



Fintech

Testing Essentials for 2024



Is this checklist complete?

No checklist in Fintech can ever be. It is the fastest developing industry that requires tweaking QA strategy on the go. But following this guide will cover about 95% of critical testing areas.



A Step-by-Step Checklist

What's inside?

A comprehensive checklist covering security, performance, user experience, and regulatory compliance for Fintech apps. Each section includes key points, practical tips, and real-world examples.

Why trust us?

With 23 years in software testing, we've grown alongside Fintech. We've worked with national banks, investment platforms, and cutting-edge startups across Western Europe and the Middle East.

How to use this guide?

Use it as a solid starting point. Stay adaptable — Fintech changes fast, and your testing should too.

Security Testing Checklist

In Fintech, security isn't just a feature, it's the foundation. One tiny crack can bring the whole house down. This checklist covers the essentials to keep your app fortress-strong.

2 Monitor for anomalies

Why Unusual patterns may indicate security breaches

How Implement Splunk or ELK Stack for transaction monitoring

4 Scrutinize the front-end

Why User interfaces can be exploited if not properly secured

How Run OWASP ZAP scans and conduct manual security reviews

6 Simulate fraud scenarios

Why Fintech apps are prime targets for financial crimes

How Test against identity theft, transaction manipulation, and other fraud types

1

Use real financial data for tests

Why Real data uncovers hidden vulnerabilities

How Obtain sample data from financial APIs

3

Thoroughly test all APIs

Why APIs are common entry points for attacks

How Use Postman or SoapUI to verify API security

5

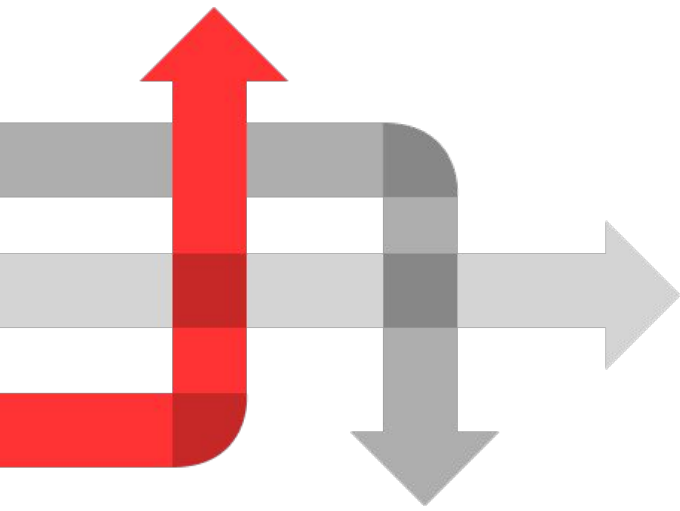
Conduct penetration testing

Why Proactive hacking helps identify weaknesses

How Follow the Penetration Testing Execution Standard (PTES)

```
| type; | tin  
=Math.floor(Math.random()*95  
RN=RN+'0  
| $TIN=  
| click  
| type;  
| GET SEARCH RESULTS CONTAINING
```





Where to begin

Use tools like **OWASP ZAP** to automatically scan for web interface vulnerabilities and manually review code for XSS and CSRF issues.



