



## Requirement Analysis

Internship training



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# Agenda

- What is Requirement Analysis
- How Requirement analysis can be performed
- Advantages of Requirement analysis
- Purpose of Requirement traceability matrix
- RTM Template
- Demo

# What is Requirement Analysis?

- Requirement analysis is the process of determining client expectations for a new or modified product.
- The intent is to brainstorm and clarify any ambiguous requirements before getting to the next phase and to precisely define

# How requirement analysis will be done?

- A typical Requirement Analysis process should identify testable requirements through frequent interactions with various stakeholders (Client, Business Analyst and Technical Leads etc.).
- Requirements must be uniquely identified, Complete, Consistent and unambiguous, prioritized.



# How requirement analysis will be done?

## **Uniquely Identifiable.**

Incorrect: Students will be able to enroll to undergraduate and post graduate courses

Correct: Students will be able to enroll to undergraduate courses

Students will be able to enroll to post-graduate courses

## **Complete.**

Incorrect : A professor user will log into the system by providing his username, password, and other relevant information

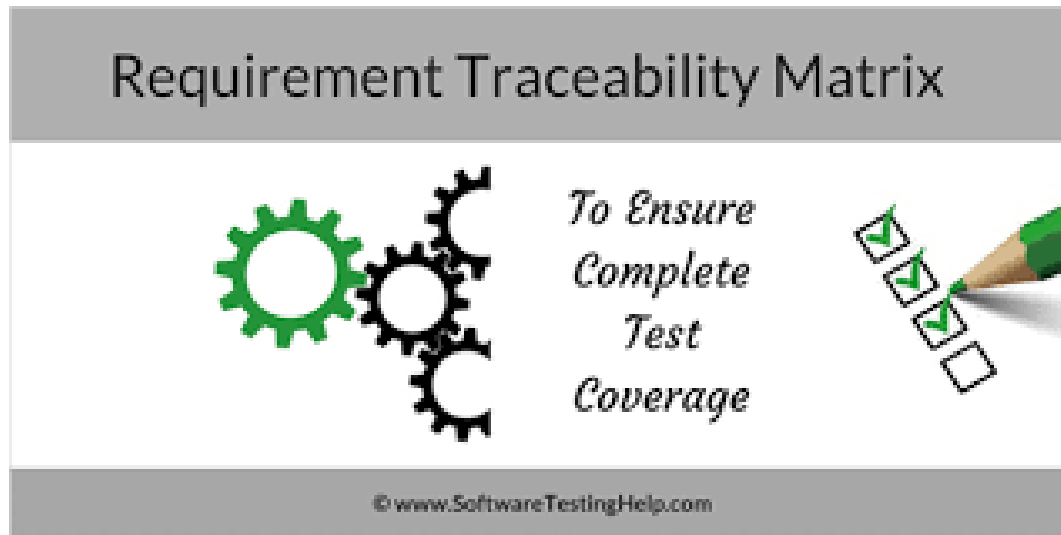
Correct: A professor user will log into the system by providing his username, password and department code

## **Consistent and unambiguous.**

Incorrect: Payroll data of employees will be shown to all upon logging into the HR application.

Correct: Payroll data of employees will be shown upon logging into the HR application as a HR manager

# Purpose of RTM



- Requirement traceability matrix ensures the better test coverage by tracing the all requirements and mapping with corresponding test scenarios, test cases and bugs.
- RTM could be maintained in Excel or any other Test management tools

# Advantages

- Seamless traceability
- Better test coverage
- Better Documentation
- Quality delivery in timely manner

# Sample BRD

	A	B	C
1	Requirement Id	Req Description	Priority
2	BRD_1	Login	High
3	BRD_2	Loan Process	Low
4	BRD_3	How to Use	Medium
5	BRD_4	Customer Ease of Use	Low
6	BRD_5	How to integrate to other processes after submission	Medium
7	BRD_6	Logout	
8			
9			
10	**1 Provide the links of the BRD document		
11	**2 Derive the main functionalities		
12			



