In this tutorial, we will learn

Cases

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Banking Domain Testing

Banking Domain Testing is a software

testing process of a banking application for

functionality, performance, and security. The

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Testing

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main purpose of testing banking application is to ensure that all the activities and functionalities of a banking software run

The BFSI (Banking, Financial services and Insurance) sector is the biggest consumer of IT

services. Banking Applications directly deal with confidential financial data. It is mandatory

that all the activities performed by banking software run smoothly and without any error.

Banking software perform various functions like transferring and depositing fund, balance

these activities are not only executed well but also remain protected from hackers.

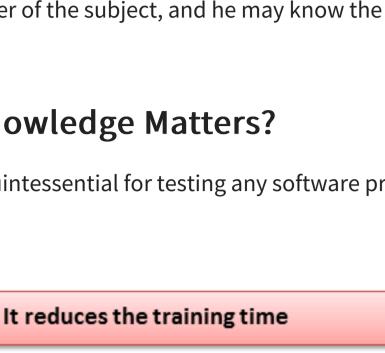
inquiry, transaction history, withdrawal and so on. Testing banking application assures that

smoothly with no errors and it remains protected.

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Usually, while developing any specific domain project, domain expert help is sought out. Domain expert are master of the subject, and he may know the inside-out of the product or application.



It gives good idea on UI features and backend processing It gives good hold over workflow, business process and rule

It helps to understand easily the technical

1. Traditional banking sector 2. Service based banking sector

terminology

Core

Corporate

Retail

Corporate banking

Retail banking

being tested.

- Based on the scope of your project you may need to test one or all of the above service offerings. Before you begin testing, ensure you have enough background on the service
- Before you begin testing, it's important to note the standard features expected of any
- A banking application should integrate with other numerous applications like trading accounts, Bill pay utility, credit cards, etc.

• It should process fast and secure transactions

• It should handle complex business workflows

• It should support users from multiple locations

• It should support multi-lingual users

• It should include massive storage system.

• Foolproof disaster management mechanism

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banking application are gathered and documented

For testing banking applications, different stages of testing include

• Integration Testing: Under Integration Testing all components that are developed are integrated and validated

test case review and test case execution is done during this phase

Sniffer, Paros proxy, HTTP watch, etc. are used • Usability Testing: It ensures that differently able people should be able to use the system as normal user. For example, ATM with hearing and Braille facility for disabled • User Acceptance Testing: It is the final stage of testing done by the end users to

ensure the compliance of the application with the real world scenario.

Sample Test Case for Net Banking Login Application

only involves writing negative test cases but may also include destructive testing. Following are generic test cases to check any banking application Sample test cases

• Verify admin login without data

• Verify all admin home links

• Verify admin logout

Verify Admin login with valid and Invalid data

Verify admin change password without data

Verify admin change password with existing data

• Verify admin change password with valid and invalid data

- Update branch with existing branch data Verify cancel option • Verify branch deletion with and without dependencies • Verify branch search option
- Verify all visitor or customer links Verify customers login with valid and invalid data

Getting access to production data and

data will be fetched, uploaded and

transferred to the new system after

requirements are not documented well

and may lead to functional gaps in test

• The most important point is to check

• The scope and the timelines increases

as banking application are integrated

• There may be the cases where

replicating it as test data, for testing is

For customer & Visitors

For Admin

 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

migration

plan

Summary

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challenging

- Many non-functional requirements are not fully documented, and testers do not know whether to test it or not
- requires precise testing. This tutorial gives a clear idea of what it takes for banking domain testing and how important it is. One must understand that -Majority of banking software are developed on Mainframe and Unix

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Domain

EXPERT

Below is the table of the services these two sub-sectors of banking encompass **Traditional banking sector** Core banking

Trade finance Private banking Consumer finance

Islamic banking

Customer delivery channels/Front end delivery

- Characteristics of a Banking Application
- It should support users on various payment systems (VISA, AMEX, MasterCard) • It should support multiple service sectors (Loans, Retail banking etc.)
- Requirement Analysis: It is done by business analyst; requirements for a particular