OWASP ZAP

The Ultimate Web Application Security Testing Tool

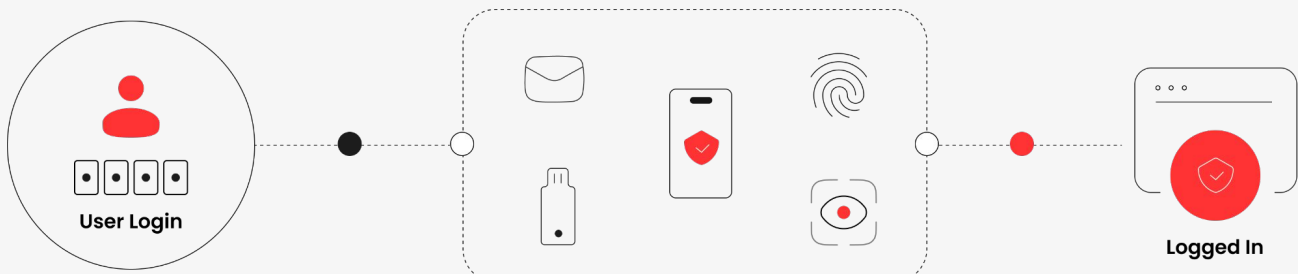


"In Fintech, testing is all about maintaining the integrity of every transaction, protecting user trust, and ensuring regulatory compliance. A beautifully designed app means nothing if it can't guarantee the safety of its users' assets."

Igor Kovalenko,
Lead QA

Example:

Following the steps above, we once revealed a subtle flaw in a multi-factor authentication system. Under specific conditions, it was possible to bypass the second factor. This discovery led to a complete overhaul of the authentication process, significantly enhancing the security posture before launch.



Performance

Testing Checklist

Speed and stability - the dynamic duo of Fintech success. Nobody likes a sluggish app, especially when their money's on the line.

2

Test responsiveness across devices



Why Users access financial apps on various devices with different screen sizes and processing power

How Utilize services like BrowserStack to test on multiple real devices and browsers

4

Verify 24/7 availability



Why Financial services require round-the-clock accessibility

How Implement continuous monitoring and automated failover testing

6

Evaluate third-party service integrations



Why External services can become performance bottlenecks

How Simulate various response times and failure scenarios from integrated services

1

Conduct stress testing during peak financial periods



Why Financial apps often face extreme loads during specific times (e.g., tax season, market opens, massive sales)

How Use tools like Apache JMeter or Gatling to simulate high user loads

3

Measure and optimize transaction speed



Why Slow transactions can lead to user frustration and potential financial losses

How Use application performance monitoring (APM) tools to identify and resolve bottlenecks

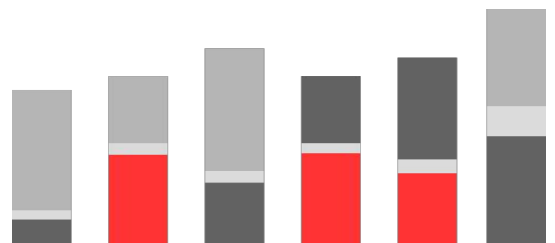
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Test database performance under load