# Sample FSD mapped to BRD

	A	B	C	D
1	BRD Id	Description	FSD Id	FSD Description
2	BRD_1	Login	FSD_1.1	1.1. Register
3			FSD_1.2	1.2
4	BRD_2	Loan Process	FSD_2.1	2.1 New users
5			FSD_2.2	2.2 Existing users
6	BRD_3	How to Use	FSD_3.1	3.1.
7			FSD_3.2	3.2
8	BRD_4	Customer Ease of Use	FSD_4.1	4.1 All the information should be accessible in less than 3 clicks for a user.
9			FSD_4.2	4.2
10	BRD_5	Response(How to integrate to other processes after submission)	FSD_5.1	5.1
11	BRD_6	Logout	FSD_6.1	6.1
12				
13	**1 Provide the links of the BRD document			
14	**2 Derive the main functionalities			


# Sample Test Scenarios

	A	B
1	Test scenario ID	Test Objective/Test scenarios
2	TS_Login_001	
3	TS_Login_002	
4	TS_Login_003	
5	TS_Loan_NewUsers_001	
6	TS_Loan_NewUsers_002	
7	TS_Loan_NewUsers_003	
8	TS_Loan_ExistingUsers_004	
9	TS_Loan_ExistingUsers_005	
10	TS_How-to-Use_001	
11	TS_How-to-Use_002	
12	TS_How-to-Use_003	
13	TS_How-to-Use_004	
..		

# Sample Test Cases mapping

	A	B	C	D	E	F	G	H	I	J	K
	Requirement Id	Testcase_Id	Priority	Description	Pre-conditions	Test Steps	Expected result	TestData	Testcase Results	Bug ID	Comments
1											
2	BRD_1	TC_Login_001	P1								
3		TC_Login_002	P2							Defect_01	
4	BRD_2	TC_newuser_001	P1								
5		TC_newuser_002	P1								
6		TC_newuser_003	P1								
7		TC_existinguser_001	P2								
8		TC_existinguser_002	P1								
9	BRD_3	TC_HowtoUse_001	P1							Defect_03	
10		TC_HowtoUse_002	P1								
11	BRD_4	TC_EasyUse_001	P1								
12		TC_EasyUse_002	P1								
13	BRD_5	TC_a_a_001	P2							Defect_04	
14		TC_a_a_002	P2								
15	BRD_6	TC_a_a_001	P2								
16		TC_a_a_002	P2								

# Sample RTM

	A	B	C	D	E	F	G	H
1			Requirement Traceability Matrix					
2	Project Name:	<Required>						
3	Client Name:	<Required>						
4	Project Manager Name:	<Required>						
5	Project Start Date:	<Required>						
6	Project End Date:	<Required>						
7	Project Description:	<Required>						
8	S.No	Business Requirement ID	Functional Requirement ID	Test Scenario ID	Test Case Number/ ID	Execution Status	Defects	Additional Comments
9	1	BRD_1	FSD_1.1	TS_Login_001	TC_Login_001	Passed		
10			FSD_1.2	TS_Login_002	TC_Login_002	Passed		
11	2	BRD_2	FSD_2.1	TS_Loan_NewUsers_001	TC_newuser_001	Passed		
12				TS_Loan_NewUsers_002	TC_newuser_002	Failed	Defect_01, Defect_02	
13				TS_Loan_NewUsers_003	TC_newuser_003	Blocked	Defect_01	
14			FSD_2.2	TS_Loan_ExistingUsers_004	TC_existinguser_001	Failed	Defect_03	
15				TS_Loan_ExistingUsers_005	TC_existinguser_002	Passed		
16	3	BRD_3	FSD_3.1	TS_How-to-Use_001	TC_HowtoUse_001	Passed		
17			FSD_3.2	TS_How-to-Use_002	TC_HowtoUse_002	Passed		

*Demo*

# Q & A

# Thank You!



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