLOSSARY OF PROJECT-SPECIFIC TERMS	
Glossary of Software Engineering Terms	A standard Glossary of Software Engineering Terms is maintained online. Terms specific to this project are maintained below.
Glossary of Project-Specific Terms	A common Glossary of Project-Specific Terms is maintained on the project Web site.

INTRODUCTION

This is the Software Requirements Document (SRD) for the Customer (CUST) component of the Basic Order Tracking System (BOTS) database application.

PURPOSE

The purpose of this SRD is to expand upon the goals described in the BOTS-CUST Component Iteration Plan (CIP). The requirements document is an intermediate step; it describes the functionality of the component in sufficient detail to support a formal design effort.

SCOPE

In technical terms, the requirements described in this document are called system definition requirements. The development methodology for this project places system definition requirements as a middle tier between high-level requirements and design requirements, as shown here:

DB Requirement Class Artifacts		
Requirements Class	Processing Focus	Storage Focus
High-Level Requirements (Goals) [SPMP, CIP]	Use Cases User Community Desc Shell Capabilities	Operational Data Area Desc Reference Data Area Desc
System Definition Req's (Req's) [SRD LDD]	Core Functions Requirements Component Functional Reqts Performance Requirements	Logical ERD Entity Descriptions
Design Requirements (Elements) [SDD, PDD]	Menus Forms Operations Queries & Reports	Physical ERD Data Dictionary Access Control Hierarchy
	Business Rules	

A [description of the above requirements classes and subclasses](#) is available at the software engineering process repository for this project.

REFERENCES

The following standards were used as guides to develop this requirements document. The standards were reviewed and this content tailored to the specific needs of this project.

- IEEE 830-1988: Standard for Software Requirements Specifications
- IEEE 1012-1988: Standard for Software Validation and Verification Plans
- SEI/CMMI: RD, REQM Process Areas

REQUIREMENTS

REQUIREMENT IDENTIFIERS

To facilitate traceability between high-level requirements, system definition requirements, and system design requirements, this development methodology mandates requirement identifiers in the following format:

High-level requirements, or component goals, are defined in the Component Iteration Plan (CIP) and identified with the letters CG, a sequential number, a hyphen, and the component acronym (BOTS). For example, the first goal for this component is identified in the CIP as **CG1-BOTS**. This indicates that this is the first high-level requirement, or goal for the BOTS-CUST component.

The letter R, a sequential number, a hyphen, and the parent goal that this requirement satisfies, in whole or in part, identify system definition requirements, also referred to simply as “requirements.” For example, the third requirement for a typical project could be identified as **R3-CG2**. This indicates that this is the third system definition requirement, and is traced to the second high-level requirement for the component.

LOGICAL DATABASE DESCRIPTION & ENTITY DESCRIPTIONS

R1-CG1

¹⁰⁰

The BOTS-CUST design shall be based on the logical Entity Relationship Diagram (ERD) and related entity descriptions included in the Logical Database Description available at:

<http://www.shellmethod.com/projs/bots/architecture/cust/2-requirements/BOTS-CUST-LDD.pdf>

The LDD is maintained separately due to its focus on the structure and utilization of the entities associated with BOTS.

MANAGE CUSTOMER DATA

R2-CG1

25

The system shall provide the ability to enter, update, and maintain customer data as described in the logical ERD and related entity descriptions.

MODULE ACCESS

R3-CG2

10

The customer data module shall be accessible from the application top page.

R4-CG2

10

Only those users with appropriate permissions will be able to access this module.

SUMMARY LISTING

R5-CG3

15

A summary listing of customer data shall be presented to the user after execution of a search or adding one or more records.

DATA ENTRY & DETAIL DISPLAY

R6-CG3

25

A customer data entry and detail display form shall be presented to the user when adding new records or when a record link on a summary listing has been selected.

SIMPLE SEARCHES

R7-CG4

5

The user will be able to perform single field, simple searches on indexed customer data fields.

PREDEFINED COMPLEX SEARCHES

The following predefined complex searches will be made available to the user:

R8-CG4

20

Customers with back orders.

R8a-CG4

20

Customers that have purchased a specific product.

R8b-CG4

20

Customers active within a date range.

R8c-CG4

20

Customers not active within a date range.

PREDEFINED REPORTS

The following predefined reports will be made available to the user:

R9-CG5

25

Customer reference cards.

R9a-CG5

25

Customer mailing labels.

OPERATIONS

The following operation(s) will be made available to the user:

R10-CG6

R10a-CG7

15

Export mail merge data.

MANAGE DEMOGRAPHIC DATA

R11-CG1

²⁵

The system shall provide the ability to enter, update, and maintain Demographic data as described in the logical ERD and related entity descriptions.

MODULE ACCESS

R12-CG2

¹⁰

The data area shall be accessible from the application top page.

R13-CG2

¹⁰

Only those users with appropriate permissions will be able to access this module.

SUMMARY LISTING

R14-CG3

¹⁵

A summary listing of data shall be presented to the user after execution of a search.

DATA ENTRY & DETAIL DISPLAY

R15-CG3

²⁵

A data entry and detail display form shall be presented to the user when adding new records or editing existing records.

SIMPLE SEARCHES

R16-CG4

¹⁰

The user will be able to perform single field, simple searches on indexed data fields.

PREDEFINED COMPLEX SEARCHES

There are no predefined complex searches for this data area.

PREDEFINED REPORTS

There are no predefined reports for this data area.

OPERATIONS

The following operation(s) will be made available to the user:

R17-CG6

R17a-CG7

15

Export demographic data.

ANALYSIS LISTINGS

The following listings are automatically maintained by the word processor for this document. They are of use only to systems analysts when verifying requirements traceability across documents and tracking project size.

R1-CG1
R2-CG1
R3-CG2
R4-CG2
R5-CG3
R6-CG3
R7-CG4
R8-CG4
R8A-CG4
R8B-CG4
R8C-CG4
R9-CG5
R9A-CG5
R10-CG6
R10A-CG7
R11-CG1
R12-CG2
R13-CG2
R14-CG3
R15-CG3
R16-CG4
R17-CG6
R17A-CG7

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