

Ontology-based Expert System for a Generic Drug Production of Pharmaceutical Dosage Forms

Traceability Record

By

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Document History

Document Name	Version	Status	Date	Viewable	Reviewer	Responsible
Documents						
OEGP – Traceability Record v.0.1.docx	0.1 <ul style="list-style-type: none"> • URS and SRS • URS and Class diagram • URS and Sequence diagram • URS and User interface • Class diagram and sequence diagram 	Draft	July 4, 2014	NS, PW, CD	NS, PW	NS, PW
OEGP – Traceability Record v.1.0.docx	1.0 <ul style="list-style-type: none"> • Class diagram and Unit Test Case 	Release	July 7, 2014	NS, PW, CD	NS, PW	NS, PW
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¹ NS – Narongrit Saisuwan , PW – Panupak Wichaidit , CD - Chartchai Doungsa-ard

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Chapter 1 | Introduction

1.1. Purpose

The purpose of traceability record for Ontology-based Expert System for a Generic Drug Production of Pharmaceutical Dosage Forms is to show the relation of the project. The traceability is linked between user requirements to system requirement specification, use case, sequence diagram and user interface design.

1.2. Acronyms

OEGP	Ontology-based Expert System for a Generic Drug Production of Pharmaceutical Dosage Forms
PDPO	Pharmaceutical Dosage Form Production Ontology
URS	User Requirement Specification
SRS	System Requirement Specification
CD	Class diagram
CD-CI	Class diagram For Client Side
CD-SV	Class diagram For Server Side.
SQD	Sequence Diagram
SQD-CI	Sequence Diagram For Client Side
SQD-SV	Sequence Diagram For Server Side
UI	User interface
SDD	Software Design Document
UTC-CI	Unit Test Case For Client Side
UTC-SV	Unit Test Case For Server Side

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Traceability Matrix between URS/SRS

URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-01	✓																					
SRS-02	✓	✓																				
SRS-03	✓	✓																				
SRS-04	✓																					
SRS-05	✓																					
SRS-06	✓																					
SRS-07	✓																					
SRS-08	✓	✓																				
SRS-09	✓																					
SRS-10	✓																					
SRS-11	✓	✓																				
SRS-12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SRS-13		✓																				
SRS-14		✓																				
SRS-15		✓																				
SRS-16			✓	✓	✓																	
SRS-17			✓	✓	✓																	
SRS-18			✓																			
SRS-19			✓																			
SRS-20			✓																			
SRS-21			✓	✓	✓																	

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URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-22				✓																		
SRS-23				✓																		
SRS-24				✓																		
SRS-25					✓																	
SRS-26					✓																	
SRS-27					✓																	
SRS-28					✓																	
SRS-29						✓																
SRS-30						✓																
SRS-31						✓																
SRS-32						✓		✓														
SRS-33						✓																
SRS-34						✓		✓														
SRS-35						✓																
SRS-36						✓																
SRS-37						✓																
SRS-38						✓																
SRS-39						✓		✓														
SRS-40						✓																
SRS-41						✓		✓														
SRS-42							✓	✓														
SRS-43							✓	✓														
SRS-44							✓															
SRS-45								✓														
SRS-46								✓														

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SRS-47								✓														
SRS-48								✓														
SRS-49								✓														
SRS-50								✓														
SRS-51									✓													
SRS-52									✓													
SRS-53									✓	✓												
SRS-54									✓	✓												
SRS-55									✓	✓												
SRS-56									✓	✓												
SRS-57									✓	✓												
SRS-58									✓	✓												
SRS-59									✓	✓												
SRS-60									✓	✓												
SRS-61									✓	✓												
SRS-62									✓	✓												
SRS-63									✓	✓												
SRS-64									✓	✓												
SRS-65									✓	✓												
SRS-66									✓													
SRS-67									✓													
SRS-68									✓													
SRS-69									✓													
SRS-70									✓	✓												
SRS-71									✓	✓												

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SRS-72									✓	✓												
SRS-73									✓	✓												
SRS-74									✓	✓												
SRS-75									✓	✓												
SRS-76									✓	✓												
SRS-77									✓	✓												
SRS-78									✓	✓												
SRS-79									✓	✓												
SRS-80									✓	✓												
SRS-81									✓	✓												
SRS-82									✓	✓												
SRS-83										✓												
SRS-84										✓	✓	✓										
SRS-85										✓	✓	✓										
SRS-86										✓												
SRS-87										✓												
SRS-88										✓												
SRS-89											✓											
SRS-90											✓											
SRS-91											✓											
SRS-92												✓										
SRS-93													✓									
SRS-94													✓									
SRS-95													✓	✓								
SRS-96													✓	✓								

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URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-97													✓	✓								
SRS-98													✓	✓								
SRS-99													✓									
SRS-100													✓									
SRS-101													✓									
SRS-102													✓									
SRS-103													✓	✓								
SRS-104													✓	✓								
SRS-105													✓	✓								
SRS-106													✓	✓								
SRS-107														✓								
SRS-108														✓	✓	✓						
SRS-109														✓	✓	✓						
SRS-110														✓								
SRS-111														✓								
SRS-112														✓								
SRS-113															✓							
SRS-114															✓							
SRS-115															✓							
SRS-116																✓						
SRS-117																	✓					
SRS-118																	✓					
SRS-119																	✓	✓				
SRS-120																	✓	✓				

