

1. What are the popular Mobile operating systems?

Ans. The most popular Mobile operating systems are:

- Android
- iOS
- Windows Phone
- Symbian
- Java ME

2. Five key challenges in mobile application testing?

Ans.

1. Touch Screen: The signals or signs which form an indication in the process of data input cause a challenge in the testing process wherein the testing of touch screens needs to be more intricate and stable.
2. One-size doesn't fit all: Some of the popular open source tools have limitations like no image comparison, slow script execution for the iOS platform etc.
3. Real-time, anytime and offline: Some apps are expected to work the same in no-network condition, too. The connection APIs are designed after considering these factors, but the real world environment can have its own set of issues.
4. Different OS versions : App developers need to support older OS versions and older API's, and testers need to test for those.
5. Power consumption and battery life: We are running lots of apps during the day and several processes are running in the background

without us even noticing. This all requires cpu cycles which on it's turn require power and thus the batteries tend to dry.

3. Two categories of Mobile Testing and the difference between them?

Ans. Mobile Device Testing:

Mobile device testing is a process where the newly launched mobile device is tested to check the functionality of the component whether it is working in a right way, that is all the new features they provide in the component is working according to the requirements or not.

Mobile App Testing:

Mobile app testing is nothing but the testing of a developed app usually done by mobile app development companies to see whether it is working with all the features they are newly launching and also checking whether the developed app is running correctly in different devices like mobiles, tablets etc., and also the different platforms like Android, iOS, Blackberry and Windows.

- Mobile device testing includes hardware testing like Battery testing, Bluetooth, Camera features so on and also software testing like OS functionality but mobile app testing includes only software testing like functionality, usability and performance of the app.
- Mobile device testing includes testing different parts of the mobile and also the overall component but mobile testing includes testing whether the app is compatible with the different platforms like Android, IOS, Blackberry and Windows. It also includes testing of different devices like Mobiles and Tablets.

4. What are the extensions for the Android and iOS executable files?

Ans. iOS- .IPA file

Android- .APK file

5. What are the Pros and Cons of Hybrid, Native and Web app?

Ans. 1. Web apps are not real applications; they are actually websites that open in your smartphone with the help of a web browser.

Benefits :

- Easy access.
- Easy Development: Developing responsive design and restructuring the content to be properly displayed on a smaller screen/hardware will make any desktop website mobile friendly.
- Easy update: Just update in one location and all the users automatically have access to the latest version of the site.
- No installation required, as compared to native or hybrid app.

Downside :

- Mobile websites cannot use some of the devices features. For example, access to the file system and local resources isn't available in websites.
- Many existing websites don't support offline capabilities.
- Users won't have the app's icon on their home screen as a constant reminder. The website needs to be opened in a web browser only.

- While native and hybrid apps appear on the App Store and Google Play, web apps won't. So redistribution is not that sensible.

2. Native app is built for use on a particular device and its OS, it has the ability to use device-specific hardware and software.

Benefits :

- Native Apps live on the device and are accessed through icons on the device home screen.
- They can take full advantage of all the device features — they can use the camera, the GPS, the accelerometer, the compass, the list of contacts, and so on. They can also incorporate gestures (either standard operating-system gestures, and app-defined gestures).
- Native apps can use the device's notification system and can work offline.

Downside :

- High cost for building the app : Native apps developed for one platform will not run on another platform. An App built for Android will not run on iOS. We need to build a different App altogether for iOS. Because of this reason, we need to maintain multiple versions of the App.
- Even though you might publish native Apps, you'll want to keep the mobile website well maintained, as mobile brings more traffic. So maintenance is higher.

3. Hybrid Apps are a way to expose content from existing websites in App format. They can be well described as a mixture of Web App and Native App.

Benefits :

- Developing a Hybrid App is cheaper than developing a Native App. It can be built for cross-platforms, i.e., reduced cost for App development.
- Maintenance is simple, as there are not many versions to be maintained.
- It can take advantage of a few features available in the device.
- It can be found in the App Store, which makes the distribution easy.

Downside :

- Graphics are less accustomed with the operating system as compared to Native Apps.
- Hybrid Apps are slower than Native Apps.

6. List down the types of testing we perform for mobile apps?

Ans. • Functional Testing

- Compatibility Testing
- Localization Testing
- Performance Testing
- Security Testing

- Power Consumption Testing
- Interrupt Testing
- Usability Testing
- Installation Testing
- Uninstallation Testing
- Certification Testing
- Mobile UI Testing
 - Screen Orientation
 - Resolution
 - Gestures (Multi touch, single touch, Long touch, short touch, swipe etc.)
 - Soft and Hard Keys

7. What is the best way to test different screen sizes of the devices?

Ans. One way is to use free Google tools to do that.

