Becoming a Pro Mobile Applications Testing







MOBILE APPS: Utilities



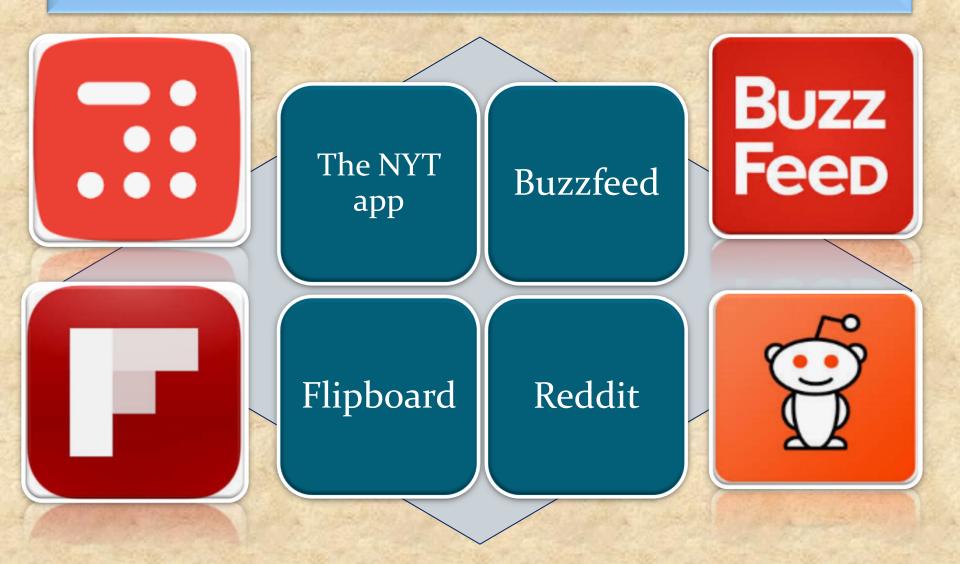
MOBILE APPS: Entertainment



MOBILE APPS: Games



MOBILE APPS: NEWS



MOBILE APPS: Productivity



MOBILE APPS: Lifestyle



MOBILE APPS: Social Networking





MOBILE APPS: Types

Tree basic types of "app"



Native Native



vbrid

Built specifically to the needs of the various operating systems such as Apple's iOS or Android

Websites built using HTML that are designed specifically for smaller screens

Native app shell with feeds from the website

MOBILE APPS: Native APP

Written using the default language for the mobile platform, which is Objective C or Swift for iOS and Java for Android.

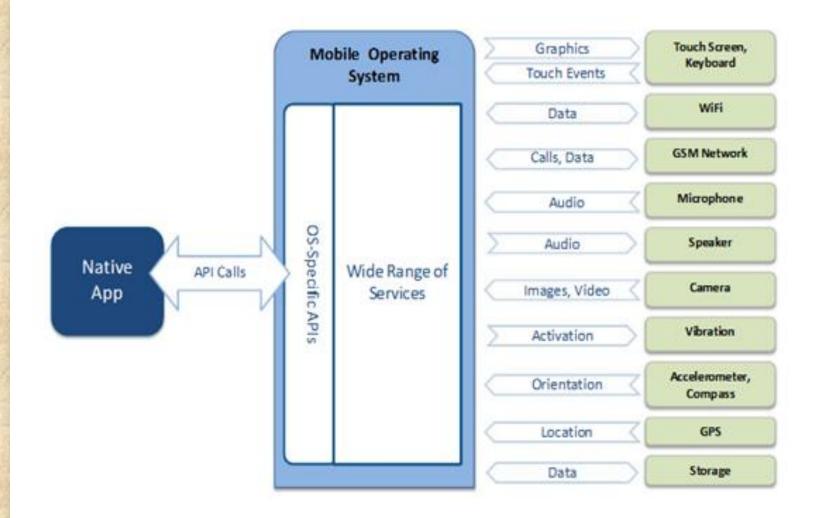
Compiled and executed directly on the device.

Using the platform SDK (API), the app can communicate with the platform to access device data or load data from an external website using http requests.

