

Assignment 2

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Q2) Write test cases for any known application (Eg. Banking) and explain in terms of functional and non-functional operations and add pass or fail statement to testcases. (Case study)

A) ~~Let's~~ let's consider a banking application for this example. Here are some test cases covering both functional and non-functional aspects:

Test Case 1: User login

- Functional: Verify that users can log in with valid credentials.
- Non-Functional: Check that ~~can the~~ the login process takes less than 5 seconds.
- Pass/Fail: ^{Pass} if the user is able to log in successfully within the specified time.
Fail if there's an error during login or if it takes longer than 5 seconds.

Test cases 2: Balance inquiry:

- Functional: Confirm that users can view their account balance.
- Non-Functional: Ensure that the balance is displayed accurately and the operation completes within 3 seconds.
- Pass/Fail: - Pass if the balance is displayed correctly and quickly. Fail if the balance is wrong or if the operation takes too long.

Test Case 3: Funds Transfer

- Functional :- Test transferring funds between two user accounts.
- Non-Functional :- Check that the transaction completes within 10 seconds and that the system sends a confirmation notification.
- Pass/Fail :- Pass if the funds are transferred and confirmed quickly. Fail if the transfer fails or takes too long.

Test Case 4: Transaction History

- Functional :- Verify that users can view their transaction history.
- Non-Functional :- Ensure that the history loads within 5 seconds and is displayed in chronological order.
- Pass/Fail :- Pass if the history loads and displays correctly. Fail if it doesn't load or if the order is incorrect.

Test Case 5: Security

- Functional: Test the security features like changing the password.
- Non-Functional: Ensure that password changes are processed immediately and the system logs out the user after multiple failed login attempts.
- Pass/Fail: Pass if password change works and failed login attempts trigger logout. Fail if there's an issue with password change or the logout feature.

Test Case 6: Concurrent Users

- Non-Functional: Simulate multiple users ~~app~~ accessing the application simultaneously to test its performance and responsiveness.
- Pass/Fail: Pass if the application remains responsive and stable with multiple concurrent users. Fail if the application crashes or becomes extremely slow.

Test Case 7 :- Accessibility

→ Non-Functional: Verify that the application adheres to accessibility standards, such as screen reader compatibility and text-to-speech support.

→ Pass/Fail: Pass if the application is accessible to users with disabilities. Fail if accessibility features are missing or not functioning correctly.

Test Case 8: Cross-Platform Compatibility

→ Non-Functional: Test the application's compatibility on different devices and operating systems.

→ Pass/Fail: Pass if the application works seamlessly across different platforms.

Fail if there are major UI or functionality issues on certain devices or OS versions.