# **Test Case Specifcation (TCS)**

for

<Project>

on case

< ID>: <TestCase Title>

<version> approved

Prepared by <author>

<Organization>

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# 1. History

# 1.1. Revision History

Date	Version	Author	Change description/reason
<date created=""></date>	<x.y></x.y>	<created by=""></created>	Initial document
<last updated=""></last>	<x.y></x.y>	<updated by=""></updated>	

- <Created By: name of the person who initially documented this test case.>
- <Date Created: date yyyy.mm.dd on which the test case was initially documented.>
- <Updated By: name of person, who performed the most recent update to the test case description.>
- <Last Updated: date yyyy.mm.dd on which the test case was most recently updated.>

# 1.2. Review History

Date	Version	Reviewers	Comment
<review date=""></review>	<x.y></x.y>	<reviewed by=""></reviewed>	
<review last=""></review>	<x.y></x.y>	<reviewed by=""></reviewed>	

< Reviewed Date: name of person who performed the initial review of the test case documentation. >

< Reviewed Last: name of person who performed most recent review of test case documentation. >

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### 2. Introduction

## 2.1. Document purpose

<Explains in simple laymans terms what this test case is all about. Describes the physical task being performed – and expected outcome. All seen from actors point of view. This description should be understood from both business department representatives and techical staff.>

### 2.2. Target audience

<Explains in simple laymans terms, who this document addresses. Potential groups could be:

- business representatives (who put forward demands and approves compliance with business understanding) OUT WARRANTY OF ANY KIND,
- system testers (ensures delivery complies with demands) BUT NOT
- user testers (ensuring that business goals are achieved). A
- projectleaders
   PARTICULAR PURPOSE AND
   NONINFRINGEMENT. IN NO EVENT SHALL
   THE AUTHORS OR COPYRIGHT HOLDERS BE

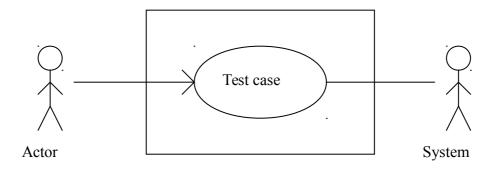
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Explains in simple laymans terms what this test case is all about Section

	eMtITH THE DOCUM			Link
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Non-functional demand	ds DEDDECENTAT	IS CORPORA	TION MAKES	
Business termns expla	ination, plusty of the	IONS ABOUT	T FOR ANY	
Data model documenta	ation <sub>RPOSE</sub>	X.X	(1101(7)(1)	
Use case		X.X		
				· · · · · · · · · · · · · · · · · · ·

#### 2.4. Overview

<Diagrams illustrating how actors relates to this test case. Outlines which actors are involved.>



# 3. Test Case Description/Definition

### 3.1. Test Case <ID> : <Name> Description

<It is always necessary to apply a strategy for ordering test cases and accordingly give them a unique integer sequence number identifier. If ordering test cases in hierarchical groups, a hierarchical form: X.Y.Z. ... may be applied.</p>

Apply a concise, catching, results-oriented name for the test case. Possibly an appropriate "one-liner" reflecting the tasks the user needs to be able to accomplish using the system. Include an action verb and a noun.

In the description part, provide a brief description of the reasons for and outcome of this test case, or a high-level description of the sequence of actions and the outcome of executing the procdure. Which parts of the demand specification are metalliand how are they met?!

LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A

3.2. Actor list Particular purpose and Noninfringement. In No event shall

<Actor is a person, system of other external body to the software system engaging in the story of the usecase - interacting and performing actions to accomplish use case tasks. For the use case, all actors and their type should be specified. Possible types are: ION</p>

- Initiator Actor defines the initiating actor who generates the starting stimulus causing possible further action with other participating actors.
- Primary Actors The Actor (s) Ensing the system to achieve a goal. The Use Case documents the interactions between the system and the actor atomic the goal of the primary actor. NO REPRESENTATIONS ABOUT THE
- Secondary Actors are required by the system for assistance to achieve the primary actors goal.

# 3.3. Trigger

<Trigger event specifies the action which initiates the test case - taking test case from start to the goal (success scenarios). Trigger could either be an external event starting the test case or it the first step in the primary flow.>

# 3.4. Assumption list

<Describes simplifying assumptions, which is a requirement for the understanding of the test case – but may not be logical under all circumstances. Assumptions could also include circumstances which are invariants throughout the process. The difference from precondition is that a precondition is something concrete – which may be tested – while an assumption is possibly more abstract.>

#### 3.5. Precondition list

<List general activities or conditions, which are a required for valid execution of the test case.</p>
Preconditions should be numbered and listed.>

### 3.6. Postcondition list (expected outcome)

<Describes general characteristics for the state of the system after test case execution. This may include a description of the accomplished success scenario/criteria. Concrete defined goals will allow more straightforward planning of practical tests and enable more effective evaluation, if intended scenario/criteria is actually reached. Number each postcondition.>

## 3.7. Primary Flow (Normal Flow)

<There are following types of flows:</p>

- primary flow (normal flow)
- alternative flow

error flow
 THE DOCUMENT IS PROVIDED "AS IS".

Primary Flow is a demonstration of the most important test case story. It provides a description of the actor actions and system responses (sequence of steps), which will occur during execution of the test case under most common expected conditions. The achieved success scenario/criteria should meet business requirements as required for the test case.

