* **What are the benefits of hybrid apps?**
  + **Access to device data**

Hybrid apps, like native apps, are able to access data that devices pick up via functionality such as GPS and camera, but also push notifications and address book information. Being able to connect with this functionality gives hybrid apps much more freedom as to the kind of things they can do.

* + **Offline working**

Because of their native infrastructure, hybrid apps can work offline. Although, while offline, data can obviously not be updated, users are still able to load the app and access previously loaded data, unlike web apps.

Data created while offline–whether captured via forms, surveys or any other way–can also be stored on the device and sent to servers as soon as the user connects to the internet.

Just like native mobile apps, hybrid apps also use the API of the device in order to store some useful information offline. This can be considered a prominent benefit that is delivered to customers who prefer to save money that is meant to be spent on data. Some mobile users have poor connectivity with their mobile devices, and the offline usage capabilities associated with hybrid apps can impress them, as well. As a result, they will be able to use the mobile app without frustration

Web applications are critically limited by their lack of offline support. This may seem like a less important issue for people who live in urban areas, where the access to high-speed Internet access is ubiquitous, but potential customers from rural areas and less developed countries could be cut off from access to the application.

* + **More resources**

On the other hand, using web technology for app content makes hybrid app development much easier. The knowledge of web technology far outstrips that of native coding, so there are many more resources and people available to deliver it.

At the same time, the resources and costs needed to code using web technologies are considerably lower than those of native ones, so companies can also save money and time.

* + **Easy scaling**

Hybrid apps are also much easier to scale to a variety of platforms and operating systems. This is because web technology is almost 100% similar across different platforms and operating systems so that code can be simply reused with no need to rebuild the whole app from scratch.

Apps created with Fliplet, for instance, work on iOS, Android and Windows 10 devices, with no need to build three separate apps.

* + **Save Time and Money/Unified development**

By far the single biggest benefit that hybrid mobile apps can offer is the unified development. Companies can save a substantial amount of money that would otherwise have to be spent on developing and maintaining separate code bases for different mobile platforms. They can develop just a single version and let their hybrid framework of choice do the heavy lifting and ensure that everything will work flawlessly.

This, of course, directly leads to lower cost of development and, potentially, greater revenue. Many small businesses wouldn’t be able to afford to target all major mobile platforms, if there wasn’t the option to do so with a hybrid framework.

* + **Write Once, Use Anywhere**

Because hybrid apps are written with HTML5 and Javascript, developers have to make fewer tweaks to the coding to work on multiple platforms, making it a true “[write once, use anywhere”](http://www.wired.com/insights/2013/11/responsive-html5-apps-write-once-run-anywhere-where-is-anywhere/) solution.

This means the app will work on an iPhone or Android phone, tablet or laptop, regardless of the operating system. Hybrid apps can do this because they automatically detect and change the user interface for each platform, and then adjust according to browser, screen size and device orientation.

This allows users to have as close to a native experience as possible without being entirely native—which, of course, takes more money and time to develop.

* + **Updates Made Easy**

Sometimes it’s annoying when you have to literally upload a new version of an app when even the smallest of changes are made to it. Fortunately, hybrid apps allow content to be [updated](https://www.google.com/search?q=updates+easy+with+hybrid+mobile+apps&oq=updates+easy+with+hybrid+mobile+apps&aqs=chrome..69i57.9352j0j4&sourceid=chrome&es_sm=93&ie=UTF-8) as much as necessary, and tweaks and improvements can be made whenever necessary without interrupting the experience of the user.

In fact, even if an internet connection is lost on a device, the app will continue to work. If updates are made during the time a device is disconnected, they are automatically made when a connection is reestablished. Any feature that adds flexibility to a user’s experience can result in customer retention and growth. Or, if the app is being used by a mobile employee, being able to access the app offline adds to efficiency.

Granted, hybrid apps are not for every business. Those who can’t afford the least bit of lag in app performance—or who need users to experience the “wow” factor of a premium app that’s been built for a specific platform—would most likely be better off spending their time and money on a native app.

