- Test Case: A test case has components that describe input, action, and an expected response, in order to determine if a feature of an application works correctly.
 - A test case is a set of instructions on "HOW" to validate a particular test objective/target, which, when followed will tell us if the expected behavior of the system is satisfied or not. The basic objective of writing cases is to validate the test coverage of an application. One of the most frequent and major activities of a Software Tester (SQA/SQC person) is to write Test scenarios and cases.
 - **Bug in Software:** A software bug is an error, flaw, or fault in an application. This error causes the application to produce an unintended or unexpected result, such as crashing or producing invalid results.
 - **Bug report**: A Bug Report in Software Testing is a detailed document about bugs found in the software application. Bug report contains each detail about bugs like description, date when bug was found, name of tester who found it, name of developer who fixed it, etc. Bug report helps to identify similar bugs in future so it can be avoided.

Test Automation

1.

Project Name: L	ost Item Tracker Devi	re	Test I	Designed by:	Group-3
Test Case: B-1			Test Designed by: Group-3 Test Designed date: 10.11.22		
Test Priority (Low, Medium, High): Medium			Test Executed by: Ifthekar		
Module Name: Registration session				Execution dat	
	e a new account using re	equired			
	t application registration	_			
-	any): User must enter va			ess. usernam	e should be
,	ord should be a strong p			•	
· ·	se latter and one at least		•		\mathcal{C}
Test Steps	Test Data	Expec		Actual	Status
1		Result		Results	(Pass/Fail)
1. Go Home	Username:	User d	lata	As	Pass
Page	test_user20	should	1	expected,	
2. Go to		be store to			
Registration	Password:	the			
Window	User20@789	database,			
3. Enter		after			
username	Email:	click			
4. Enter	User20@gmail.com	registration			
password		user sl	nould		
5. Enter Email	Address:	get			
6. Enter	Dhaka, Bangladesh	OTP on his			
Address		email.			
7. Enter Phone		After	enter		
(optional)		valid			
8. Verify		OTP u			
CAPTCHA		should			
9. Click		be able			
Registration 10. Enter OTP		go to l			
from email		prome			
11. Click on					
Profile link					

Post Condition: User is validated with database and successfully created a new account. The account session details are saved in the database.

Project Name: Lost Item Tracker Device			Test Designed by: Group-3		
Test Case: B-2			Test Desig	Test Designed date:	
	10.11.22				
Test Priority (Low, Medium, High): Medium			Test Executed by: Ifthekar		
Module Name: Login Session			Test Execution date: 10.12.22		
Test Title: Verify log	gin with valid data.				
	plication login systen	l.			
Precondition (If any): User must have valid email address or username and password.					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
 Go to the home page Go to Login 	Username: test_user20	User login successfully using valid	As expected,	Pass	
Window	Password:	User name or			
3. Enter username or	User20@789	Email and password			
mail	Email:	password			
4. Enter password	User20@gmail.com				
5. Click Login Button					
*****	login successfully to	given required	information		

Project Name: Lost Item Tracker Device T			Test Designed by: Group-3		
Test Case: B-3			Test Designed date: 17.11.22		
Test Priority (Low, Medium, High): High			Test Executed by: Ifthekar		
Module Name: Profile edit			Test Execution date: 11.12.22		
Test Title: Change of	or edit profile				
Description: User change given profile information.					
Precondition (If any): User can't change user name and id.					
Test Steps	Test Data	Expected		Actual	Status
_		Results		Results	(Pass/Fail)
1. Go to the	Change profile	Save all		Unexpected,	Fail
homepage	information.	changin	g		
2. Go to Login		information			
3. Profile		and show in			
4. Edit		profile.			
Post Condition: User can see modified information in profile after edit profile.					

Bug Name: Application can't show modified information after edit information.					
Bug ID: (It will be automatically create	ed by the BUG Tracking tool once you				
save this bug).					
Area Path: Login □profile □Save					
Build Number: Version Number 3.0.1					
	Priority: Low (High/Medium/Low) or 1				
Severity: Medium					
(High/Medium/Low)					
Assigned to: Group-4 members Reported By: Ifthekar					
Reason: Defect	Reported On: 27/11/2022				
Status: New/Open/Active: New Environment: Windows 11/SQL Server					
2014					

Description: Application can't show modified information after edit information, hence unable to change information or edit new information in the application.