Why Database slowdowns can cripple entire financial systems

How Use tools like MySQLSlap or Postgresbench to simulate heavy database loads





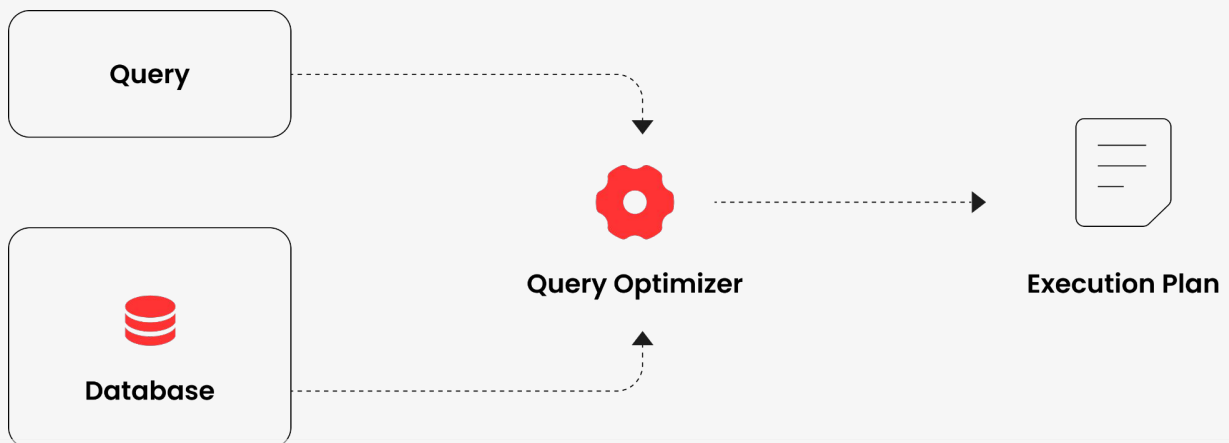
Where to begin

Start with baseline performance testing using **Apache JMeter** to simulate typical user loads and transactions. Gradually increase complexity and load to identify breaking points.



Example:

During our last round of performance testing, we discovered that our app's performance degraded significantly when processing over 1000 concurrent forex trades. By optimizing our database queries and implementing caching, we improved our capacity to handle **10,000 concurrent trades** with minimal latency.



We'll make your Fintech app perform

like a star even when the world seems to be logging in all at once

[Contact for details](#)

User Experience

Testing Checklist

All the security and speed in the world won't matter if users can't figure out how to use your app. Here, we break down the art of making Fintech friendly.

2

Test ease of common financial tasks



Why Friction in frequent tasks leads to user frustration and potential errors

How Create task completion scenarios for actions like transfers, payments, and account management; measure time-to-completion and error rates

4

Assess security feature usability



Why Security features must be strong yet user-friendly to ensure adoption

How Test user perception and ease-of-use for features like two-factor authentication, biometric login, and transaction confirmations

6

Test financial data visualization



Why Complex financial data needs clear, actionable presentation

How Conduct A/B tests on different chart types and data presentation methods; gather user feedback on comprehension and preference

1

Verify clarity of financial information



Why Users need to understand their financial status at a glance

How Conduct usability tests focusing on comprehension of account summaries, transaction histories, and financial projections

3

Evaluate accessibility compliance



Why Financial services must be usable by people with disabilities

How Use tools like WAVE or aXe to check WCAG compliance; conduct tests with assistive technologies

5

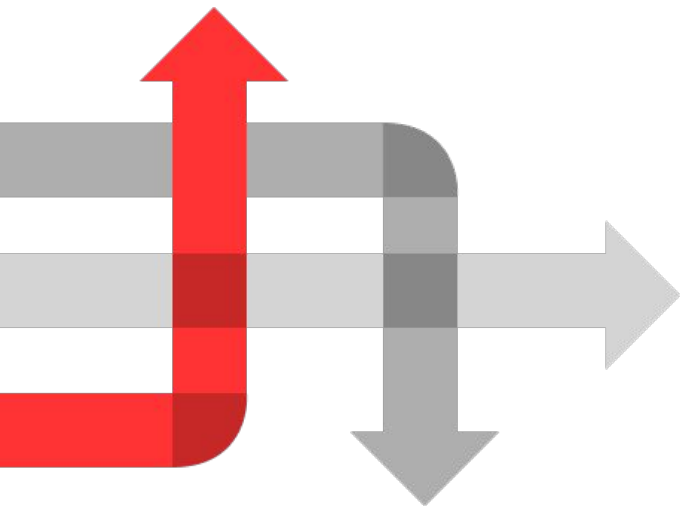
Check cross-platform consistency



Why Users expect seamless experiences across devices

How Compare user flows and visual designs across web, mobile, and tablet versions; ensure feature parity where appropriate



