

ISO/TR 19669:2017-10 (E)

Health informatics - Re-usable component strategy for use case development

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	3
5	Objectives for the re-usable component strategy	4
6	Use case basics	4
6.1	General	4
6.2	Use case scenarios, events and actions	4
6.3	Use case actors	4
7	Use case component candidates	4
7.1	General	4
7.2	Identify-ability	5
7.3	Catalogue-ability	5
7.4	Commonality	5
7.5	Computability	5
8	Use case components	5
8.1	General	5
8.2	Requirements	5
8.3	Actors and roles	6
8.4	Scenarios, events and actions	6
8.5	Data objects and elements	6
9	Use case scenarios	7
9.1	General	7
9.2	Events and event steps	7
9.3	Actors and roles	7
9.4	Actions taken	7
9.5	Inputs and outputs	7
10	Use case requirements template	7
10.1	Preface and introduction	7
10.2	Initiative overview	8
10.2.1	General	8
10.2.2	Initiative challenge statement	8
10.3	Use case scope	8
10.3.1	General	8
10.3.2	Background	8
10.3.3	In scope	8
10.3.4	Out of scope	8
10.3.5	Stakeholders	8
10.4	Value statement	9

10.5	Use case assumptions	9
10.6	Pre-conditions	9
10.7	Post-conditions	9
10.8	Actors and roles	9
10.9	Use case diagram	10
10.10	Use case scenario(s)	10
10.11	User story	11
10.12	Activity diagram	11
10.13	Flow	11
10.13.1	Base flow	11
10.13.2	Alternate flow	12
10.13.3	Functional requirements	12
10.13.4	Information interchange requirements	13
10.13.5	System requirements	13
10.13.6	Sequence diagram	13
10.14	Risks, issues and obstacles	13
10.15	Dataset requirements	13
11	Methodology for component capture, cataloguing and re-use	14
11.1	General	14
11.2	Component -- Requirements	14
11.3	Derivation of common requirements from existing use case template	14
11.3.1	General	14
11.3.2	Re-use of common requirements in new use case scenario	14
11.4	Component - Actors/roles	17
11.4.1	General	17
11.4.2	Derivation of common actors/roles from existing use case template	17
11.4.3	Re-use of common actors/roles in new use case scenario	17
11.5	Component -- Scenarios	17
11.5.1	General	17
11.5.2	Derivation of scenarios from existing use case template	18
11.5.3	Re-use of common scenarios in new use case	18
11.6	Component -- Events	18
11.6.1	General	18
11.6.2	Derivation of events from existing use case template	18
11.6.3	Re-use of common events in new use case scenario	18
11.7	Component -- Actions	20
11.7.1	General	20
11.7.2	Derivation of actions from existing use case template	20
11.7.3	Re-use of common actions in new use case scenario event steps	20
11.8	Component -- Data objects/elements	21
11.8.1	General	21
11.8.2	Derivation of data objects/elements from existing use case template	21
11.8.3	Re-use of common data objects/elements in new use case data requirements	21
12	Progression -- Use case development to implementation	23
12.1	General	23
12.2	Use case requirements phase	23
12.2.1	General	23
12.2.2	Subject matter experts	24
12.2.3	Use case analysts	24
12.2.4	Initial sketch of the clinical/business case	24
12.2.5	Comprehensive statement of the clinical/business case	24
12.2.6	Components of the clinical/business case	24
12.2.7	Finalization of clinical/business case requirements	24
12.3	Anchor for traceability	24
12.4	Fulfilment of clinical/business case requirements	25
	Bibliography	26