

Becoming a Pro

IN Mobile Applications Testing



Mobile Test Industry Standards :

Testing Strategies for Mobile Apps : Banking

Requirement Gathering

Requirement gathering phase involves documentation of requirements either as Functional Specifications or Use Cases

Requirement Review

The deliverable of Requirement Gathering is reviewed by all the stakeholders such as QA Engineers, Development leads and Peer Business Analysts

Business Scenario Preparation

In this stage QA Engineers derive Business Scenarios from the requirement documents (Functions Specs or Use Cases);

Functional Testing

Test Case Preparation, Review, and Execution

Database Testing

involves complex transaction which are performed both at UI level and Database level

Security Testing

entire Application testing cycle as this stage ensures that application complies with Federal and Industry standards

User Acceptance

User testing should be based on the pre agreed test scenarios or acceptance criteria.

Mobile Test Industry Standards :

Testing Strategies for Mobile Apps : Banking Security

Many banks failed when it came to proper SSL encryption, authentication and secure feature implementation.



90% of tested apps initiated connections without proper SSL encryption



70% didn't have alternative authentication solutions



50% used an iOS featured called UIWebView (designed to display web content in native apps) insecurely



40% didn't validated the authenticity of digital certifications received from a server



20% were complied without using features designed to limit the risk of memory corruption attacks



Many apps exposed sensitive information through iOS system logs and crash logs

Mobile Test Industry Standards :

Testing Strategies for Mobile Apps : Banking Security

Sample Test Cases For Banking Application (OVERVIEW)

1	Verify that user is able to login with valid username and password
2	Verify that user is able to perform basic financial transactions
3	Verify that user is able to add a beneficiary with valid name and account details
4	Verify that user is able to make financial transactions to added beneficiary
5	Verify that user is able to add decimal number into amount (limited by 2 numbers)
6	Verify that user is not able to add negative number into amount field
7	Verify that user is allowed to transfer money only if there is proper account balance.
8	Verify that there is a confirmation check for financial transactions

Mobile Test Industry Standards :

Testing Strategies for Mobile Apps : Banking Security

Sample Test Cases For Banking Application	
9	Verify that user is given an acknowledgment receipt upon successful financial transaction.
10	Verify that customer is able to send money to multiple people
11	Verify that user is allowed to change password
12	Verify that account details reflect financial transactions also.
13	Verify that user with invalid password is not allowed to login.
14	Verify that after repeated attempts to login with incorrect password(as per the limits), user should be blocked.
15	Verify that time-out feature is implemented
16	Verify that if either of the username or password is blank, user is not allowed to login. User should be given an alert also.

Mobile Test Industry Standards :

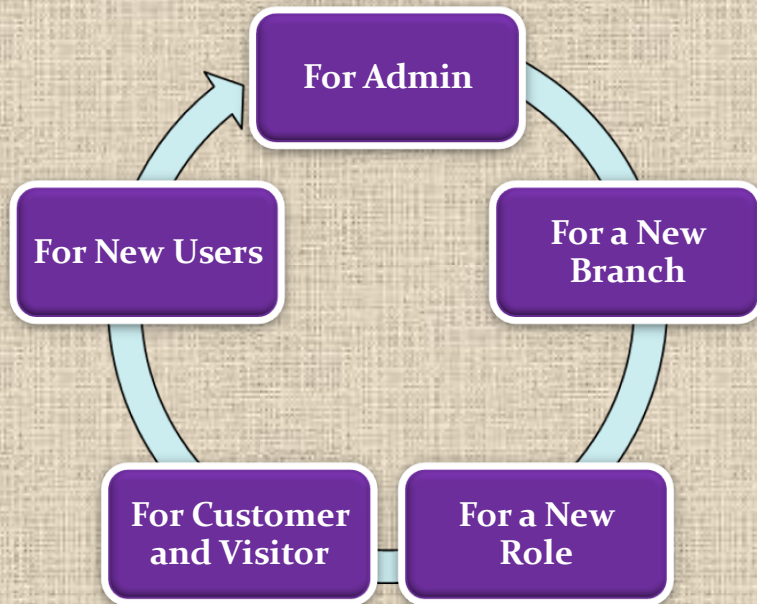
Testing Strategies for Mobile Apps : Banking Security

	Challenges faced by QA
1	Getting access to production data and replicating it as test data, for testing is challenging
2	The biggest challenge in testing banking system is during the migration of the system from the old system to the new system like testing of all the routines, procedures and plans. Also how the data will be fetched, uploaded and transferred to the new system after migration
3	There may be the cases where requirements are not documented well and may lead to functional gaps in test plan Many non-functional requirements are not fully documented, and testers do not know whether to test it or not
4	The most important point is to check whether the said system follows the desired policies and procedures
5	The scope and the timelines increases as banking application are integrated with other application like internet or mobile banking

Mobile Test Industry Standards :

Testing Strategies for Mobile Apps : **Banking Security**

Guidance For Banking Application: **Scope**



SUMMARY

- Majority of banking software are developed on Mainframe and Unix
- Testing helps to lessen possible glitches encounter during software development
- Proper testing and compliance to industry standards, save companies from penalties
- Good practices help develop good results, reputation and more business for companies
- Both manual and automated testing have respective merits and usability