

Quiz 1

Exercise 1

FUNCTIONAL TESTING

Exercise 1 - online banking

- List of functional requirement for online banking
- Draw an interface for one of the FR (except login)
- Plan to perform functional testing by using Black Box testing (implement any suitable technique)

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1. List of Functional requirements for online banking.

No.	Requirement Description	Priority
	Manage User Authentication	
1.	The system allows users to register by using their details (IC number, account details)	M
2.	The system displays a "Secure Word" before password entry to prevent phishing.	M
3.	The system allows the users to log in using biometric authentication (FaceID/Fingerprint).	D
	Manage Fund Transfer	
4.	The system allows users to transfer funds by using DuitNow or IBG (Account number/Phone No/QR).	M
5.	The system set a daily transfer limit of RM 10,000.00.	M
6.	The system requires a 6-digit TAC/OTP for all outgoing transactions.	M

	Manage User Account Management	
7.	The system allows users to view and download e-Statements (PDF).	M
8.	The system allows users to view real-time account balances and transaction history.	M

2. Draw an interface for one of the FR except login

- Manage Fund Transfer

3. Plan to perform functional testing by using Black Box testing (implement any suitable testing)

Decision table

Conditions	Rule 1	Rule 2	Rule 3	Rule 4
Amount <= RM 10,000?	Yes	Yes	No	No
Is 6-digit TAC entered valid or invalid?	Yes	No	Yes	No
Actions				
Transfer Successful	X			
Show "Invalid TAC" Error		X		
Show "Exceed Limit" Error			X	
Transfer Unsuccessful				X

Boundary Value Analysis

Test Case ID	Input Amount	Expected Outcomes	Results
TC_001	RM 0.50	Show Error: Minimum transfer is RM 1.00	Invalid
TC_002	RM 1.00	Proceed to TAC Authorization page	Valid
TC_003	RM 9,999.00	Proceed to TAC Authorization page	Valid
TC_004	RM 10,050.00	Show Error: Amount more than daily limit	Invalid

Exercise 2

NON-FUNCTIONAL TESTING

Exercise 2 – online banking

Identify suitable technique:

1. System must handle 5000 users
2. System must prevent hacking
3. App must be easy to use
4. System must recover after crash
5. App must work on mobile & desktop

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No.	Requirements	Technique Testing
1.	System must handle 5000 users	Performance Testing (Load Testing) Explanation: To verify how the application handles under the expected peak load of 5000 users.
2.	System must prevent hacking	Security Testing Explanation: To ensure sensitive banking details are protected from an unauthorized access.

3.	App must be easy to use	<p>Usability Testing</p> <p>Explanation: To ensure the user interface (UI) and user experience (UX) are easy to use and navigate.</p>
4.	System must be recover from crash	<p>Recovery testing</p> <p>Explanation: To verify the system can successfully restore details and resume operations after a hardware or software failure happens.</p>
5.	App must work on mobile and desktop	<p>Compatibility Testing</p> <p>Explanation: To ensure the application functions correctly with different operating systems and devices.</p>