

Use Case 2.0 Essentials

A suitable, open process that uses use cases to define a set of requirements and give the incremental development of a system its full form.

Requirements

Use Cases

System

Implementation

Verification

Validation

Use-Case Model

A model that captures and visualizes all of the useful ways to use a system.

Value Established

Structured

Describes

Requirements

Use-Case Model

Value Established

1 Primary actions have been named and fully described

2 Primary use cases have been named and fully described (i.e. in the state of the system)

3 There is an explanation of the use-case model as a whole

1.1

Describes

Requirements

Use Case

Sufficient Stories Fulfilled

1 Basic flow implemented and tested

2 Enough alternative flows implemented

3 Enough error handling implemented

4 Enough error cases have been 'verified'

1.1

Describes

Requirements

Use Case

All Stories Fulfilled

1 All stories implemented and tested

2 All use case slices are 'verified'

1.1

Describes

Requirements

Use-Case Slice

One or more stories extracted from a use case to form a work item that is of use value to the customer.

1 Sliced

2 Prepared

3 Analyzed

4 Implemented

5 Verified

1.1

Describes

Requirements

Use-Case Narrative

Briefly Described

1 The use case has been named

2 There is short and informative brief description

1.1

Describes

Requirements

Use-Case Narrative

Substantially Outlined

1 The basic flow of the use case has been described using simple sentences organized into sequential steps

2 There are individual steps for each actor and system responsibility

1.1

Describes

Requirements

Use-Case Narrative

Essential Outline

1 The use case has been expressed as a single sentence between the actor and the system

2 There are individual steps for each actor and system responsibility

1.1

Describes

Requirements

Use-Case Model

System Boundary Established

1 Primary actors named

2 Secondary actors and use cases identified

3 Each actor and use case appears in at least one use case diagram

4 All relevant opportunity items are mapped to use cases, actors or other requirements

1.1

Describes

Requirements

Use-Case Model

Structured

1 Each use case is a single sentence that describes a specific use of the system

2 The use case is a single sentence that describes a specific use of the system

3 The use case is a single sentence that describes a specific use of the system

4 The use case is a single sentence that describes a specific use of the system

1.1

Describes

Requirements

Use Case

All the ways of using a system to achieve a particular goal for a particular user

1 Goal Established

2 Story Structure Understood

3 Stories Fully Fulfilled

4 Sufficient Stories Fulfilled

5 All Stories Fulfilled

1.1

Describes

Requirements

Use-Case Slice

Scoped

1 Stories have been identified

2 Requirements covered are clear

3 Implementation work has been estimated

1.1

Describes

Requirements

Use-Case Slice

Prepared

1 In scope requirements are agreed

2 Test cases are sufficient for verification

3 Tests are well-defined

1.1

Describes

Requirements

Use-Case Slice

Analyzed

1 Enough information is known to successfully implement

2 Implementation is agreed to be implemented

3 Impact is acceptable

4 Clear relationships are 'Implementation Elements Identified'

1.1

Describes

Requirements

Use-Case Narrative

Fully Described

1 Each step in each flow of events has been described in detail

2 The flow of events is clear and logical

3 All decision points and calculations are complete and clearly defined

4 All data and information are complete and clearly defined

5 All data and information are complete and clearly defined

1.1

Describes

Requirements

Use-Case Realization

Shows how the system's elements, such as components, programs, stored procedures, configuration files and data base tables, collaborate to perform a use case.

1 Implementation Elements Identified

2 Implementation Elements Identified

3 Implementation Elements Identified

1.1

Describes

Requirements

Use-Case Realization

Implementation Elements Identified

1 The participating elements have been defined

2 The participating elements have been defined

3 The participating elements have been defined

1.1

Describes

Requirements

Use Case

Goal Established

1 Primary actors named

2 Goal and value clearly described

3 Stakeholders agree upon the goal

4 In or out of scope

5 Use case identifier is briefly described

1.1

Describes

Requirements

Use Case

Story Structure Understood

1 Basic flow understood

2 Nature of other flows understood

3 Start and end are clear

4 Most common stories identified

5 Use case identifier is briefly described

1.1

Describes

Requirements

Use Case

Simple Story Fully Fulfilled

1 Applicable use case slice is 'verified'

1.1

Describes

Requirements

Use-Case Slice

Implemented

1 Code built for the slice

2 Implementation elements are verified

1.1

Describes

Requirements

Use-Case Slice

Verified

1 Tests have executed successfully

2 Software system passes sufficient test cases

3 Test cases added to regression suite

1.1

Describes

Requirements

Use-Case Narrative

Tells the story of how the system and its actors work together to achieve a particular goal

1 Briefly Described

2 Substantially Outlined

3 Essential Outline

4 Fully Described

1.1

Describes

Requirements

Use-Case Realization

Responsibilities Allocated

1 Responsibilities from relevant flows have been allocated to the elements of the implementation

2 The implementation elements are complete and clearly defined

3 The implementation elements are complete and clearly defined

1.1

Describes

Requirements

Use-Case Realization

Interaction Defined

1 Interactions have been defined for the elements of the implementation

2 The interactions have been defined for the elements of the implementation

3 The interactions have been defined for the elements of the implementation

1.1

Describes

Requirements

Supporting Information

Capture important items used to describe the system, and any and all of requirements that don't fit inside the use-case model

1 Initial

2 Briefly Defined

3 Modelled and Illustrated

4 Complementarily Defined

1.1

Describes

Requirements

Supporting Information

Initiated

1 There is a document or some other resource for recording the individual items of supporting information

1.1

Describes

Requirements

Supporting Information

Simply Defined

1 A list of definitions has been created

2 All definitions have a description, even if only short

1.1

Describes

Requirements

Supporting Information

Modelled and Illustrated

1 Some kind of model exists that holds the information clearly and appropriately

2 Examples of the most important information items have been described

1.1

Describes

Requirements

Use Case Test Case

Scripted or Automated

1 Test data is available

2 All steps in the test case are defined and scripted

3 Test cases are designed and scripted

4 Test cases are designed and scripted

5 Test cases are designed and scripted

1.1

Describes

Requirements

KEY OR LEGEND

Use Case Model

1 Use Case

2 Use Case Slice

3 Use Case Narrative

4 Use Case Realization

5 Supporting Information

Card Pack Contents

Card Pack Contents

1 Card Pack Contents

2 Card Pack Contents

3 Card Pack Contents

4 Card Pack Contents

5 Card Pack Contents

Supporting Information

Comprehensively Defined

1 All requirements and definitions are clear, unambiguous, testable and complete

1.1

Describes

Requirements

Use Case Test Case

Variables Identified

1 The variables to be examined are clearly defined

2 The start and end states for the variables are defined

1.1

Describes

Requirements

Use Case Test Case

Test Ideas Formulated

1 The results for the test case are clear

2 The results for the test case are clear

3 The results for the test case are clear

1.1

Describes

Requirements

Use Case Test Case

Scenario Chosen

1 The scenario to be examined is clearly defined

2 The start and end states for the scenario are defined

1.1

Describes

Requirements

Use Case Test Case

Variables Identified

1 The variables to be examined are clearly defined

2 The start and end states for the variables are defined

1.1

Describes

Requirements

Use Case Test Case

Variables Set

1 The variables to be examined are clearly defined

2 The start and end states for the variables are defined

1.1

Describes

Requirements