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URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-121																	✓	✓				
SRS-122																	✓	✓				
SRS-123																	✓					
SRS-124																	✓					
SRS-125																	✓					
SRS-126																	✓					
SRS-127																	✓	✓				
SRS-128																	✓	✓				
SRS-129																	✓	✓				
SRS-130																	✓	✓				
SRS-131																	✓					
SRS-132																		✓				
SRS-133																		✓	✓	✓		
SRS-134																		✓	✓	✓		
SRS-135																		✓				
SRS-136																		✓				
SRS-137																		✓				
SRS-138																			✓			
SRS-139																			✓			
SRS-140																			✓			
SRS-141																				✓		
SRS-142																					✓	
SRS-143																					✓	
SRS-144																					✓	
SRS-145																					✓	

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URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-146																					✓	
SRS-147																					✓	
SRS-148																					✓	
SRS-149																						✓
SRS-150																						✓

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Traceability Matrix between URS/CD-CI

URS/ CD-CI	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
CD-CI-01			✓	✓	✓	✓								
CD-CI-02							✓	✓	✓	✓				
CD-CI-03											✓	✓	✓	✓
CD-CI-04	✓													
CD-CI-05		✓												

Traceability Matrix between URS/CD-SV

URS/ CD-SV	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
CD-SV-01			✓	✓	✓	✓								
CD-SV-02							✓	✓	✓	✓				
CD-SV-03											✓	✓	✓	✓
CD-SV-04	✓													
CD-SV-05		✓												

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Traceability Matrix between URS/SQD-CI

URS/ SQD-CI	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
SQD-CI-01			✓											
SQD-CI-02				✓										
SQD-CI-03					✓									
SQD-CI-04						✓								
SQD-CI-05							✓							
SQD-CI-06								✓						
SQD-CI-07									✓					
SQD-CI-08										✓				
SQD-CI-09											✓			
SQD-CI-10												✓		
SQD-CI-11													✓	
SQD-CI-12														✓
SQD-CI-13	✓													
SQD-CI-14		✓												

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Traceability Matrix between URS/SQD-SV

URS/ SQD-SV	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
SQD-SV-01			✓											
SQD-SV-02				✓										
SQD-SV-03					✓									
SQD-SV-04						✓								
SQD-SV-05							✓							
SQD-SV-06								✓						
SQD-SV-07									✓					
SQD-SV-08										✓				
SQD-SV-09											✓			
SQD-SV-10												✓		
SQD-SV-11													✓	
SQD-SV-12														✓
SQD-SV-13	✓													
SQD-SV-14		✓												

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Traceability Matrix between URS/UI

URS/ UI	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
UI-01			✓	✓	✓	✓								
UI-02			✓											
UI-03				✓	✓									
UI-04				✓										
UI-05					✓									
UI-06							✓	✓	✓	✓				
UI-07							✓							
UI-08								✓	✓					
UI-09								✓						
UI-10									✓					
UI-11											✓	✓	✓	✓
UI-12											✓			
UI-13												✓	✓	
UI-14												✓		
UI-15													✓	
UI-16	✓													
UI-17	✓													
UI-18	✓													
UI-19		✓												
UI-20		✓												

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Traceability Matrix between CD-CI/SQD-CI

CD-CI/ SQD-CI	CD-CI-01	CD-CI-02	CD-CI-03	CD-CI-04	CD-CI-05
SQD-CI-01	✓				
SQD-CI-02	✓				
SQD-CI-03	✓				
SQD-CI-04	✓				
SQD-CI-05		✓			
SQD-CI-06		✓			
SQD-CI-07		✓			
SQD-CI-08		✓			
SQD-CI-09			✓		
SQD-CI-10			✓		
SQD-CI-11			✓		
SQD-CI-12			✓		
SQD-CI-13				✓	
SQD-CI-14					✓

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Traceability Matrix between CD-SV/SQD-SV

CD-SV/ SQD-SV	CD-SV-01	CD-SV-02	CD-SV-03	CD-SV-04	CD-SV-05
SQD-SV-01	✓				
SQD-SV-02	✓				
SQD-SV-03	✓				
SQD-SV-04	✓				
SQD-SV-05		✓			
SQD-SV-06		✓			
SQD-SV-07		✓			
SQD-SV-08		✓			
SQD-SV-09			✓		
SQD-SV-10			✓		
SQD-SV-11			✓		
SQD-SV-12			✓		
SQD-SV-13				✓	
SQD-SV-14					✓

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Traceability Matrix between CD-CI/ UTC-CI

CD-CI/ UTC-CI	CD-CI-01	CD-CI-02	CD-CI-03	CD-CI-04	CD-CI-05
UTC-CI -01	✓				
UTC-CI -02	✓				
UTC-CI -03	✓				
UTC-CI -04	✓				
UTC-CI -05		✓			
UTC-CI -06		✓			
UTC-CI -07		✓			
UTC-CI -08		✓			
UTC-CI -09		✓			
UTC-CI -10		✓			
UTC-CI -11			✓		
UTC-CI -12			✓		
UTC-CI -13			✓		
UTC-CI -14			✓		
UTC-CI -15			✓		
UTC-CI -16				✓	
UTC-CI -17					✓
UTC-CI -18					✓

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CD-SV/ UTC-SV	CD-SV-01	CD-SV-02	CD-SV-03	CD-SV-04	CD-SV-05
UTC-SV -01	✓				
UTC-SV -02	✓				
UTC-SV -03	✓				
UTC-SV -04	✓				
UTC-SV -05	✓				
UTC-SV -06		✓			
UTC-SV -07		✓			
UTC-SV -08		✓			
UTC-SV -09		✓			
UTC-SV -10		✓			
UTC-SV -11			✓		
UTC-SV -12			✓		
UTC-SV -13			✓		
UTC-SV -14			✓		
UTC-SV -15					✓
UTC-SV -16					✓
UTC-SV -17					✓
UTC-SV -18					✓
UTC-SV -19					✓
UTC-SV -20				✓	

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