1. Google page speed insights - This will test how fast your website is on mobile devices. It will also show a list of problems that are keeping it from achieving faster speed.
2. Google mobile-friendly test - You will get a red “No” or a green “Yes” answer + instructions on how to improve in case you fail to pass it

8. What is meant by Responsive testing in Mobile sites?

Ans. Mobile responsive web design is an approach followed in the website development to give the users a decent viewing experience on whatever device they are viewing. Google gives priority to the mobile-friendly sites in their search results and hence it becomes important to design a website by keeping this in mind.

- For Example, a website may look a little different on Android when compared to iOS or in Windows. But there are big challenges also that the QA faces for testing the responsiveness. The biggest challenge is the combinations of screen sizes, OS versions, the modes of the phone, the browsers and their resolutions. Hence it is difficult to decide the strategy. The other challenges include the testing time frame, tools, test prioritization etc.

9. Use Newerworlds app for the testing and log at least 5 bugs.

Ans.

This screenshot shows the Jira issue page for QB-119, titled "Redundant push notifications at very short intervals". The issue is categorized as a Bug with a Major priority and is currently in the "To Do" status. The description states: "On launch the app once in the device, it gives the notification 'Connect to the WiFi' to mark the attendance every few minutes. No option to customize this setting is available too." The issue is assigned to Japneet Kaur and reported by Japneet Kaur. The left sidebar shows a list of filters, with "Reported by Me" selected, displaying a list of issues including QB-123, QB-122, QB-121, QB-120, QB-119 (selected), QB-94, QB-57, and QB-56.

Activities Google Chrome Mon 11:06 PM

Not secure | jira.tothenew.com/browse/QB-119?filter=2

Dashboards Projects Issues Agile Create

Search

FILTERS

New filter

Find filters

My Open Issues

Reported by Me

Recently Viewed

All Issues

FAVORITE FILTERS

You don't have any favorite filters.

Order by

- QB-123 Search functionality not working
- QB-122 Leave Summary functionality ...
- QB-121 Option to view attendance of o...
- QB-120 No functionality to take action ...
- QB-119 Redundant push notifications ...**
- QB-94 Remove item from cart functio...
- QB-57 No option to book
- QB-56

Reported by Me Save as

Project: All Type: All Status: All Assignee: All Contains text More Advanced

Reporter: Current User

QE Bootcamp / QB-119 5 of 23

Redundant push notifications at very short intervals

Edit Comment Assign More Start Progress Done

Details

Type: Bug

Status: To Do (View Workflow)

Priority: Major

Resolution: Unresolved

Labels: None

Project Priority: P4

Description

On launch the app once in the device, it gives the notification 'Connect to the WiFi' to mark the attendance every few minutes. No option to customize this setting is available too.

People

Assignee: Japneet Kaur

Reporter: Japneet Kaur

Votes: 0

Watchers: 1 Stop watching this issue

Dates

Created:

This screenshot shows the Jira issue page for QB-120, titled "No functionality to take action on 'Marked absent'". The issue is categorized as a Bug with a Major priority and is currently in the "To Do" status. The description states: "There is no option available to edit the 'Marked absent' status to 'Machine not working', 'Forgot to punch in', etc." The issue is assigned to Japneet Kaur and reported by Japneet Kaur. The left sidebar shows a list of filters, with "Reported by Me" selected, displaying a list of issues including QB-123, QB-122, QB-121, QB-120 (selected), QB-119, QB-94, QB-57, and QB-56.

Activities Google Chrome Mon 11:07 PM

Not secure | jira.tothenew.com/browse/QB-120?filter=2

Dashboards Projects Issues Agile Create

Search

FILTERS

New filter

Find filters

My Open Issues

Reported by Me

Recently Viewed

All Issues

FAVORITE FILTERS

You don't have any favorite filters.

Order by

- QB-123 Search functionality not working
- QB-122 Leave Summary functionality ...
- QB-121 Option to view attendance of o...
- QB-120 No functionality to take action ...**
- QB-119 Redundant push notifications ...
- QB-94 Remove item from cart functio...
- QB-57 No option to book
- QB-56

Reported by Me Save as

Project: All Type: All Status: All Assignee: All Contains text More Advanced

Reporter: Current User

QE Bootcamp / QB-120 4 of 23

No functionality to take action on 'Marked absent'

Edit Comment Assign More Start Progress Done

Details

Type: Bug

Status: To Do (View Workflow)

Priority: Major

Resolution: Unresolved

Labels: None

Project Priority: P4

Description

There is no option available to edit the 'Marked absent' status to 'Machine not working', 'Forgot to punch in', etc.

People

Assignee: Japneet Kaur

Reporter: Japneet Kaur

Votes: 0

Watchers: 1 Stop watching this issue

Dates

Created:

Activities Google Chrome Mon 11:07 PM

Not secure | jira.tothenew.com/browse/QB-121?filters=2

Dashboards Projects Issues Agile Create

Search

Reported by Me

Save as Share Export Tools

Project: All Type: All Status: All Assignee: All Contains text More Advanced

Reporter: Current User

Filters

New filter

Find filters

My Open Issues

Reported by Me

Recently Viewed

All Issues

FAVORITE FILTERS

You don't have any favorite filters.