Steps to Reproduce:

- 1. Login into the Application.
- 2. Go profile
- 3. Edit
- 4. Navigate to the all information ◊edit information
- 5 Save
- 6. Seen an error page "Exception: Insert values Error..."
- 7. See the attached logs for more information (Attach more logs related to the bug...IF any)
- 8. Also see the attached screenshot of the error page.

Expected Result: On clicking the SAVE button, you should be prompted to a successful message "New information has been edit successfully" and new information show in profile.

Project Name: Lost	Test Designed by: Group-3				
Test Case: B-4			Test Designed date: 25.11.22		
Test Priority (Low, Medium, High):			Test Executed by: Ifthekar		
Medium					
Module Name: cha		Test Ex	ecution date: 1	1.12.22	
Test Title: change new password and create new password					
Description: Test Application Add New password					
Precondition (If any): User check pa	issword d	letails		
Test Steps	Test Data	Expecte	ed	Actual	Status
		Results		Results	(Pass/Fail)
1. Go to the	Change	After fin	_	Unexpected,	Fail
homepage	password and	passwoi			
2. Go to Login	create a new	device v	will be		
3. Go to	password	secure			
Forgot					
password					
4. Enter the					
user name					
5. Verify					
captcha					
6. Enter email					
7. Enter Phone					
optional					
8. OTP from email					
9. Enter New					
password 10.Confirm					
new					
password					
11.Go to the					
Finish					
Post Condition: User can change new password					

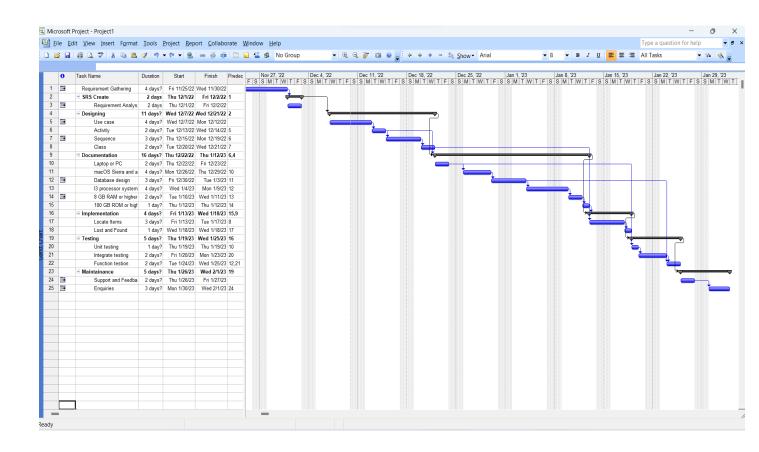
Project Name: Lost Item Tracker Device			Test Designed by: Group-3			
Test Case: B-5			Test Designed date: 25.11.22			
Test Priority (Low, Medium, High):			Test Executed by: Ifthekar			
Medium						
Module Name: Add locate items			Test Exe	ecution date: 11	1.12.22	
Test Title: Add locate items session in specific time.						
Description: Test App	olication Add	d located s	system.			
Precondition (If any): User check device details, and located item for notification.						
Test Steps	Test Data	Expected	d	Actual	Status	
_		Results		Results	(Pass/Fail)	
1. Go to the	device	Save all		Unexpected,	Fail	
homepage	details	information in				
2. Go to Login	and	database and set				
3. Enter the	location	a notification	ation.			
password	time.					
4. Enter lost						
item						
5. Details about						
lost item						
6. Select lost						
item location						
7. Select lost						
item date						
8. Select lost						
item time						
9. Go to the						
Finish Post Condition: User can add lost device details and session.						

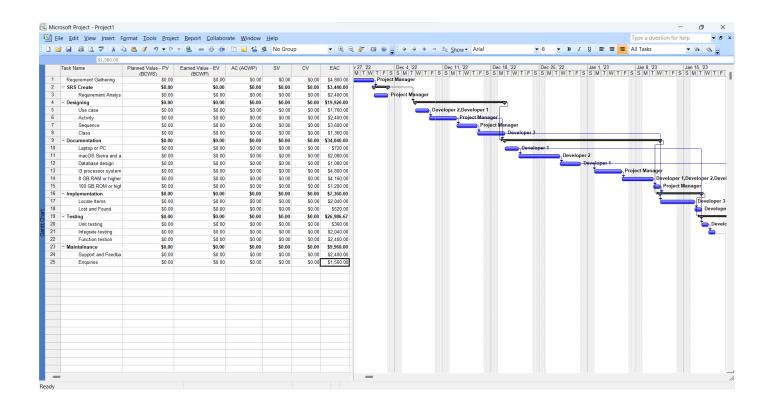
Post Condition: User can add lost device details and session.

