# H.A.D. Practical 1

## What is a hybrid app?

* This solution is a blend, hence the name hybrid, of both native and web solutions. Where the core of the application is written using web technologies (HTML, CSS, and JavaScript), which are then encapsulated within a native application. Through the use of plugins, these applications can have full access to the mobile device’s features. To better understand this approach, let’s break down how it all fits together.
* 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](https://capacitor.ionicframework.com/). 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.

## How to create and ionic web app:

#### The requirement for creating an Ionic web app is:

#### 1.Node JAVASCRIPT

#### 2.NODE PACKAGE MANAGER (NPM)

## Steps for creating Ionic Web app:

#### Run the below commands in the command prompt or terminal

### Install ionic usingnpm install -g ionic

### 2. Get ionic info using ionic info

### 3. To create an ionic app type ionic start <app name>

### 4. Then it will ask to choose a framework if you want to make it in angular choose angular

## How to create and Ionic Android app:

### Steps to create an ionic android app:

### After you have built the web app next command you should type is ionic cordovaplatform add android .This will add and android platform to your web app directory.

### 2. Now type ionic cordova build android to start building your android app.

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