Checklist for mobile testing

## 1.Functional Testing Checklist of Mobile App

In mobile app [functional testing](https://artoftesting.com/functional-testing), functionalities, or features of the developed application are tested.

* Check validations of the fields. Validations include mandatory check, characters check, length check, and error messages.
* Check the interaction between different modules of the application.
* Check whether the application is compatible with various platforms/devices, operating systems, browsers.
* Check whether the application is compatible with various screen sizes, resolutions.
* Check whether the application is working in the desired manner in portrait and landscape modes.
* Check the application functionalities in various networks and various network providers.
* Check the application in flight mode and silent mode.
* Check the camera and sensor-specific functions.
* Check location-specific functions.
* Check the application working when the phone is locked and unlocked.
* Check the application working when any phone call and/or SMS is received.
* Check the scrolling functionality of the application.
* Check the installation and uninstallation process of the application.
* Check the update process of the application if a new update is available.
* Check the application working when the device memory is full.
* Check the application working when any other applications’ notifications are received.
* Check battery performance when the application is running actively and when the application is running in the background.
* Check data handling of the application i.e. data update and data deletion.

## 2.Usability Testing Checklist of Mobile App

In mobile app [usability testing](https://artoftesting.com/usability-testing), the main goal of the testers is to validate whether the application is easy to use and user-friendly.

* Check navigation between different modules of the application i.e. whether the user can move between different screens in the desired manner.
* Check whether the whole application has a uniform and eye appealing color.
* Check whether the whole application has a uniform font size.
* Check whether the buttons and icons have a uniform size in each module.
* Check whether the text of the buttons and other input/output fields are suitable for the functionality of the button/field.
* Check whether the text of the error messages is user-friendly (in a manner that is easy to understand and not too harsh) and uniform for all the fields.
* Check whether the flow of the application is easy to understand for the user.
* Check whether tooltips or placeholders are provided for actions that are not easily understandable.
* Check the speed of the application whenever the user clicks on any button or icon.

## 3.Performance Testing Checklist of Mobile App

In mobile app [performance testing](https://artoftesting.com/performance-testing), the performance of the application under a certain load and/or stress is tested.

* Check the application performance when the device is charging.
* Check the application performance when the battery is low.
* Check the application performance when the battery is fully charged.
* Check the application performance when multiple users are logged in at the same time.
* Check the application performance when the user tries to enter multiple characters continuously.
* Check the working of the application when the internet connection is off and network connectivity is low.
* Check the working of the application when the internet connection keeps fluctuating.
* Check the application performance when the internet connection is switched between high and low-speed networks.
* Check the speed of the application when the user tries to click on multiple buttons/icons at the same time.
* Check the application performance when the user is in a moving condition i.e. either in a vehicle or walking.
* Check the application working in the event of a system crash or when the application is stopped abruptly.
* Check the launch time of the application.

## 4.Security Testing Checklist of Mobile App

In mobile app [security testing](https://artoftesting.com/security-testing), the application’s ability to fight against any vulnerabilities is tested.

* Check whether the application has proper rules and mechanisms in place to authenticate users on the platform.
* Check whether the application has strong password policies. (Especially applicable to banking and finance, social media or e-mail apps)
* Check whether the application has a proper mechanism in place to recover forgotten passwords.
* Check whether the deactivated users and users entering old passwords are not allowed to log in.
* Check whether the confidential data of the user is not accessible to other users on the platform.
* Check whether the confidential data such as payment information and passwords are stored and displayed in an encrypted format.
* Check whether the data entered by the user and data stored by the application is correct.
* Check whether the application can fight against brute force attacks, SQL injection attacks.