Bug Name: Application crashes upon clicking the SAVE button while creating a						
new doctor session.						
Bug ID: (It will be automatically created by the BUG Tracking tool once you						
save this bug).						
Area Path: Login □Add lost item □Sa	ive					
Build Number: Version Number 2.0.1						
Severity: HIGH (High/Medium/Low) or 1 Priority: HIGH (High/Medium/Low) or 1						
Assigned to: Group-4 members	Reported By: Athoy					
Reason: Defect Reported On: 11/25/2022						
Status: New/Open/Active: New	Environment: Windows 11/SQL Server 2014					
Description: Application crashes upon clicking the SAVE button while creating a new lost item with session, hence unable to create a new doctor session in the application.						
Steps to Reproduce:						
1. Login into the Application.						
2. Go lost item						
3. Navigate to the lost device details and location time □ New page						
4. Select lost device and location time						
5. Clicked on Save button						
6. Seen an error page "Exception: Insert values Error"						
7. See the attached logs for more information (Attach more logs related to the bugIF any)						
8. Also see the attached screenshot of the error page.						
Expected Result: On clicking the SAVE button, you should be prompted to a successful message "New Session has been created successfully".						

WBS and Effort Estimation:

Estimation in software engineering refers to an endeavor to estimate the cost, time, and effort necessary to develop a certain software-based system. It helps the project manager in making more accurate predictions about the time and effort required to complete the project.





Cost Estimation:

Total resource cost = \$460

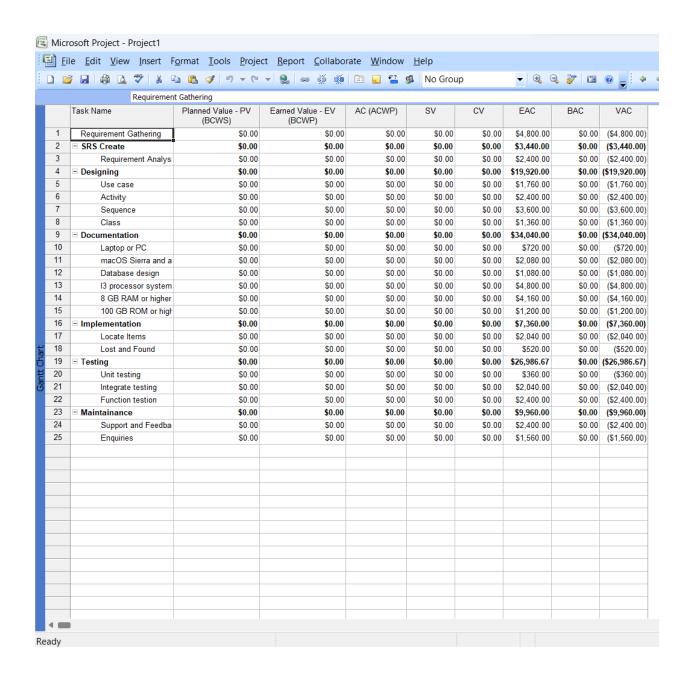
Employee's salary: Developer = $(2 \times \$140) = \280

Project manager = \$220

Testing and maintenance = \$420

Total salary: (\$280 + \$220 + \$420) = \$920

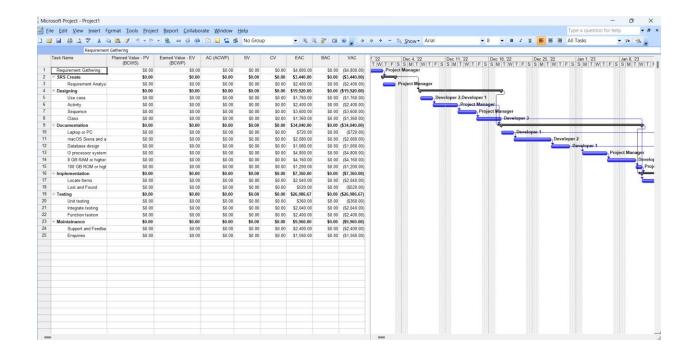
Total cost : (\$460 + \$920) = \$1380 (per month)