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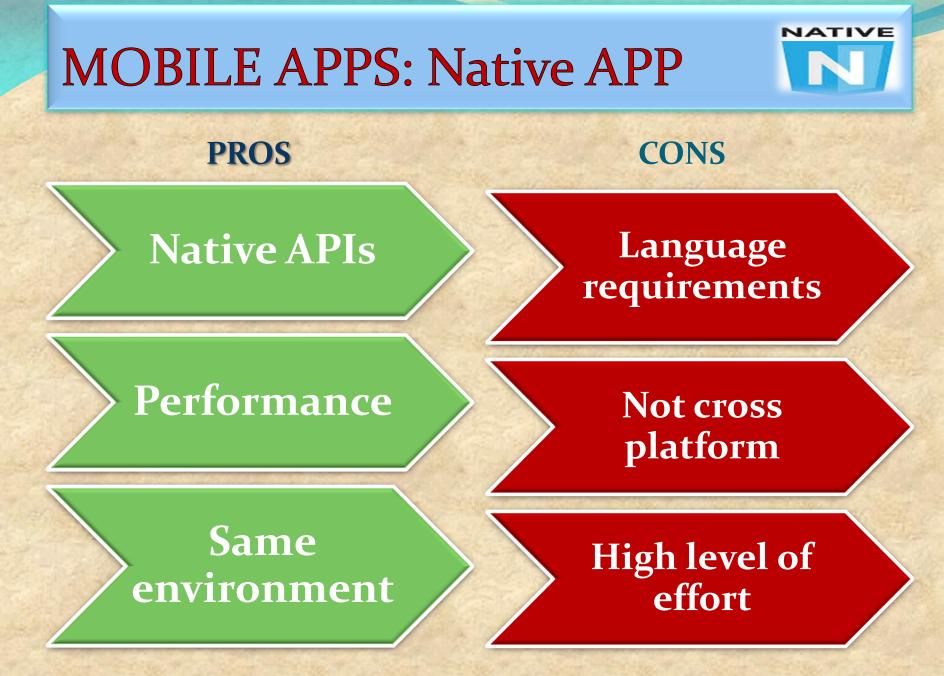
NATIVE

MOBILE APPS: Native APP



NATIVE

Anatomy



MOBILE APPS: WEB APP



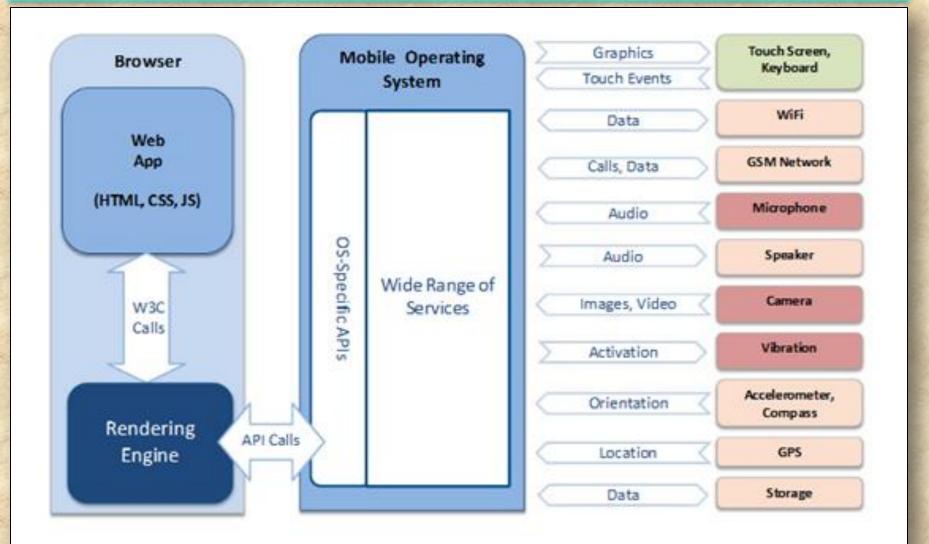
Mobile websites are applications that work well on a mobile device, but are accessed through the mobile browser.

