



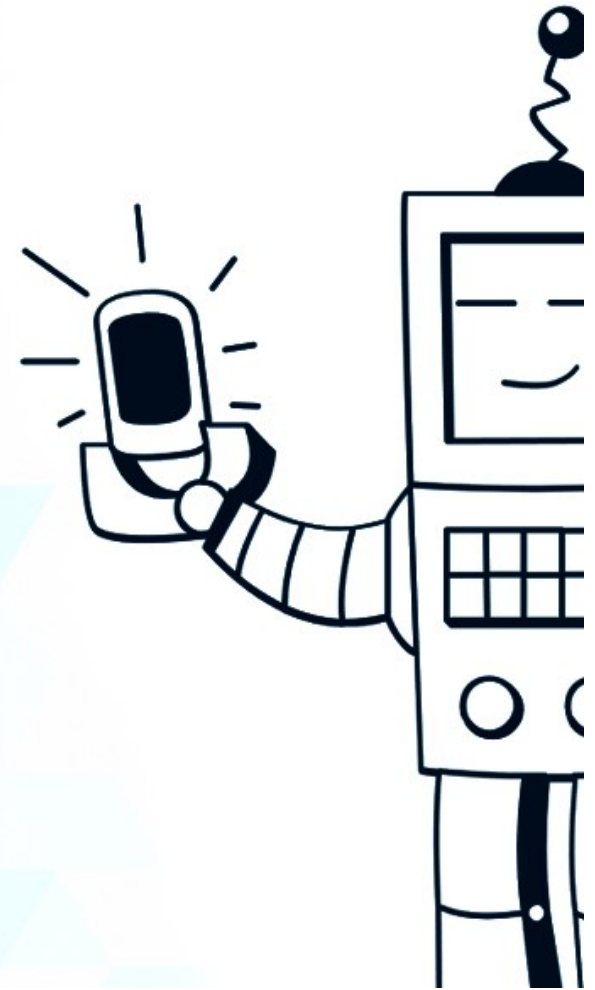
Adobe  
PhoneGap

and



ionic

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## **Before we begin...**

### **Technical Skill :**

HTML5, CSS3, ES6 or above

### **Hardware and software :**

IDE : Visual studio code

Browsers : Chrome latest

Devices : Android or iPhone

Platform : Nodejs latest, Android Studio, XCode

Version Control : git

User Rights : Administrator rights on their laptops

Network : Internet access to download  
from git and npmjs.org

# About me

**Vijay Shivakumar**

Designer | Developer | Trainer



CERTIFIED EXPERT

Training & Consultation of  
Contemporary Web Technologies and Adobe products from past 19 years



# About you

Designer

Developer

Architect

Business Analyst

Technology Enthusiast

## Objective

## About This Course

Understand and explore Process in building Hybrid Application using Cordova

Write Hybrid Apps using IONIC and Plain JavaScript/ES6

Understand members of Angular 10 bundle

Develop programs using Angular 10 platform

Workflow for fast Angular 10 application creation with Angular CLI

Ionic 5x for hybrid development

Capacitor / Cordova / Phonegap

# Prerequisites

Tech stack needs

NodeJs

JDK(set JAVA\_HOME)

Android Studio (set ANDROID\_SDK\_ROOT)

Intall

Angular ( npm i @angular/cli -g )

Ionic ( npm i @ionic/cli -g )

Cordova ( npm i cordova -g )

Phoneygap Desktop app

Phoneygap developer app on phone

# What is Ionic ?

What can I do with it...

Ionic can be used to build a web app with or without any framework.

Ionic works with ES5, ES6, Typescript, ReactJS, VueJS, Angular etc.

Ionic can be used to build web apps , progressive web apps or hybrid mobile apps  
(with native features)

Ionic also has set of platform adaptive web components

Ionic has tools to convert web app to native mobile app

Ionic helps to speed up web and mobile development

Ionic has components library with builtin look and feel

Ionic has CLI to test apps on emulators and real devices

# IONIC History

How we came here...

2013	Ionic 1	with Angular 1
2016	Ionic 2	with Angular 2
2017	Ionic 3	with Angular 4
2019	Ionic 4x	can work with anything along with angular
2020	Ionic 5	Magnesium February 11 2020 / updated till 5.3.2 in Aug helps generate native components with help of capacitor



# What makes Ionic ?

## Building block of Ionic

Ionic CLI	Used to create ionic applications / publish / preview / debug
Ionic UI Components	User interaction, data display widgets
Ionic Themes	Styles, CSS, layouts etc
Ionic Navigation	Routers
Ionic State Management	Data and usage in the application
Native Features	Accessing device features, contacts, camera, geolocation.

## Pre-launch check-CLI

before we dive in

`which ionic` : tells where ionic is installed

`ionic --help`

`ionic --start --help`

`ionic signup / login / logout`

# Ionic CLI

## Basic start options

- no-livereload : Do not spin up dev server just serve files
- no-open : Do not open a browser window
- local : Disable external network usage
- lab / -l : Test your apps on multiple platform types in the browser
- ssl / -s : use HTTPS for the dev server
- prod : sets the build target to production

# Ionic CLI

## Advanced start options

- `-consolelogs` ..... [ng] Print app console logs to the terminal
- `-consolelogs-port=<port>` ..... [ng] Use specific port for console logs server
- `-configuration=<conf>, -c=?` .... [ng] Specify the configuration to use.
- `-source-map` ..... [ng] Output sourcemaps
- `-host=<host>` ..... Use specific host for the dev server (default: localhost)
- `-port=<port>, -p=?` ..... Use specific port for the dev server (default: 8100)
- `-public-host=<host>` ..... The host used for the browser or web view
- `-lab-host=<host>` ..... (-lab) Use specific host for Ionic Lab server (default : localhost)
- `-lab-port=<port>` ..... (-lab) Use specific port for Ionic Lab server (default: 8200)
- `-browser=<browser>, -w=?` ..... Specifies the browser to use (safari, firefox, chrome)
- `-browseroption=<path>, -o=?` .... Specifies a path to open to (/#/tab/dash)

# Ionic UI Components

What are they ?

They are normal html elements with css and JavaScript

They allow us configure them using attributes and use events to interact with them

Uses shadow DOM to contain the scope and don't affect other elements with its style

They are all built by a library called by  **stencil** by ionic team (<https://stenciljs.com/> )

They can be classified as UI / Layout