# Hybrid App Development

with Ionic

#### **Ionic: Underneath it all**

Ionic is a front-end UI framework that handles all of the look and feel and UI interactions in your app.

To install an app on a mobile, it has to be native, or it can be wrapped in native wrapper.

Cordova is a tool that wraps our code in WebView.

Ionic also uses AngularJS for a lot of the core functionality of the framework.

And the whole thing used NodeJS, which is a command-line tool that can be run as a regular web server and lets one run JavaScript programs.

# **Preparing The Environment**

First, we need to install NodeJS: <a href="https://nodejs.org/en/">https://nodejs.org/en/</a>

This will allow us to install any plugin and package from Ionic and Cordova.

Once NodeJS is properly installed. We use the terminal to install any plugin and package from Ionic and Cordova.

sudo npm install -g cordova ionic

# First Ionic App

Start a new app by typing only 4 words.

ionic start myApp sidemenu

Ionic provides 3 templates:

- blank
- tabs includes a title header bar and and a footer with links to tabs
- sidemenu includes a collapsible lefthand sidebar

#### **Ionic Platforms**

Preview the list of platforms that Ionic support:

ionic platform list

Add a new platform

ionic platform add android

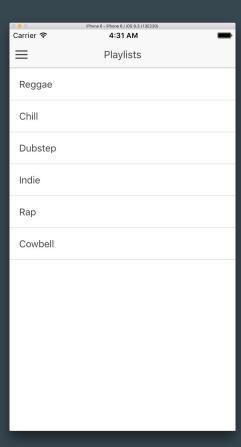
Remove a platform

ionic platform rm android

```
Mhamads-MacBook-Pro:myApp mhamadk$ ionic platform list
Installed platforms: ios 3.9.2
Available platforms: amazon-fireos, android, blackberry10, browser,
firefoxos, osx, webos
```

# Running Your New App

ionic run ios



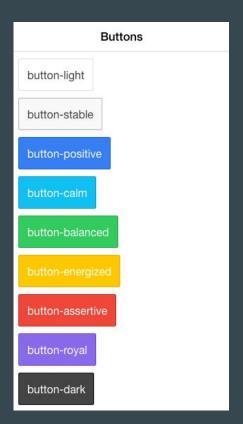
#### Features & Components

The beauty of Ionic is in it's slick UI.

http://ionicframework.com/docs/

Ionic provides CSS Components like Header, Buttons, Cards, Tabs, Grid, etc..

```
<button class="button button-stable">
   button-stable
</button>
<button class="button button-positive">
   button-positive
</button>
```



# Features & Components

Ionic provides JavaScript components like:

- Lists
- Loading
- Modal
- Popover
- Side Menus
- etc..

Most features are composed of a mix of HTML and JS.

The popover feature needs:

- 1. A button that will trigger the click event.
- 2. The code that will be triggered once we click the button.
- 3. The HTML to display once the code work.

1. A button that will trigger the click event.

```
<button ng-click="openPopover($event)">0pen Popover</button>
```

2. The code that will be triggered once we click the button.

```
angular.module('myApp', ['ionic'])
.controller('MyController', function($scope, $ionicPopover) {
  $ionicPopover.fromTemplateUrl('my-popover.html', {
    scope: $scope
 }).then(function(popover) {
    $scope.popover = popover;
 });
  $scope.openPopover = function($event) {
    $scope.popover.show($event);
  $scope.closePopover = function() {
    $scope.popover.hide();
  //Cleanup the popover when we're done with it!
  $scope.$on('$destroy', function() {
    $scope.popover.remove();
 });
});
```

This is what runs when you click the button.

3. The HTML to display once the code work.

```
<ion-popover-view>
    <ion-header-bar>
        <h1 class="title">My Popover Title</h1>
        </ion-header-bar>
        <ion-content>
        Hello!
        </ion-content>
        <ion-content>
        </ion-popover-view>
```

There is nothing like trying it for yourself.

Check this codepen for a working example of the Ionic Popover.

http://codepen.io/ionic/pen/GpCst

# lonic is strong with You

If you have a problem, or if you wish to talk to other Ionic enthusiasts, check these:

Ionic Forums: <a href="https://forum.ionicframework.com/">https://forum.ionicframework.com/</a>

Ionic Slack Channel: <a href="http://ionicworldwide.herokuapp.com/">http://ionicworldwide.herokuapp.com/</a>

Ionic Subreddit: <a href="https://www.reddit.com/r/ionic/">https://www.reddit.com/r/ionic/</a>

Ionic Twitter: <a href="https://twitter.com/IonicFramework">https://twitter.com/IonicFramework</a>