These websites viewed on a mobile device in a mobile browser, with the exception of being designed to fit a mobile device screen size.

Web applications commonly use a combination of server-side script (ASP, PHP, etc) and client-side script (HTML, Javascript, etc.) to develop the application..

MOBILE APPS: WEB APP









PROS

Maintainability

No native access

CONS

No installation.

Requires keyboard to load

Cross platform.

Limited user interface.

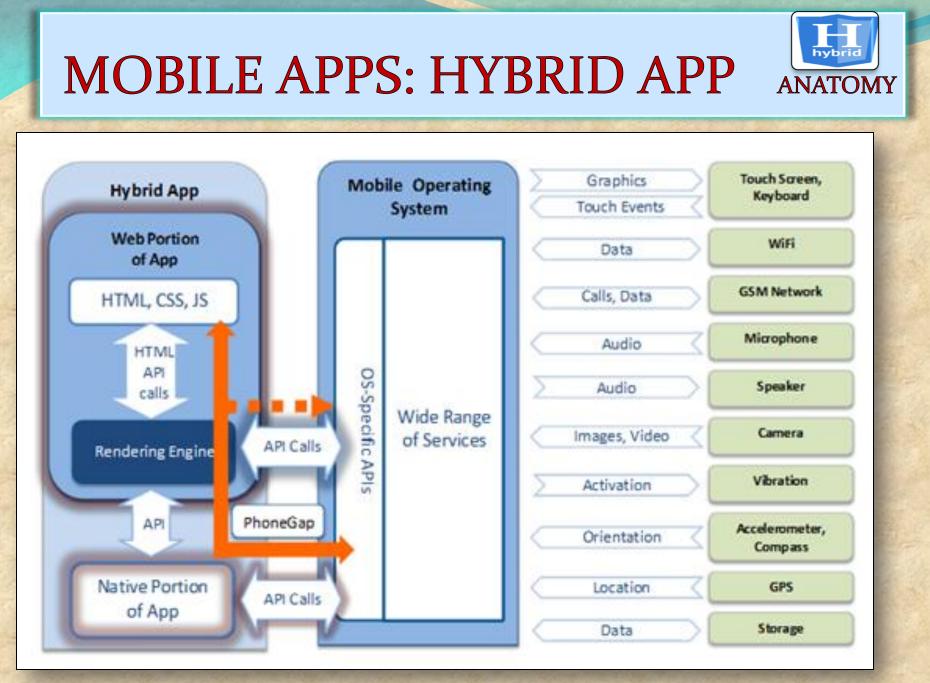
MOBILE APPS: HYBRID APP

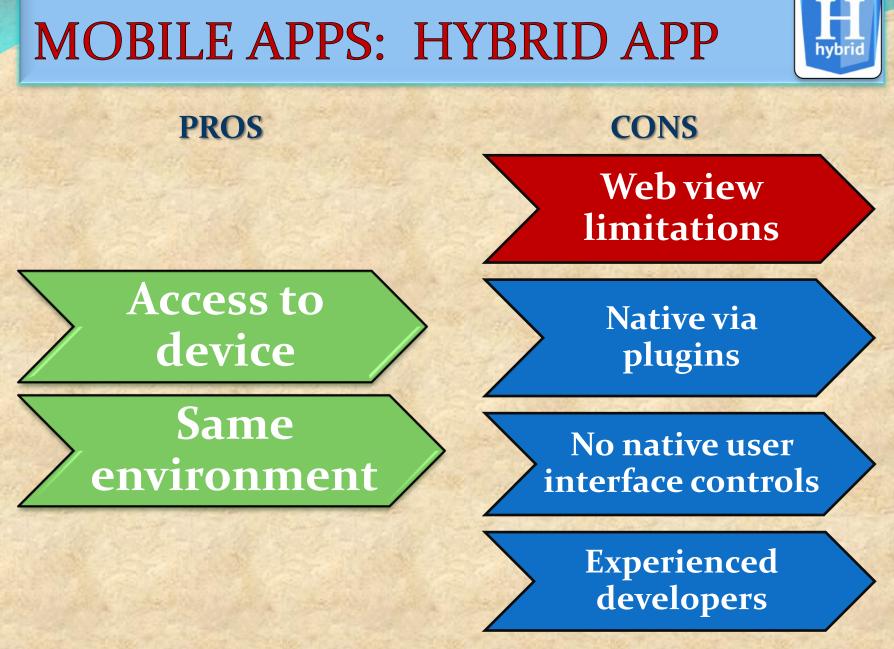


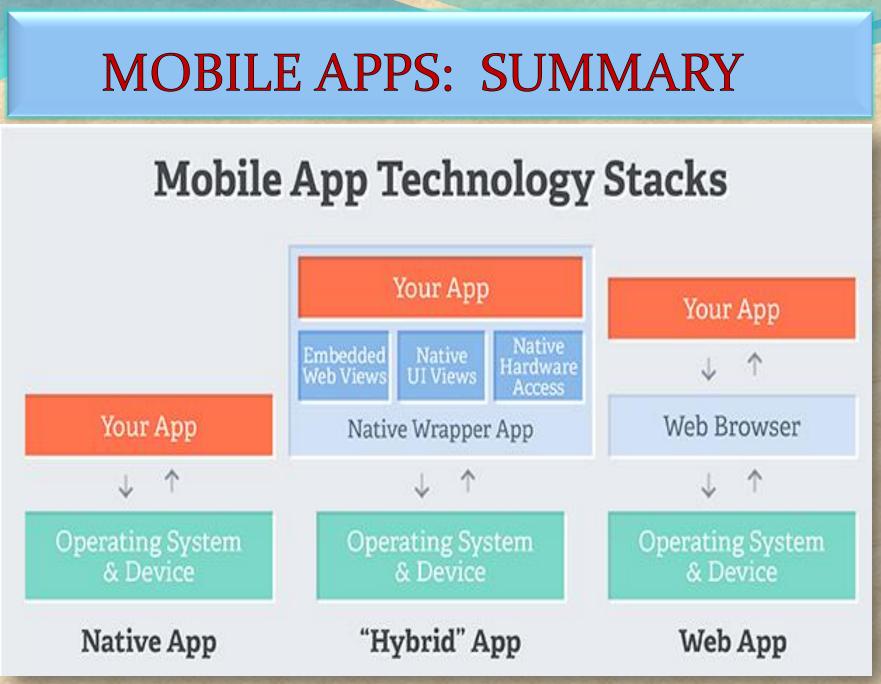
A hybrid app is one that combines elements of both native and Web applications

Hybrid apps are often mentioned in the context of mobile computing

Native source code is written and compiled into an executable program and a web based component written with HTML, JavaScript, and CSS







MOBILE APPS: SUMMARY

Native Mobile App

- ·IOS Developed using Objective-c
- Android Developed using JAVA
- ·Need to Install from APP Store.
- ·Available as an Application on Device.

Mobile Web App

- Developed using typical web development technology -HTML, CSS, Java Script.
- View size of the Web page fit to the real-estate of the device.
- Accessed through the browsers on the device

Hybrid Mobile App

•Wrapping the HTML and creating Native like look and feel (HTML within the app itself). Framework like Phone Gap support this development.

- Native Mobile App with Web view control and render the HTML directly on the web view (HTML Rendered from enterprise server).
- View size of the Web page fit to the real-estate of the device.
- ·Accessed through the browsers on the device

Mobile APPS : Conclusion

LIST	Native	HTML5	Hybrid
App Features			
Graphics	Native APIs	HTML, Canvas, SVG	HTML, Canvas, SVG
Performance	Fast	Slow	Slow
Native look and feel	Native	Emulated	Emulated
Distribution	Appstore	Web	Appstore
Device Access			
Camera	Yes	No	Yes
Notifications	Yes	No	Yes
Contacts, calendar	Yes	No	Yes
Offline storage	Secure file storage	Shared SQL	Secure file system, shared SQL
Geolocation	Yes	Yes	Yes
Gestures			
Swipe	Yes	Yes	Yes
Pinch, spread	Yes	No	Yes
Connectivity	Online and offline Copyright NataliaS	Mostly online	Online and offline

