

**Example Template** 

What is Traceability Matrix? (TM) A Traceability Matrix is a document that corelates any two-baseline documents that require a many-to-many relationship to check the completeness of the relationship. It is used to track the requirements and to

Big Data ∨

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check the current project requirements are met.

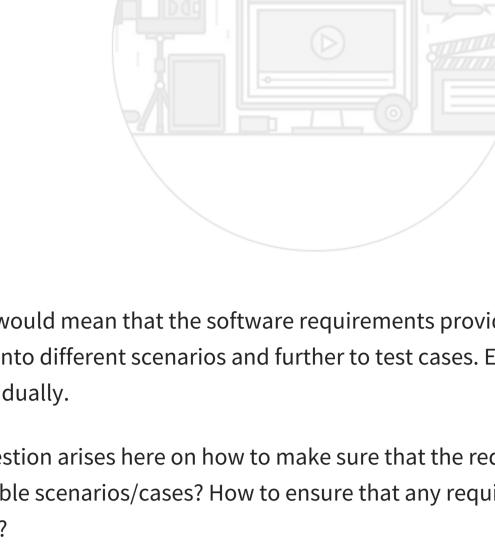
What is Requirement

## Requirement Traceability Matrix (RTM) is a document that maps and traces user requirement with test cases. It captures all requirements proposed by the client and

**Traceability Matrix?** 

requirement traceability in a single document, delivered at the conclusion of the Software devlopement life cycle. The main purpose of Requirement Traceability Matrix is to validate that all requirements are checked via test cases such that no functionality is unchecked during Software testing. In this tutorial, you will learn more about-

- Advantage of Requirement Traceability Matrix
- Requirements Traceability Matrix (RTM) Template
- Why RTM is Important?
- The main agenda of every tester should be to understand the client's requirement and make sure that the output product should be defect-free. To achieve this goal, every QA





cases. This merely is termed as 'Requirement Traceability Matrix.' The traceability matrix is typically a worksheet that contains the requirements with its all possible test scenarios and cases and their current state, i.e. if they have been passed or

the specific product.

Matrix? • Requirement ID

TC01-Pass TC01,TC02,TC03 Login to the 123 TC02-Pass application TC04,TC05,TC06, TC04-Pass TC07,TC08,TC09 Ticket Creation TC05-Pass TC010 TC06-Pass

TC011,TC012,

TC013,TC014

TC06-Fail

TC011-Pass

TC012-Fail

TC013-Pass

TC07-No Run

- 345

Requirement Type and Description

												TC	014-N	lo Rur	n	
Ab	ove	is a	samı	ole requ	ıirem	nent	tracea	ability ma	atrix.						_	
Вι	ıt in	a ty <sub>l</sub>	pical	softwa	re tes	sting	proje	ct, the tr	aceabi	lity n	natri	x wo	uld h	iave	more t	than these
pa	aram	neter	s.													
A	A	8	С	D	E	F	G	Н	1	J	K	L	M	N	0	Р
3		Sno	Req ID	Req Desc	TCID	TC Desc	Test Design	Test Designer	UAT Test Req?		est Executi		Defects?	Defect ID	Defect Status	Req Coverage Status
5		:	1_ Req01	Login to the Application	TC01	Login with Invalid Usernam e and valid password Login with Valid Usernam e and	Completed	xyz	No	Passed		Prod Env	None	None	N/A	Partial

Apart from maintaining an excel separately. A testing team can also opt for requirements tracing available Test Management Tools.

captured in the same matrix.

• Show the requirement coverage in the number of test cases

• Design status as well as execution status for the specific test case

- Types of Traceability Test Matrix In Software Engineering, traceability matrix can be divided into three major component as
- applied to the product and that each requirement is tested thoroughly. It maps requirements to test cases. • Backward or reverse traceability: It is used to ensure whether the current product

the desired direction and for the right product. It makes sure that each requirement is

• Forward traceability: This matrix is used to check whether the project progresses in

• If there is any User Acceptance test to be done by the users, then UAT status can also be

• The related defects and the current state can also be mentioned in the same matrix.

This kind of matrix would be providing **One Stop Shop** for all the testing activities.

remains on the right track. The purpose behind this type of traceability is to verify that we are not expanding the scope of the project by adding code, design elements, test or

## that all requirements are covered by test cases. It analyzes the impact of a change in requirements affected by the **Defect** in a work product and vice versa.

**Requirement Document (TRD)**, testers start writing test cases.

Applicable

Roles

Business Requirement # for

Manager

Customer

Manager

Customer

BR#

В1

B3

Module

Login and

Fund Transfer

Logout

Name

Let's understand the concept of Requirement Traceability Matrix through a Guru99 banking project. On the basis of the Business Requirement Document (BRD) and Technical

Let suppose, the following table is our Business Requirement Document or BRD for **Guru99** banking project.

