| 1. Test Plan ID: | BankingSystem\_TP\_001 |
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| 1. Introduction: | This is a System Test Plan for a Banking System, ensuring secure and seamless banking operations. The system provides two interfaces:   * **Customer Interface**: User Registration, Account Management, Fund Transfers, Loan Applications, Bill Payments, Transaction History. * **Admin Interface**: Account Verification, Transaction Monitoring, Security Management, Loan Processing.   **Live Example**: The system is modeled after **HDFC Bank’s NetBanking System**, which offers secure online banking services. |
| 1. Test Items: | **a) Customer Interface:**  Account Registration & Login  View Account Balance & Transaction History  Fund Transfer (NEFT, IMPS, RTGS)  Loan Applications & Approvals  Bill Payments  **b) Admin Interface:**  KYC Verification & Account Activation  Monitoring Transactions & Fraud Detection  Loan Processing & Approvals  Security Management (2FA, OTP, Role-Based Access) |
| 1. References: | Requirements, Project Plan, Test Strategy.  High-Level Design and Low-Level Design documents.  Use Cases and Process Guidelines. |
| 1. Features to be Tested: | * User Authentication & Authorization * Account Management & Transactions * Loan Application & Processing * Bill Payments & Statements * Security Measures (OTP, Two-Factor Authentication) * UI/UX Functionality & Performance |
| 6. Features Not to be Tested: | * Internal Banking System (Backend Processing) * Third-Party Integrations (e.g., External Payment Gateways) |
| 7. Entry Criteria: | * Functional Requirements and Business Documents finalized. * Test Cases prepared and approved. * Test Environment setup and configured. |
| 8. Exit Criteria: | * All critical test cases executed successfully. * No critical or high-severity defects remain unresolved. * Test Summary Report reviewed and approved. |
| 9. Suspension Criteria: | * Major system failures affecting core banking functionalities. * Delayed development impacting test execution. |
| 10. Roles & Responsibilities: | | Role | Responsibilities | | --- | --- | | Test Lead | Planning, Monitoring and Test Control | | Tester | Test Case Execution, Defect Logging , Test Documentation | | QA Analyst | Reviewing Test Cases, Test Execution Reports | | Developer | Fixing Reported Defects | |
| 11. Schedule: | | Task | Duration | | --- | --- | | Understanding Requirements | 5th July - 11th July | | Test Case Documentation | 4th July - 7th July | | Test Case Collection | 5th July - 11th July | | Environment Setup | 20th July | | Sanity Testing | 11th July | | Comprehensive Testing | 12th July - 20th July | | Regression Testing | 16th July - 22nd July | | Test Summary Report | 25th July | |
| 12. Risks & Mitigation: | | Risk | Mitigation Strategy | | --- | --- | | Unclear Requirements | Frequent stakeholder discussions | | Security Vulnerabilities | Perform penetration testing, implement strong authentication | | High number of defects | Start early testing, conduct unit testing | | Delay in defect resolution | Assign priority-based defect fixing | |
| 13. Test Environment/Lab: | Test Environment:  * Operating System: Windows 10, Linux Ubuntu 20.04 * Browsers: Chrome, Firefox, Edge * Database: MySQL / PostgreSQL * Network: Secure VPN with Role-Based Access * Test Environment Setup: Simulating HDFC Bank NetBanking system for real-time transactions and security validation.  Tools Used:  * Defect Tracking: Jira / Bugzilla * Test Case Management: TestRail / Excel Sheets * API Testing: Postman * Automation (if required): Selenium WebDriver |
| 14. Test Deliverable: | * Test Plan Document * Test Cases & Execution Reports * Defect Logs & Summary Reports |
| 15. Approvals: | | Task | Responsible Person | | --- | --- | | Test Plan Review | Test Lead | | Test Execution Approval | QA Analyst | | Final Test Approval | Project Manager | |