

# Requirements Traceability Matrix Templates

## Project Requirements Traceability Matrix with Verification and Validation

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Project Manager	William Byrne			Project id:	XX-XXXX-XX			
Project Sponsor	Tobias Wallace			Project Title:	ABC Project			
Requirement Information				Relationship Traceability				
ID	CATEGORY	REQUIREMENT	PRIORITY	SOURCE	BUSINESS OBJECTIVE	DELIVERABLE(S)	VERIFICATION	VALIDATION
AD-001	Compulsory	<ul style="list-style-type: none"> <li>Potential For Consumers To Check The Knowledge Base For Solutions To Broadband Problems</li> <li>Add Text Here</li> </ul>	HIGH	CTO	<ul style="list-style-type: none"> <li>Increase Self-service Resolution Rate By 12%</li> <li>Add Text Here</li> </ul>	<ul style="list-style-type: none"> <li>Knowledge Base Module</li> <li>Add Text Here</li> </ul>	<ul style="list-style-type: none"> <li>Business Objective Achievement Within 1 Year</li> <li>Add Text Here</li> </ul>	Unit Test And UAT.
AD-002	Good to Have	<ul style="list-style-type: none"> <li>Ability For Customers To See Knowledge Articles Recently Viewed In My Account Area</li> <li>Add Text Here</li> </ul>	LOW	Add text here	<ul style="list-style-type: none"> <li>Add Text Here</li> </ul>	<ul style="list-style-type: none"> <li>Add Text Here</li> </ul>	<ul style="list-style-type: none"> <li>Add Text Here</li> </ul>	Add Text Here

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- A **requirements traceability matrix** is a document which demonstrates how requirements relate to other artefacts.
- It is used to demonstrate that requirements have been met. It is also used to document requirements, tests, test results, and issues.

## Business and Stakeholder Requirements Traceability Matrix

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Requirements Breakdown Structure			Traceability Matrix	
ID	Name	Date identified	Role in requirement	Importance requirement
<b>Business Requirements (BR)</b>				
BR - 1	Training to new employees	02-09-2020	Requester	High
BR - 2	Project and value management	02-09-2020	Requester	High
BR - 3	Text here	Text here	Text here	Text here
BR - 4	Text here	Text here	Text here	Text here
ID	Stakeholder Requirements (SR)	Date identified	Impact	Importance requirement
SR - 1	Business readiness with pre-requirements	02-09-2020	Not impacted	Medium
SR - 2	Project testing strategy	02-09-2020	Not impacted	Medium
SR - 3	Organization rules and policies	03-09-2020	Impacted	Medium
SR - 4	Requirement of configuration document	03-09-2020	Impacted	Low
Text here	Text here	Text here	Text here	Text here
Text here	Text here	Text here	Text here	Text here

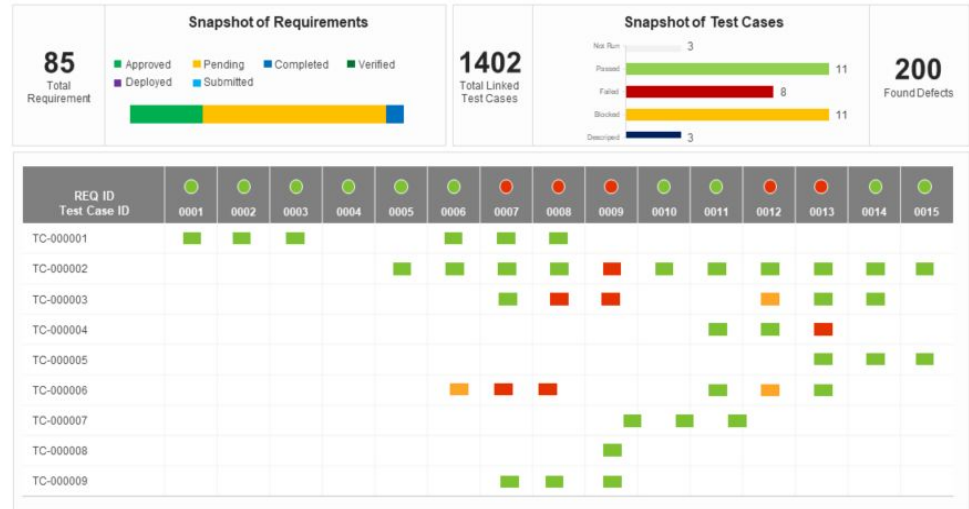
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A requirement traceability matrix is made up of four basic elements:

- a requirement identifier
- a requirement summary text,
- a test case identifier
- a test case status.

## Requirements Traceability Matrix with Test Cases

This graph/chart is linked to excel, and changes automatically based on data. Just left click on it and select "edit data".



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- The organisation of data according to a database model is known as **database design**.
- The designer decides what data must be stored and how the data elements interact with one another.
- With this knowledge, they can start fitting the data to the database model.

## Requirements Matrix Functions Design Development Testing

Requirements				Functions			Design			Development		Testing		
Business Requirement	Technical Requirements	User Requirements		F.unc.	Sub F.unc.		LLD	HLD	Database Design	Development Module No.	Unit Testing	SIT	UAT	
Text Here	-	Text Here	-	Text Here	-	Text Here	Text Here	-	Text Here	Text Here	-	Text Here	-	Text Here
-	Text Here	-	Text Here	-	Text Here	-	-	Text Here	-	-	Text Here	-	Text Here	-
Text Here	-	Text Here	-	Text Here	-	Text Here	Text Here	-	Text Here	Text Here	-	Text Here	-	Text Here
-	Text Here	-	Text Here	-	Text Here	-	-	Text Here	-	-	Text Here	-	Text Here	-

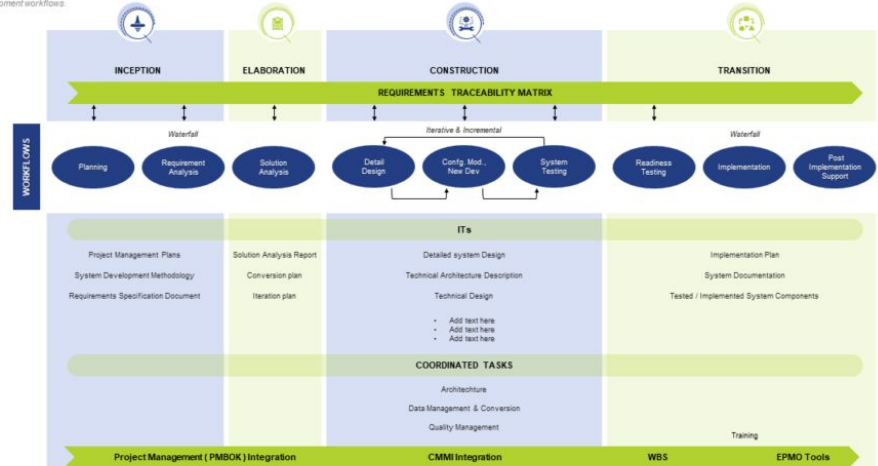
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- **The Requirements Management plan** is used to document the details needed to effectively manage project requirements from definition to delivery.
- The Requirements Management Plan is developed during the project's Planning Phase.

### ► Requirement Management Plan

This slide covers the requirement management plan communicating with the other primary interrelated software development methodologies' workflow to achieve the goals. Also covers the requirement analysis workflow with the other software development workflows.



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- **Customer requirements** are the specifications or features of a product or service that customers deem necessary.
- These specifications encourage customers to purchase a product or service.

## Customer and Technical Requirements Interrelationship Matrix

This slide shows interrelationship matrix of customer and technical requirements. It contains information about primary requirements such as product aesthetics, performance, material selection, manufacturing process, etc.



		Technical Requirement (How s)							
		Material Selection			Manufacturing Process				
Customer Requirements (Whats)	Primary	Secondary							
	Secondary	Steel	Aluminum	Titanium	Welding	Dye Casting	Cleansing	Forging	Add Text Here
Aesthetics	Cost Effective	●	●	△	●	○	●	○	△
Sleek Design			△	△	△	●	○	○	●
Optimal Finishing		○	●	●	△	●	△	○	○
Performance	Resistant to Corrosion	△	●	●	△	○	○	○	○
Add Text Here		△	○	●	xx	xx	xx	xx	△
Build Quality		●	○	●	△	○	○	●	△
Durability		●	○	○	△	●	○	●	○

**Legend**  
Relation between customer and technical requirements

- Strong +9
- Medium +3
- △ Weak +1

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- A **test strategy** is an outline that describes the software development cycle testing approach.
- A test strategy's purpose is to provide a rational deduction from organisational, high-level objectives to actual test activities that will meet those objectives from a quality assurance standpoint.

## Requirements Traceability Matrix with Test Strategy

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Unique Req ID	Requirement Description	Source/Req uestor	Org/Dept	Business Justification /Need	Test Strategy	UAT Responsibility	Status	Active/Inactive Flag	Timeline
1	<ul style="list-style-type: none"> <li>◀ Modify dashboard table component to graph</li> <li>◀ Text here</li> </ul>	Saminy hodes	Sales	<ul style="list-style-type: none"> <li>◀ Improved data readability</li> <li>◀ Text here</li> </ul>	<ul style="list-style-type: none"> <li>◀ Use cases to be developed</li> <li>◀ Text here</li> </ul>	<ul style="list-style-type: none"> <li>◀ Follow steps and report defects</li> <li>◀ Text here</li> </ul>	Done	Active	<ul style="list-style-type: none"> <li>◀ Aug 10 – Testing</li> <li>◀ Aug 12 – Defect report</li> <li>◀ Aug 13 – Defect fix</li> </ul>
2	<ul style="list-style-type: none"> <li>◀ Add lists for local regions</li> <li>◀ Text here</li> </ul>	Andrew hodes	Sales	<ul style="list-style-type: none"> <li>◀ Allocate area manager to understand market</li> <li>◀ Text here</li> </ul>	<ul style="list-style-type: none"> <li>◀ Load testing</li> <li>◀ Text here</li> </ul>	<ul style="list-style-type: none"> <li>◀ Loadrunner used to verify accurate representation</li> <li>◀ Text here</li> </ul>	In Progress	Active	◀ Text here
3	◀ Text here	Text here	Text here	◀ Text here	◀ Text here	◀ Text here	Hold	Text here	◀ Text here
4	◀ Text here	Text here	Text here	◀ Text here	◀ Text here	◀ Text here	Text here	Text here	◀ Text here
5	◀ Text here	Text here	Text here	◀ Text here	◀ Text here	◀ Text here	Text here	Text here	◀ Text here

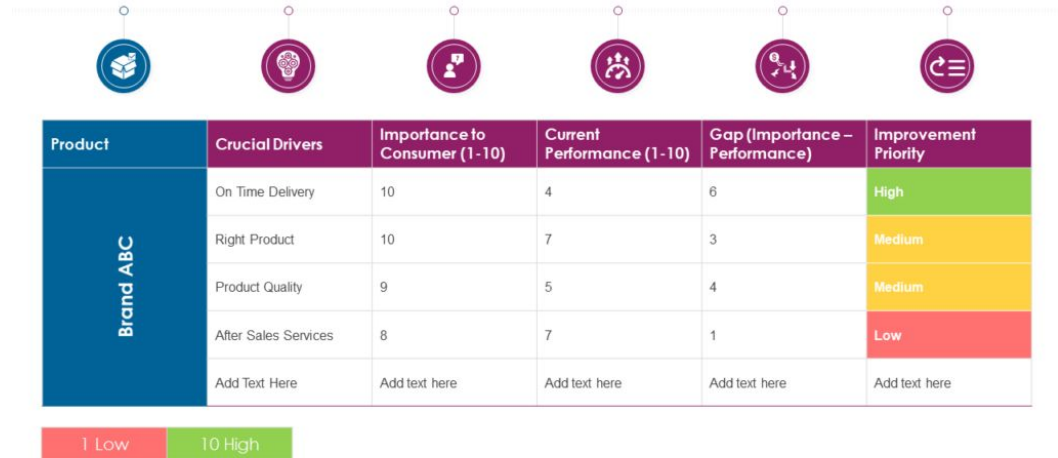
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## Process for determining customer requirements:

- Collect raw customer data.
- Analyze the data in terms of customer requirements.
- Organize the requirements.
- Consider the Process.

### Customer Requirements Matrix with Key Drivers

This slide demonstrates customer requirements matrix with key drivers. It includes information about importance to customer, gap, improvement priority, right product, well timed delivery, etc.



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# FAQs

## What are the types of traceability of requirements?

The three types of traceability requirements are

- forward traceability
- backward traceability matrix
- bidirectional traceability.

## In testing, who prepares RTM?

- The RTM for each assigned module will be created by the test engineer and sent to the test lead.

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- The test Lead will check the repository to see if the Test Case is present.
- Then compile and create only one required RTM document.

### **What are the steps in database design?**

- The database development life cycle consists of eight steps that guide us through the process of creating a new database.
- Planning, requirement gathering, conceptual design, logical design, physical design, construction, implementation and rollout, and finally ongoing support are the steps involved.

## What are the technological requirements for business?

- Technical requirements provide an opportunity to communicate business expectations for a technology's end-to-end operational quality.
- As a result, fully delegating them to implementers may be a bad idea, though they should certainly contribute. Smart technical requirements are typically designed.

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