**IONIC FRAMEWORK**

**Introduction**

Companies do understand the dominance of mobile apps and they are finding all ways to provide their customers the convenience of using their services/products and approaching them on the go.

Now in the present day scenario where we desire to develop code for web, mobile application development and native application. Then ionic framework is best option. IONIC has streamlined the development of multi-platform applications, bringing a classy feel to the space of hybrid apps.

**Ionic Framework Features**

* Free and open source
* Fully cross platform
* Premier Native Plugins
* First-class Documentation
* Use over 120 native device features like Bluetooth, HealthKit, Finger Print Auth, and more with Cordova/PhoneGap plugins and TypeScript extensions.

**Insights**

* Basically, a framework is a collection of code used in object oriented programming.Basic idea is to create a collection of objects and methods that can be used by other programmers while program in their language .
* Forexample , a lot of game designer need to code for movement of objects like creating bouncing balls , objects . Now this will be a useless task for each programmer to code each time the same task so rather create a collection of codes (by this i mean framework ) for these kinds of ballistic movements
* that can be used cumulatively by each and every programmer. Thus the programmer can load the framework and then
* One more example be if you want to add a map to your application coded in c++. then you can easily load a framework from google maps framework instead of creating and coding a complex code for the same.
* Built with real app examples, component demos, guides, and how-to’s to get you up and running with mobile apps faster than ever before
* Compared to hybrid applications, mixing Ionic code with native mobile app code in PhoneGap (now called Apache Cordova) allows for higher performance of the resulting product
* Can create icons in any project with the ionican library in non-ionic web app
* TestFlight is used for user testing with ionic.

**Limitations**

* Though ionic is a great deal but at the same time for a beginner who has less knowledge about framework .
* If you're developing an app for the first time and need to invest in learning a framework, then learning Android/iOS development is better. Angularjs has quite a steep learning curve**.**
* Testing can be tricky since the browser does not always give you the right information about the phone environment. There are so many different devices as well as platforms and you usually need to cover most of them.
* Hybrid apps tend to be slower than the native ones.