



☑ Checklist for Performing Regression Testing for FinTech Apps.



Your Complete Checklist for Performing Regression Testing for FinTech Apps

For regression testing for FinTech applications, it's important to consider the unique aspects of FinTech such as financial transactions, regulatory compliance, security, and high reliability.

Here's a checklist to do that:

1. Pre-Testing Preparation

- Requirement Analysis:** Review recent changes in requirements, focusing on financial operations.
- Regulatory Compliance Review:** Check for any updates in financial regulations that might impact the application.
- Risk Assessment:** Evaluate the impact of new features on financial data and transaction security.

2. Test Environment Setup

- Secure Environment Configuration:** Ensure the test environment is secure and isolated to protect financial data.

Data Masking: Use data masking for sensitive financial information in test cases.

Simulated Financial Interfaces: Set up mock banking interfaces and payment gateways for testing.

3. Test Planning

Prioritize Critical Financial Features: Focus on features like transactions, payments, and account management.

Update Test Cases: Revise test cases to reflect changes in financial operations or regulations.

Compliance Test Cases: Add specific test cases to verify compliance with financial regulations (e.g., GDPR, PCI DSS).

4. Automation Strategy

Automate Compliance Checks: Automate testing for regulatory compliance where possible.

Transaction Flow Automation: Automate complex transaction flows to ensure consistency in testing.

5. Functional Testing

Transaction Integrity Testing: Ensure all financial transactions are processed correctly and data integrity is maintained.

Interest Calculation and Financial Reporting: Verify accurate calculation and reporting functionalities.

API Testing: Test APIs for integration with banks, payment processors, and other financial services.

6. Security and Compliance Testing

Encryption and Data Protection: Test for data encryption in transit and at rest.

Access Control Testing: Verify proper implementation of user access controls and authentication.

Audit Trail Testing: Ensure all financial transactions are accurately logged for auditing purposes.

7. Performance Testing

- Load Testing for Transaction Processing:** Test the application's performance under high transaction volumes.
- Stress Testing for Market Volatility Scenarios:** Simulate high-stress conditions like market crashes or spikes in trading.

8. User Interface and Experience

- Financial Data Presentation:** Check for the accurate and clear presentation of financial data.
- Mobile and Cross-Browser Testing:** Test the application on various devices and browsers, focusing on transactional functionality.

9. Post-Testing Activities

- Defect Documentation:** Document all issues with a focus on financial impact and compliance risks.
- Stakeholder Reporting:** Provide detailed reports to stakeholders with an emphasis on financial and regulatory implications.
- Feedback Incorporation:** Ensure that findings from the regression tests are integrated into the development cycle.

10. Post-Release Monitoring

- Real-Time Monitoring:** Implement monitoring for real-time detection of issues in financial transactions post-deployment.
- User Feedback Analysis:** Collect and analyze user feedback with a focus on financial transaction experiences.

Additionally, our blog gives you step-by-step guidance on how to perform regression testing for your FinTech app. Using the right tools is key to catching data errors, ensuring the API manages transmitted data correctly, and confirming responses contain accurate information.