Order by

- QB-123 Search functionality not working
- QB-122 Leave Summary functionality ...
- QB-121 Option to view attendance of o...**
- QB-120 No functionality to take action ...
- QB-119 Redundant push notifications ...
- QB-94 Remove item from cart functio...
- QB-57 No option to book
- QB-56

QE Bootcamp / QB-121 3 of 23

Edit Comment Assign More Start Progress Done

Details

Type: Bug
Status: **To Do** (View Workflow)
Priority: Major
Resolution: Unresolved
Labels: None
Project Priority: P4

Description

There is an option to input a number only upto 30 to view the attendance in the 'Last N Days Attendance' section.

Activity

All Comments Work Log History Activity Transitions

People

Assignee: Japneet Kaur
Reporter: Japneet Kaur
Votes: 0
Watchers: 1 Stop watching this issue

Dates

Created: 2 minutes ago

Activities Google Chrome Mon 11:07 PM

Not secure | jira.tothenew.com/browse/QB-122?filters=2

Dashboards Projects Issues Agile Create

Search

Reported by Me Save as

Share Export Tools

Project: All Type: All Status: All Assignee: All Contains text More Q Advanced

Reporter: Current User

Order by

- QB-123 Search functionality not working
- QB-122 Leave Summary functionality...**
- QB-121 Option to view attendance of o...
- QB-120 No functionality to take action ...
- QB-119 Redundant push notifications ...
- QB-94 Remove item from cart funcio...
- QB-57 No option to book
- QB-56

QE Bootcamp / QB-122 2 of 23

Leave Summary functionality not redirecting correctly.

Edit Comment Assign More Start Progress Done

Details

Type: Bug
Status: **TO DO** (View Workflow)
Priority: Major
Resolution: Unresolved
Labels: None
Project Priority: P4

Description

The 'Leave Summary' option redirects to a blank page that does not display anything relevant to the functionality.

Activity

People

Assignee: Japneet Kaur
Reporter: Japneet Kaur
Votes: 0
Watchers: 1 Stop watching this issue

Dates

Created:

jira.tothenew.com/browse/QB-122

Activities Google Chrome Mon 11:07 PM

Not secure | jira.tothenew.com/browse/QB-123?filters=2

Dashboards Projects Issues Agile Create

Search

Reported by Me Save as

Share Export Tools

Project: All Type: All Status: All Assignee: All Contains text More Q Advanced

Reporter: Current User

Order by

- QB-123 Search functionality not working**
- QB-122 Leave Summary functionality ...
- QB-121 Option to view attendance of o...
- QB-120 No functionality to take action ...
- QB-119 Redundant push notifications ...
- QB-94 Remove item from cart funcio...
- QB-57 No option to book
- QB-56

QE Bootcamp / QB-123 1 of 23

Search functionality not working

Edit Comment Assign More Start Progress Done

Details

Type: Bug
Status: **TO DO** (View Workflow)
Priority: Major
Resolution: Unresolved
Labels: None
Project Priority: P4

Description

The 'Search' functionality takes input from user but does not return any results.

Activity

All Comments Work Log History Activity Transitions

People

Assignee: Japneet Kaur
Reporter: Japneet Kaur
Votes: 0
Watchers: 1 Stop watching this issue

Dates

Created: In 2 minutes

jira.tothenew.com/browse/QB-123

10. What do you understand by usability? Why it is more important to be taken care? Give 3 points of usability from real-time apps you have in your phones.

Ans. Usability is part of the broader term “user experience” and refers to the ease of access and/or use of a product or website. It should be taken care so that it should be easy for the user to become familiar with and competent in using the user interface during the first contact with the website. Three points of usability from real-time apps you have in your phones:

- Fields should not be hidden behind the keypad.
- Proper and easy navigation should be there.
- It should be platform independent whether android and iOS.

11. Should the user use their own devices or provided devices to perform usability testing? Give the reasons for “Yes/“No” or both “Yes and No” together.

Ans. It is advisable to have them test using their own devices. This eliminates issues associated with an unfamiliar, device or operating system. Encourage users to use the device as normally as possible and adapt the camera as possible or needed.

12. What do you mean by Soft Keys and Hard Keys in mobile?

Ans. Soft keys provide a way to customize the phone’s user interface depending on the context as well as your personal preferences

Soft Keys are different from Hard Keys because they are dynamic and can be changed. Hard Keys always have the same function and cannot be changed. An example of a hard key is the Hold Button, or the Volume up or Down Button.

13. Difference between Mobile application testing and web application testing?

The main difference is , a Mobile App is essentially for one particular mobile device platform and it can be installed directly onto the particular devices itself. A Web App is basically an Internet-enabled app that can be accessible via mobile device's Web browser as well as desktop Web browser.

- Testing related to gestures and other usability becomes more important in case of mobile app as compared to web app.
- Mobile app testing could be offline as well as online.