Guru99 banking project B2 ustomer: A customer can have multiple bank accounts. He can view balance of his accounts only Customer Enquiry Manager: A manager can view balance of all the customers who come under his supervision

Note: QA teams do not document the BRD and TRD. Also, some companies use Function Requirement Documents (FRD) which are similar to Technical Requirement Document but the process of creating Traceability Matrix remains the same. Let's Go Ahead and create RTM in Testing **Step 1:** Our sample Test Case is "Verify Login, when correct ID and Password is entered, it should log in successfully" TestCase **Test Case Test Steps Test Data Expected Result**  Go to Login Page 2) Enter UserID id= Guru99 1 Verify Login Login Successful 3) Enter Password pass= 1234 Click Login When correct password and id entered, it should login successfully

Step 2: Identify the Technical Requirement that this test case is verifying. For our test case,

**T94** If userid and password are valid. Login

T94 is our technical

requirement that verifies

successful login

Step 4: Identify the Business Requirement for which this TR (Technical Requirement-T94) is

**Test Data** 

id= Guru99

pass= 1234

Expected

Expe

Login Successful

Login Successful

**Technical Business Requirement Test Case** Requirement # ID **B**1 T94 **B2** T95 **B3** T96 **B4** T97

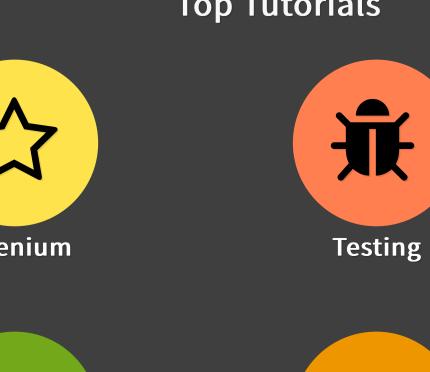
Step 6: Do above for all Test Cases. Later Extract the First 3 Columns from your Test Suite.

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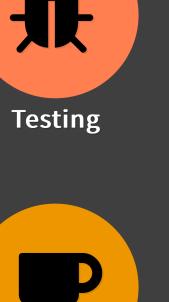
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Hacking



• Why RTM is Important? • Which Parameters to include in Requirement Traceability Matrix? Types of Traceability Test Matrix • How to create Requirement Traceability Matrix

should understand the requirement thoroughly and create positive and negative test cases. **FEATURED VIDEOS** 

This would mean that the software requirements provided by the client have to be further split into different scenarios and further to test cases. Each of this case has to be executed individually. A question arises here on how to make sure that the requirement is tested considering all possible scenarios/cases? How to ensure that any requirement is not left out of the testing cycle?

A simple way is to trace the requirement with its corresponding test scenarios and test

failed. This would help the testing team to understand the level of testing activities done for Which Parameters to include in Requirement Traceability

• Test Cases with Status Testcase ID Status Req No Req Desc

- 456
- Search Ticket

Α	В	С	D	E	F	G	Н	1	J	K	L	М	N	ļ
	Sno	Req ID	Req Desc	TC ID	TC Desc	Test Design	Test Designer	UAT Test Req?	т	est Executi	ion	Defects?	Defect ID	Ī
				-					Test Env	UAT Env	Prod Env			_
		1 Req01	Login to the Application	TC01	ogin with invalid Usernam e and valid password  Login with Valid Usernam e and	Completed	хүz	No	Passed	No Run	No Run	None	None	
					invalid	Completed	w2.	No.	Barrad	No Bure	No Buo	None		l
		-			login with valid credentia	Completed	TEA	No	Passed	No Run	No Run	None	None	ľ
		3		TC03	5	Completed	XYZ	Yes	Passed	Passed	No Run	Yes	DFCT001	ľ

mentioned below:

How to create Requirement Traceability Matrix

other work that is not specified in the requirements. It maps test cases to requirements.

• Bi-directional traceability (Forward+Backward): This traceability matrix ensures

Here the scenario is that the customer should be able to login to Guru99 banking website with the correct password and user#id while manager should be able to login to the website through customer login page.

Description

Customer: A customer can login using the login

f customer. Post Login homepage will show

**Customer:** A customer can have transfer funds

from his "own" account to any destination account.

Manager: A manager can transfer funds from any

Document)

fferent links based on role

Manager: A manager can login using the login page

While the below table is our **Technical Requirement Document (TRD)**. Login Here is our TRD (Technical Requirement **T92** User-ID must not be blank

**T94** If userid and password are valid. Login

**T93** Password must not be blank

3 4 Requirement Traceability Matrix

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Step 3: Note this Technical Requirement (T94) in the Test Case. **TestCase** Note the Technical **Test Steps** TR# Requirement in the test case Go to Login Page 2) Enter UserID 1 T94 Verify Login 3) Enter Password 4) Click Login defined BR# Module **Applicable** Description Name Roles B1 Customer: A customer can login using the login Login and Manager Customer page Logout Manager: A manager can login using the login page Identify the Business Requirement of customer. Post Login homepage will show for Which T94 is defined different links based on role Step 5: Note the BR (Business Requirement) in Test Case

TR#

T94

**Test Case** 

Verify Login

**Test Steps** 

Go to Login Page Enter UserID

3) Enter Password

**Test Data** 

id= Guru99

pass= 1234

How to Create Partilhar

Requirement

TestCase

BR#

RTM in testing is Ready!

the technical requirement is T94 is being verified.

**Advantage of Requirement Traceability Matrix** • It confirms 100% test coverage • It highlights any requirements missing or document inconsistencies • It shows the overall defects or execution status with a focus on business requirements • It helps in analyzing or estimating the impact on the QA team's work with respect to

Let's learn RTM with an example in the Video

Requirement Traceability Matrix (RTM) in Softw...

revisiting or re-working on the test cases

**Taceability Matrix** 

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