## Enhanced User Experience

People who use mobile apps pay special attention to user experience. If you want to deliver an enhanced user experience to users, you need to think about hybrid mobile app development. When you open a specific website like facebook.com, google.com, wisebeards.com on two different browsers, you can figure out notable changes. This fact is applicable for mobile apps, as well. However, this can have a negative impact on user experience. Hybrid mobile app development can assist you in overcoming this, and all users will get the opportunity to experience a consistent UI as a result of it.

## Availability

Some mobile users have difficulties when it comes to downloading and installing a new mobile app. However, a large percentage of users still continue to use mobile apps after downloading. As per the statistics of 2013, about 80 million apps have been downloaded by smartphone users. However, this doesn’t mean that all the people who download apps keep on using them. Hybrid mobile app development is in a position to keep the app users away from frustration associated with this.

## Speed

People tend to use mobile apps in order to make their lives easy. However, in case if the mobile app takes a lot of time to give out responses, you would not feel like using it. This is one of the major difficulties that native mobile app developers will have to face. For example, if a mobile app is associated with large images, it would take some time for the network to load those images. Hybrid mobile apps are in a position to help users stay away from this hassle. It can deliver a seamless experience to the users as well.

## Ease of Integration

You can find some similarities between hybrid mobile apps and native mobile apps. For example, both these apps use the programming language of the device in order to synchronize with other compatible apps. This can keep app developers away from the hassle that is associated with integration. As a result, the hybrid mobile apps would work perfectly well with messaging, cameras, GPS, and other device information in order to provide the best possible user experience. This can contribute towards enhanced customer satisfaction at the end of the day.

In case of [mobile development](http://www.triconinfotech.com/mobile-application-development/) there is no approach like ‘one-size fits all’. You are free to develop native, web-based or hybrid mobile app. But out of these the most preferred one is hybrid mobile app, as it is loaded with several benefits. Let’s have a glance at some of the most prominent benefits of hybrid mobile app development:

* + **Handiness**

It is seen that some mobile users have difficulties while they download or install a new mobile app. But still, a large percentage of users continue to use mobile apps after downloading. However, this doesn’t mean that all the people who download the apps are using them constantly, but your customers will expect to find your app there. Hybrid mobile app development keeps the app users away from frustration associated with this.

* + **Haste**

Usually people use mobile apps to make their lives easy but if the mobile app takes a lot of time to give out responses, then no one would not feel like using it. This is one of the key difficulties that native mobile app developers will have to face. For instance, if a mobile app is associated with large images, it would take some time for the network to load those images. Hybrid mobile apps help users to stay away from this hassle and deliver a seamless experience to the users as well.

* + **Fast deployment**

The Minimum Viable Product (MVP) approach necessitates the fast deployment of functional solutions in order to be the first to penetrate the market and gain a substantial competitive advantage. Those who need to have their app in the App Store as fast as possible should seriously consider using hybrid applications.

A [hybrid](http://www.triconinfotech.com/hybrid-application-development/)application is a perfect blend of distinct elements, approaches and technologies, which leverages on both web and native mobile technologies. Our mobile application developers are experts in hybrid mobile apps that offer a unique experience to the users.

Hybrid apps give a short cut to deploy web apps as native apps by wrapping the web app code using a native framework such as PhoneGap. The distinct advantage the hybrid option gives is the reduction of development cost and time for rolling out apps for various mobile platforms using the same skill sets required for web application development. Wrapper technology frameworks which are available for most popular mobile platforms also expose some platform specific features, thus making them richer than pure web apps.

Hybrid mobile applications have their place in every situation where fast development is the main priority or where the high cost of targeting each platform with an individual native application would be downright prohibitive. Big players and companies who need to stay on top of the latest development are not likely to sacrifice performance and control. However, it may be just a matter of time before hybrid application frameworks reach such a high level of maturity that all previously mentioned negatives will simply disappear.