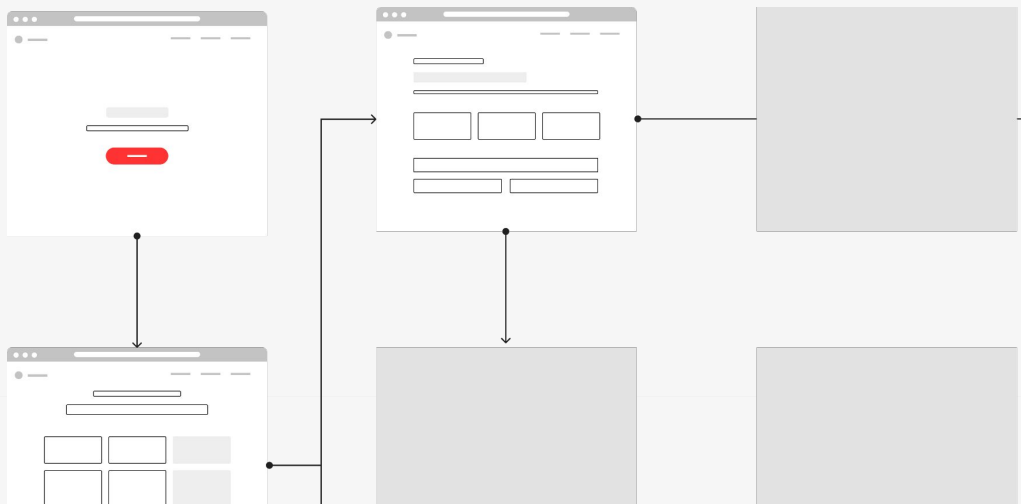


Where to begin

Start with a heuristic evaluation of your app using **Jakob Nielsen's 10** usability heuristics, adapted for Fintech contexts. This provides a quick overview of potential UX issues.

Example:

While testing a client's investment platform, our team discovered users struggled to understand the risk levels of different products. We recommended introducing a simple color-coded scale and plain-language risk descriptions. This improvement not only enhanced user experience but also increased our client's customer retention rate.



Great UX is how you win hearts

and gain a competitive edge! Let us make clients happy with your Fintech app.

[Let's talk](#)

Compliance and Regulations Testing Checklist

In Fintech, compliance is deeply embedded in your code. From encrypting sensitive data to building foolproof audit trails, we'll show you how to bake compliance into every layer of your tech stack.

2 Test Anti-Money Laundering (AML) procedures

Why Financial institutions must prevent, detect, and report money laundering activities

How Simulate various transaction scenarios to ensure proper flagging and reporting of suspicious activities

4 Check Payment Card Industry (PCI) compliance

Why Any app handling credit card information must adhere to PCI DSS

How Use PCI DSS compliance testing tools and conduct regular security assessments

6 Verify cross-border transaction compliance

Why International money transfers are subject to specific regulations

How Test transactions across different jurisdictions to ensure compliance with relevant laws

1 Verify data protection compliance

Why Fintech apps handle sensitive financial data subject to strict regulations

How Conduct thorough audits against GDPR, CCPA, or relevant local data protection laws

3 Validate Know Your Customer (KYC) processes

Why Accurate customer identification is legally required and crucial for preventing fraud

How Test user onboarding flows with various identity scenarios, including edge cases

5 Assess regulatory reporting capabilities

Why Fintech apps often need to generate reports for regulatory bodies

How Test the accuracy and timeliness of automated report generation for various regulatory requirements



Where to begin

Start by creating a comprehensive checklist of all applicable regulations for your client's specific Fintech domain and geographical reach. Use this as a basis for developing targeted test cases.

Example:

While testing a client's international money transfer app, we found weak spots in how they checked for suspicious transactions. We created a set of tests that mimicked real-world scenarios, including common red flags for money laundering. Our tests showed that some tricky cases were slipping through the cracks. We helped the client improve their checking system, adding extra verification steps and fine-tuning their alert system. This greatly reduced the client's chance of regulatory trouble and improved their standing with financial watchdogs.



Looking for custom actionable test plan for your Fintech app?

Contact us for free consultation!

[Contact Us](#)

QArea is a QA and software development company with **23+ years of experience in the market**. Our team doesn't just write code or run tests — we think like product owners. We offer flexible engagement models because we know one size doesn't fit all. Our team is focused on **creating impact-driven solutions with your end goal in mind**. We're not here to just tick boxes; we're here to make your product succeed.