Primary flow is presented as a numbered list of actions performed by the involved actors and corresponding system response AUTHORS OR COPYRIGHT HOLDERS BE

All flows are normally provided with an index nathber and organized in a list. Characteristic for the primary flow is that it still all benefits and company flow is the first and company flow in the list of all

possible flow scenarios. OF CONTRACT, TORT OR OTHERWISE,

ARISING FROM, OUT OF OR IN CONNECTION WITH THE DOCUMENT OR THE USE OR

OTHER DELOW SCENARIO #10(Primary 160w)				
Step	Actor inputoLUTIONS CORPORATION MAKIS stem response			
1	NO REPRESENTATIONS ABOUT THE			
2	PURPOSE			
3	TOTA OOL			
4				
5				

#### >

# 3.8. Primary Flow Postconditions

<May describes postcondition success criterias, which are specific for a primary flow. Remember to be concrete in order to facilitate practical and reproducable tests.>

#### 3.9. Alternative Flows

<Alternative flows are other flows, where are also valid for the current test case. However, they often demonstrate the business case objective differently or slightly less clearly than the primary flow.</p>

Alternative flows are specified as a numbered list of actions as previously described.

Alternative flows could be flows, which takes the same offset as the primary flow – but can proceed in a different direction from a specific point. When specifying an alternative flow, the steps shared with the primary flow are not listed. Only the difference in sequence of steps are listed. The flow uses the same numbering notation from primary flow to specify clearly, where the flow breaks away from previously. If the alternative flow fx. specifies steps 3 & 4 it is implicitly assumed that these steps are preceded and followed by corresponding prior steps 1,2 and 5 from the primary flow. If more steps are needed, it is possible to introduce other numbering 3a, 3b,... 4a, 4b,... >

	Flow Scenario #2 (Alternative flow)			
Step	Actor input	System response		
3				
4				

#### 3.10. Error Flows

THE DOCUMENT IS PROVIDED "AS IS",

Error flows specifies specific error situations, which may be anticipated during the test case story. The error flows will explains, show the actors and systems involved should handle (overcome) problems - or how to engage other external body to resolve the situation.

Error flows are specified specified as a numbered list of actions as previously described.

NONINFRINGEMENT. IN NO EVENT SHALL

	LIABLE FOR Flow, Scenario #3 (Error flow)
Step	Actor input BILITY WHETHER IN AN ACTION System response
3	OF CONTRACT, TORT OR OTHERWISE,
4	ARISING FROM, OUT OF OR IN CONNECTION
	WITH THE DOCUMENT OR THE USE OR
	OTHER DEALINGS IN THE DOCUMENT.
	TECHNOSOLUTIONS CORPORATION MAKES
>	SUITABILITY OF THIS DOCUMENT FOR ANY

# 3.11. Exceptions fist

<An exception is a possible error condition, which might occur while executing the test case steps. It represent a shorter notation than providing a specific error flow. When specifying an exception, it should also be noted how the system should respond to the situation (fx. halt execution completely, perform a transaction rollback, partial completion, sending request for interaction to an actor, etc.). >

#### 3.12. Includes list

<For an test case it should always be listed which other test cases, which might be included ("called") from this test case. By including (re-using) test cases into each other, repetition of identical functionality is avoided.>

#### 3.13. Extends list

<For an test case it should be listed which other test cases, might be extended ("extending test case continues behavior from another").>

## 3.14. Frequency of Use

<For performance considerations it is necessary to specify how often this test case is intended to be performed in a larger context. When executed rarely, implementation may not need to take special consideration to performance. When performed very frequently within a unit of</p>

time, then performance optimizations may become a key issue. Specifying frequencey of test may avoid that the implementation is later put in a context, which is was not originally designed for.>

#### 3.15. Business Rules list

<Business rules, which might influence this test case. May specify validations rules required for input entered. If some input is missing, it can be specified how to overcome the situation by obtaning the information indirectly from other fields.>

## 3.16. Additional Requirements list

<May list special requirements from other documents, which are relevant for the current test case. Normally non-functional or other general requirement should be placed in another document, which is general for all test cases. Tx. is search should be performed case-sensitive or not – which can have a larger and general impact for all search uses cases: "Search Customer", "Search Address", "Requirement about how quickly dependant systems are updated, if this may be done in parallel, etc. large also relevant of matter or subsequent design and implementation. ARTICULAR PURPOSE AND</p>

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# 3.17. Notes and Outstanding issues or Other Liability, whether in an action

<Information not suitable elsewhere May include notes of caution or specification of issues, which are not resolved at the time, the test case was written (TBD: To be Determined). It may be attempted to identify, who is most suitable to resolve issue, and the time frame involved.>

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# 3.18. Improvements of this document for any

<List any additional improvements for this test case.>

**PURPOSE** 

# 4. Test Case Summary

#### 4.1. Quick overview

The requirements above can be summariezed in an overview template:

# **Project ID:** Test Case ID:

# **Test Case Template**

Use Case ID: <id> Test Designed by: <Name of test case responsable party>

Test Priority (Low/Medium/High): <business value> Test Designed date: <Date>

Module Name: <name of context> Test Executed by: <Name>

Test Title: <title> Test Execution date: <Date>

#### **Pre-conditions:**

<System need to be brought to re-produced / pre-defined offset for test>

Step	Performed Steps	Test Case Data	<b>Expected Result</b>	Actual Result	Status (Pass/Fail)	Notes
1	< Navigate to offset for test>					
2	<enter data="" test=""></enter>	<input data=""/>				
3	<submit data="" test=""></submit>					
4	<check for="" response=""></check>	<reponse data=""></reponse>				

## Post-conditions:

<System need to respond with correct data in correct way>