* **Main disadvantages of hybrid mobile apps**

It would be unfair to ignore the main disadvantages of hybrid applications and paint an unrealistic picture that doesn’t tell the whole story. Because as much as hybrid apps can help small and medium sized business reach wide audiences, they are also limited in several critical ways.

* + **Performance**

Hybrid apps add an extra layer between the source code and the target mobile platform: the particular hybrid mobile framework, such as Ionic, Cordova, Onsen, Kendo, and many others. The unsurprising result is a possible loss of performance. It really varies from application to application just how noticeable the difference can be, but the fact that Facebook migrated their mobile application from HTML5 to native shows that there really can be a significant difference, at least for large-scale applications. Mark Zuckerberg even went on to say that “The biggest mistake we’ve made as a company is betting on HTML5 over native.”

* + **Debugging**

That extra layer also makes debugging a potential nightmare. Developers have to rely on the framework itself to play nicely with the targeted operating system and not introduce any new bugs. Since developers are not likely to have a deep knowledge of the targeted platform, figuring out the exact cause of an issue can be a lengthy affair.

# Benefits of Hybrid App Development With the Ionic Framework

### Developing your hybrid mobile app with the Ionic framework lets you quickly create versatile cross-platform apps with a unified look and feel.

These days there's a mobile application for everything: dating, music, insurance claims, gaming, email, ride sharing, and so forth. By the time that you imagine an application, it's most likely available for download. More importantly, as clients connect with organizations, they hope to work with them by means of their smartphones.

Hybrid mobile app development with Ionic guarantees that you have the speed of web advancement alongside the customized client experience that comes through local portable application improvement. These Ionic framework applications are worked through HTML5, CSS, and JavaScript web measures and run inside a compartment that lets them be introduced likewise to a local application. Furthermore, once made, you can distribute your hybrid application in the Apple, Google, and Windows App Stores.

The Ionic framework is an AngularJS based structure that enables a developer to utilize a combination of a few programming languages, like HTML5, CSS, and JavaScript. With the assistance of these languages, hybrid app developers will have the capacity to outline innovative UI and present easy-to-understand features for their targeted audience.

## ****Platform Independent Framework****

Ionic can recognize the platform specific advanced CSS proportional to the native look and feel on different mobile operating systems. It reduces the requirement for code changing as it gives the codes of mobile-optimized HTML, JS, and CSS components. Aside from this, Ionic incorporates into AngularJS, which turns into a robust structure that makes code more manageable. This engages startup businesses to turn out more of the latest ideas at a reduced cost.

## ****Cross-Platform Mobile App Development With Ionic****

Building an application without a moment's delay is essential, and it should be compatible with all mobile devices. However, Ionic takes less time, resources, and effort, and aids in giving a unified look and feel. Besides, Ionic helps with building applications quickly and with expertise, and deploys standard tools with a solitary code base.

## ****Default User Interface****

Ionic has many default CSS and JS parts that cover the vast majority of the basic things you need to make a mobile application. For example: sliding menus, shape inputs, caches, routes, tabs, sliding boxes, and much more. The default styles are basic, smooth, and you can without a doubt redo them by adding pre-defined CSS classes to the component.

## ****Based on AngularJS****

With regards to creating mobile and web applications, AngularJS is a broadly preferred framework for designers. The extensions to HTML's sentence structure offered by AngularJS are extremely useful for mobile app designers. The Ionic structure utilizes AngularJS to offer a bunch of center functionalities to the designer with the goal that they can incorporate alluring components into the application. AngularJS is an ideal approach to make program based applications, while with the assistance of the Ionic structure, versatile designers can make hybrid applications and web applications.

## ****Utilizes Cordova Plugins****

Plugins play an essential part in Ionic application development. Modules are coded in JavaScript and come appended to the application. Ionic framework application development utilizes Cordova plugins to help designers in accessing different components of the versatile framework- for example, camera, GPS, and so on. According to your business and offered administrations, mobile app developers can utilize any of these modules to build their ideal mobile application.