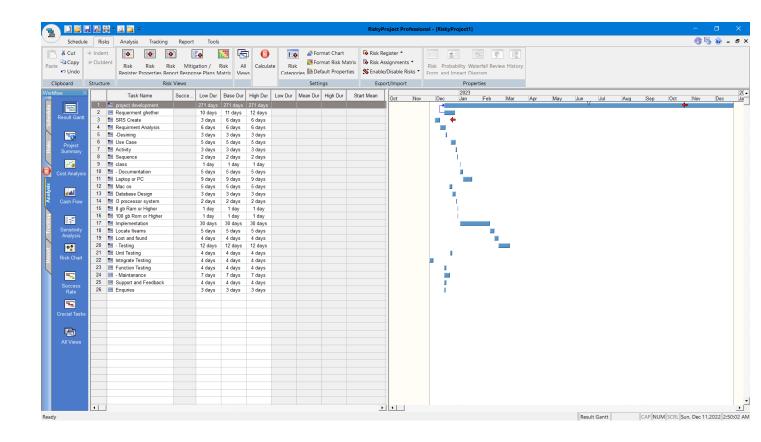
Activity Scheduling:

Name	Duration	Starting Date	Ending date
Project purpose	10 days	10/8/2022	20/8/2022
Software Lifestyle	3 days	23/8/2022	26/8/2022
Design Diagram	12 days	27/8/2022	07/9/2022
Development	10 days	13/9/2022	23/9/2022
Testing	1 week	18/9/2022	24/9/2022
Maintainance	1 week	25/9/2022	1/10/2022

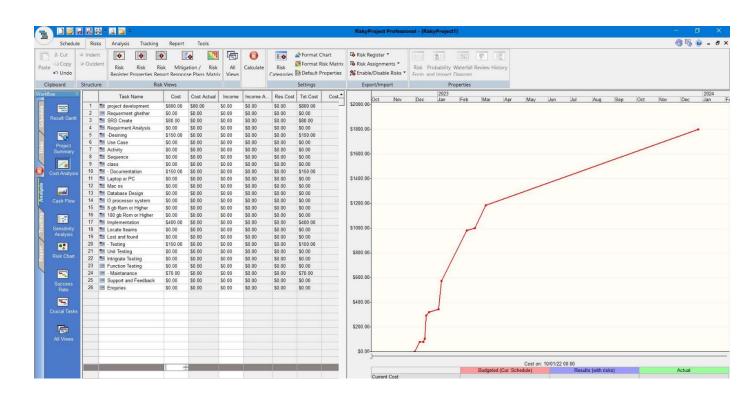
Resource Allocation:



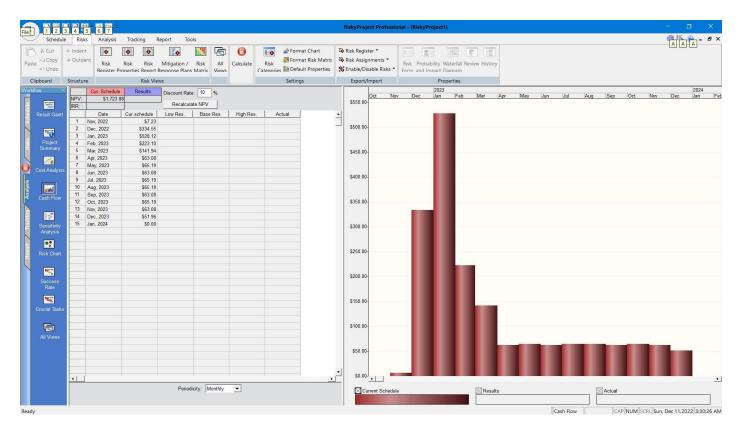
Resource Analysis:



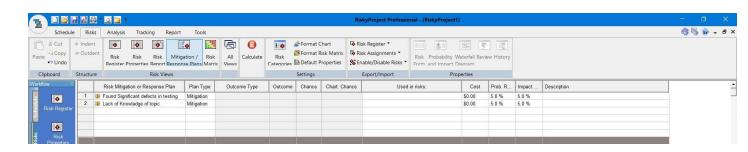
Risk Cost Analysis:



Risky Cash Flow:



Risk Mitigation:



Risk Matrix:

