





Expected Background

- You should have good working knowledge of:
 - HTML, CSS and JavaScript
 - Angular
 - TypeScript

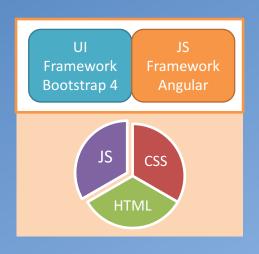
Web Design and Development

Design

- User Interface (UI)/ User
 Experience (UX) Design
- Visual Design
- Prototyping
- Colors, Graphics and Animation

- Development, Building and Deployment
 - Web UI Frameworks:Bootstrap 4
 - JavaScript Frameworks:Angular
 - Hybrid Mobile Frameworks:
 Ionic, Cordova and
 NativeScript
 - Server-side Development:Node + Express + MongoDB

Full Stack Web Development



Presentation layer

BaaS

NodeJS Modules

NodeJS

Business Logic layer

MongoDB

Data Access layer

Course Outline

- Ionic Framework
- Cordova:
 - Cordova Plugins
 - Ionic Native Wrappers

Module 1: Hybrid Mobile App Development Frameworks: An Introduction

- Full Stack Web Development: The Big Picture
- Setting up your Development Environment: Git and Node
- Hybrid Mobile App Development: An Overview
- Ionic and Angular
- Ionic Navigation
- Assignment 1

Module 2: Ionic Components

- Floating Action Buttons
- Ionic Lists: Advanced Features
- Ionic Forms and Modals
- Alerts, Toast, Popovers, ActionSheets, and Loading
- Assignment 2

Module 3: Ionic Split Pane, Grid and Storage, and Deploying your App

- Adapting to Large Screens
- Ionic Storage
- Installing Android and iOS SDK and Platforms
- Ionic Adding Platforms, Building and Deploying the App
- Assignment 3

Module 4: Accessing Native Capabilities of Devices: Cordova and Ionic Native

- Introduction to Ionic Native
- Notifying the User
- Network Status
- Sending Email
- Using the Cordova Camera Plugin
- Assignment 4