• Requirement Review: Quality analysts, business analysts, and development leads are

• Business Requirements Documentation: Business requirements documents are

involved in this task. The requirement gathering document is reviewed at this stage, and

- testing is done to ensure data integrity, data loading, data migration, stored procedures, and functions validation, rules testing, etc.
- scenarios so as to break into the system and report it before any unauthorized individual access it. While to prevent from hacking, the bank should also implement a multi-layer of access validation like a one-time password. For Security Testing, automation tools

• Functional Testing: The usual software testing activities like Test Case preparation,

• Security Testing: It ensures that the software does not have any security flaws. During

test preparation, QA team needs to include both negative as well as positive test

- Security is prime for any banking application. Therefore, during test preparation, QA team should include both negative and positive test scenarios in order to sneak into the system and report for any vulnerabilities before any unauthorized individual get access to it. It not
 - Create a new branch with existing branch data Verify reset and cancel option • Update branch with valid and invalid data • Update branch without data
- For New Role Create a new role with valid and invalid data • Create a new role without data • Verify new role with existing data verify role description and role types
- Verify customers login without data Verify banker's login without data • Verify banker's login with valid or invalid data
- Challenges tester might face during testing banking domain are Challenge **Mitigation**

Ensure that test data meets regulatory

compliances requirements and

Maintain the data confidentiality by

synthetic test data, testing system

Ensure Data Migration Testing is

Ensure Regression Test cases are

• The test should participate in the

Compliance or Regulatory Policies

Ensure Time budget for Integration

Testing is accounted if your banking

Business Requirements

project right from Requirement Analysis

phases and should actively review the

executed on old and new systems, and

following techniques like data masking,

guidelines

complete

integration, etc.

the results match.

with other application like internet or application has many external Mobile banking interfaces

Banking domain is the most vulnerable area for cyber-theft, and safeguarding the software

• Testing helps to lessen possible glitches encounter during software development

• Both manual and automated testing have respective merits and usability

• Proper testing and compliance to industry standards, save companies from penalties

• Good practices help develop good results, reputation and more business for companies

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• What is Domain in Testing? • Why Domain Knowledge Matters? • Introduction to Banking Domain • Characteristics of a banking application Stages of testing banking applications • Sample Test Case for Net Banking Login Application • Challenges in testing banking domain & their Mitigation

What is Domain in Testing? **Domain in Testing** is nothing but the industry for which the software testing project is created. When we talk about software projects or development, this term is often referred to. For example, Insurance domain, Banking domain, Retail Domain, Telecom Domain, etc.

Why Domain Knowledge Matters? Domain knowledge is quintessential for testing any software product, and it has its own benefits like

It helps in quick defect tracking

Banking Domain Knowledge - Introduction Banking domain concepts are huge, and basically it is sub-characterized into two sectors

Service based banking sector

banking application. So that, you can gear your test efforts to achieve these characteristics. A standard banking application should meet all these characteristics as mentioned below. • It should support thousands of concurrent user sessions

Test Phases in Testing Banking Applications

• To troubleshoot customer issues, it should have high auditing capability

Need to support users on multiple platforms (Mac, Linux, Unix, Windows)

prepared by quality analysts in which all reviewed business requirements are covered • Database Testing: It is the most important part of bank application testing. This

cross-checked to ensure that it does not affect the workflow

- like IBM AppScan and HPWebInspect are used while for Manual Testing tools like Proxy
- For new Branch Create a new branch with valid and invalid data Create a new branch without data

• Verify cancel and reset option

• verify links in role details page

Verify role deletion with and without dependency

For New users Create a new user with valid and invalid data Create a new user without data Create a new user with existing branch data Verify cancel and reset option Update user with valid and invalid data • Update user with existing data Verify cancel option Verify deletion of the user Challenges in testing Banking domain & their Mitigation

whether the said system follows the testing must be done desired policies and procedures

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concepts, lets learn What is

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