

MOBILE APP TESTING CHECKLIST

Check List



Device & OS Coverage

- Test across smartphones, tablets, and foldable devices
- Validate different screen sizes and resolutions
- Test Android versions from Android 7 to Android 14
- Test the latest iOS versions (iOS 17+)
- Validate behaviour on manufacturer skins like MIUI, One UI, and OxygenOS
- Include devices from major manufacturers (Samsung, Google Pixel, Xiaomi, OnePlus)
- Test both portrait and landscape orientations

Installation & Upgrade Testing

- Verify first-time installation flow
- Validate onboarding and initial permission setup
- Test upgrades from previous app versions
- Confirm user data persists after upgrades
- Test app uninstallation and reinstallation
- Verify behaviour after device restart

Functional Testing

- Validate all buttons, forms, and menus
- Test login, logout, and authentication flows
- Verify navigation between screens
- Test in-app purchases and transactions
- Validate error handling and validation messages
- Test edge cases like double taps, long presses, and rapid inputs
- Verify back button and gesture navigation

Network & Connectivity Testing

- Test on Wi-Fi, 5G, 4G, and 3G networks
- Validate behaviour in offline mode
- Test low-bandwidth scenarios
- Verify switching between Wi-Fi and mobile data
- Test airplane mode during active sessions
- Validate data synchronization after reconnection

Performance & Stability Testing

- Monitor CPU usage during app usage
- Track memory consumption
- Evaluate battery usage impact
- Test responsiveness under heavy usage
- Perform stress testing with multiple simultaneous actions
- Run long-duration idle tests
- Check for memory leaks and unexpected crashes

Security & Data Handling

- Verify secure login and authentication processes
- Test data encryption during transmission
- Validate secure storage of sensitive data
- Test scenarios when permissions are denied
- Confirm sensitive data is inaccessible after logout
- Validate secure handling of transactions and form submissions
- Test behaviour when permissions are revoked

UI & Accessibility Testing

- Verify layout consistency across devices and screen sizes
- Test portrait and landscape layouts
- Validate dark mode and theme compatibility
- Test dynamic content rendering
- Verify multi-window support on Android
- Test VoiceOver (iOS) and TalkBack (Android)
- Check font scaling and accessibility settings
- Validate color contrast and readability

Regression Testing

- Run regression testing after every release
- Re-test previously fixed bugs
- Validate critical user flows
- Confirm integrations continue to work correctly
- Maintain and review a regression bug list

Advanced Testing Scenarios

- Perform exploratory testing to uncover unexpected issues
- Simulate interruptions like calls, notifications, and app switching
- Test localization including language, region, and date formats
- Validate background processes and scheduled tasks
- Conduct beta testing with real users
- Test push notifications and deep links