



Healthcare App Testing Checklist: Must-Test Functionality

User Registration and Authentication

- ✓ Verify that users can create accounts and log in securely.
- ✓ Test password requirements, including complexity and encryption.
- ✓ Validate the password reset process.
- ✓ Ensure multi-factor authentication (if implemented) works as intended.

Patient Information Management

- ✓ Test the ability to input, edit, and delete patient information.
- ✓ Check for data validation to prevent incorrect or incomplete entries.
- ✓ Ensure patient data is stored securely and in compliance with data protection regulations.

Appointment Scheduling

- ✓ Confirm that users can schedule, reschedule, and cancel appointments.
- ✓ Test for overlapping appointments and schedule conflicts.
- ✓ Verify that notifications for upcoming appointments are sent correctly.

Electronic Health Records (EHR) Access

- ✓ Validate access to patient EHRs only by authorized healthcare providers.
- ✓ Ensure that EHRs are displayed accurately and updated in real-time.
- ✓ Test for appropriate access controls to protect sensitive patient data.

Medication Management

- ✓ Verify that users can enter and manage medication details.
- ✓ Test for medication interactions and alerts if any are identified.
- ✓ Ensure reminders and notifications for medication are functioning properly.

Communication and Messaging

- ✓ Test secure messaging between patients and healthcare providers.
- ✓ Validate notifications for new messages and message delivery.
- ✓ Ensure privacy and data protection for all communication.

Payment and Billing

- ✓ Test payment processing for appointment fees or other services.
- ✓ Verify billing information is accurate and updated as necessary.
- ✓ Ensure compliance with payment card industry security standards (PCI DSS).

Regulatory Compliance

- ✓ Validate compliance with relevant healthcare regulations (e.g., HIPAA, GDPR).
- ✓ Test data backup and disaster recovery mechanisms.
- ✓ Confirm adherence to accessibility standards for users with disabilities.

Cross-Platform Compatibility

- ✓ Test the app on various devices (e.g., smartphones, tablets) and operating systems.
- ✓ Check for compatibility with different web browsers, if applicable.

Performance and Load Testing

- ✓ Conduct performance testing to check app responsiveness under different loads.
- ✓ Test for scalability and identify potential bottlenecks.

Security Testing

- ✓ Perform penetration testing to identify vulnerabilities.
- ✓ Test for secure data transmission and storage.
- ✓ Verify that the app is protected against common security threats (e.g., SQL injection, cross-site scripting).

Usability and User Experience

- ✓ Conduct usability testing with representative users to ensure a seamless experience.
- ✓ Test navigation, buttons, and other user interface elements for intuitive use.
- ✓ Collect feedback and iterate on improvements based on user input.

