

Ionic, Angular & Node Js Training

The friendly app platform for building cross-platform (Android, IOS and windows) apps with one codebase, for any device.

lonic provides tools and services for developing hybrid mobile apps using Web technologies like CSS, HTML5, and Sass. Apps can be built with these Web technologies and then distributed through native app stores to be installed on devices by leveraging Cordova

Tools: ANGULAR + JSON +PHP+MYSQL+IONIC+NODEJS

Angular Introduction

- Introduction to AngularJS MVC Architecture
- Conceptual Overview
- Setting up the Environment
- First Application
- Understanding ng Attributes

Expression and Data binding

- Number and String Expressions
- Object Binding and Expressions
- Working with Arrays
- Forgiving Behaviour
- Understanding Data Binding

Working with Directives

- Introduction
- Core Directives
- Conditional Directives
- Style Directives
- Mouse and Keyboard Events Directives

Filters

- Purpose of Filters
- Built-In Filters
- Uppercase and Lowercase Filters

- Currency and NumberFormatting Filters
- OrederBy Filter
- Filter Filter
- Creating Custom Filter

Forms

- Using Simple Form
- Working with Select and Options
- Input Validations
- Using CSS classes
- Form Events
- Custom Model update triggers
- Custom Validations

Modules

- Why Module?
- Module Loading and Dependencies
- Recommended Setup of Application
- Creation vs Retrieval

Controllers

- Understanding Controllers
- Programming Controllers and \$scope object
- Adding Behaviour to a Scope Object
- Passing Parameters to the Methods
- Having Array as members in Controller Scope
- Nested Controllers and Scope Inheritance
- Multiple Controllers and their scope

Two-way data binding

Services

- Understanding Services
- Developing Creating Services
- Using a Service
- Injecting Dependencies in a Service

Routing

- Introduction to SPA
- Creating HTML Templates
- Configuring Route Provider

NodeJs

- Introduction to Node JS
- Setup Dev Environment
- Node JS Modules
- Node Package Mananger
- Creating Web server
- File System
- Debugging Node JS Application
- Serving Static Resources
- Database connectivity
- Template Engines

Basic of Ionic[html/css]

- Introduction
- Computing eras & current mobile wave
- Platforms, Frameworks & Tools
- Hybrid frameworks, web tech, web APIs (backend)
- The stack HTML5/CSS3/AngularJS/Cordova+platform
- Ionic AngularJS and native-like.
- Phonegap / Cordova
- Demos and Code overview

Ionic – ToDo App

- Project Structure
 - Application Logic
 - Screen Templates
 - Ionic components
 - Navigation Stack
 - Summary

Ionic – Getting Started

Installing the tools

- Installing required npm packages
- Understanding the Ionic CLI
- Platform and SDK Android / iOS
- Starting a fresh project
- Running the project
- Viewing App with Browser
- Viewing on Android Emulator
- Viewing on iPhone Emulator

Ionic – Components

- Action Sheets
- Alerts
- Badges
- Buttons
- Cards
- Checkbox
- DateTime
- FABs
- Grid
- Icons
- Inputs
- Lists
- Loading
- Menus
- Modals
- Navigation
- Popover
- Radio
- Range
- Searchbar
- Segment
- Select
- Slides
- Tabs
- Toast
- Toggle
- Toolbar

Ionic Theming

- Text Modification
- Element Placement
- Content Space
- Setting Attributes Dynamically
- Sass Variables
- Platform Specific Styles

Integrating Device Features

- Cordova CLI
- ngCordova / Ionic native
- Device console
- · Adding Camera plugin
- Image capture and upload
- Geolocation

Ionic Data Storage

Shared Preferences

Internal Storage (Files)

External Storage(SD Card)

Ionic Device Connectivity

- Working with Camera
- Working with WiFi
- List Paired Devices
- Bluetooth Tutorial

lonic Location API

- Working with Google Maps
- Example of Android Location API
- Location API Fundamental

Ionic Multimedia

- Gallary
- Alarm Manager
- Playing Video
- Creating Audio Player
- Playing Audio
- Multimedia API

JSON: JavaScript Object Notation

- JSON Overview
- Uses of JSON
- JSON Syntax
- JSON DataTypes
- JSON Objects
- JSON Schema

- JSON Comparison with XML
- JSON vs XML
- JSON Arrays
- JSON.parse
- JSON.stringify
- JSON with PHP

Ionic CRUD Operation using php & Mysql

- Introduction to Mysql
- Mysql Basics
- Database Connectivity
- Data binding
- Crud Operation

Releasing the Ionic App

- Preparing the app for distribution
- Setting up icons and splash screens
- o Updating the config.xml file
- The PhoneGap service
- Generating installers using the Cordova CLI
- Android installer
- o iOS installer
- The Ionic package
- Uploading the project to Ionic cloud
- Generating the required keys

Live Project Work