

HYBRID APPLICATION DEVELOPMENT

- The heart of a hybrid-mobile application is still just an application that is written with HTML, CSS, and JavaScript.
- However, instead of the app being shown within the user's browser, it is run from within a native application and its own embedded browser, which is essentially invisible to the user.
- For example, an iOS application would use the WKWebView to display our application, while on Android it would use the WebView element to do the same function.
- This code is then embedded into a native application wrapper using a solution like Apache Cordova (also known as PhoneGap) or [Ionic's Capacitor](#).
- These solutions create a native shell application that is just the platform's webview component in which it will load your web application.
- This gives you the ability to create and publish true native applications that can be submitted to each of the platform's app stores for sale.

STEPS TO CREATE AN HYBRID APP:-

- First you should install Node js and npm installed in your pc
- Then open command prompt and type the following commands :-

❖ **npm install -g cordova:-**

- This code will install the required attributes and packages for npm and cordova.

❖ **ionic start helloworld blank**

- This command will make a new project as helloworld with all the files and data from ionic .

❖ **Change the directory to helloworld**

- Cd helloworld

❖ **Change the code in files in index.html**

- Replace the code in index.html code with the following code....

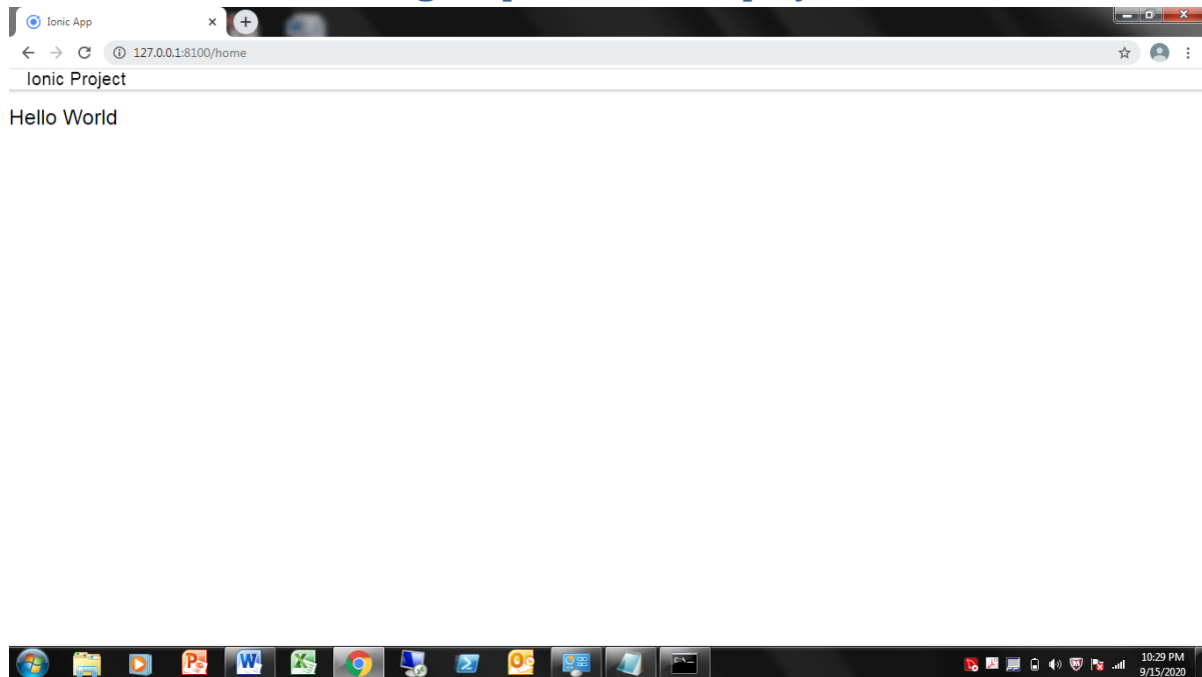
```
<ion-header>
  <ion-navbar>
    <ion-title>
      Ionic Project
    </ion-title>
  </ion-navbar>
</ion-header>
<ion-content padding>
  <h2>Hello World </h2>
</ion-content>
```

❖ **Ionic serve**

- This step will execute your ionic code in browser in local host site .
- This step will give the output of the code.

❖ open the app in 127.0.0.1:8100

❖ The following output will be displayed in browser



How to create and Ionic Android app:

Steps to create an ionic android app:

1. After you have built the web app next command you should type is `ionic cordova platform add android`. This will add an android platform to your web app directory.
2. Now type `ionic cordova build android` to start building your android app.
3. Now type `ionic cordova run android`, If you have connect your machine to a phone and turned on USB debugging the app will export to your pc and if you are running an emulator the out will be like this.