

## **Ionic Mobile Development**

#### **Audience Course Ionic Mobile Development**

The course Ionic Mobile Development is intended for web and mobile developers who want to learn how to use the Ionic Framework for the development of cross platform mobile applications.

#### **Prerequisites Course Ionic Mobile Development**

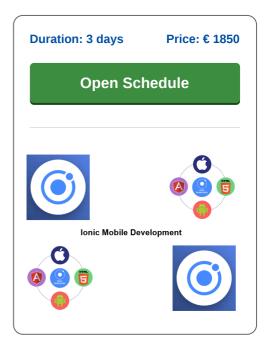
Experience with web application development and a good knowledge of JavaScript are required to participate in the course Ionic Mobile Development.

#### **Realization Training Ionic Mobile Development**

The theory in this hands-on course is treated by means of presentations. Illustrative demos are used to clarify the concepts discussed. The theory is interchanged with exercises. Course times are from 9.30 up and to 16.30.

#### **Certification Ionic Mobile Development**

After successful completion of the course the participants receive an official certificate Ionic Mobile Development.



### **Content Course Ionic Mobile Development**

In the course Ionic Mobile Development participants learn to develop cross platform mobile applications with the Ionic Framework. The Ionic Framework is an open source UI toolkit for building high performance mobile and desktop apps with good performance. In Ionic you use web technologies such as HTML, CSS and JavaScript and you can integrate popular JavaScript frameworks such as Angular, React and Vue.

#### **Ionic Intro**

The Ionic Mobile Development course starts with an overview of the architecture of Ionic. Attention is also paid to the Ionic CLI and the AppWizard with which Ionic Apps are generated via the command line or visually.

#### **Application Templates**

Subsequently Ionic Application templates such as a Blank, Tab or SideMenu template are treated. The templates form the starting point for an Ionic App and define its basic structure. Android and iOS-specific matters are also discussed.

#### **UI Components and Tools**

Attention is paid to the many standard UI components available in Ionic such as buttons, list boxes, menus and many others. Also languages, frameworks and tools that can be used in the development of an Ionic App are part of the subject matter.

#### **Web Components**

Furthermore the integration of Custom Web Components and HTML Templates in Ionic are in the course program. The Component Life Cycle, Ionic Stencil library and Ionic Core are treated as well.

#### **State Management**

The various forms of state in Ionic are discussed, such as global state, shared state and internal state. And also attention is paid to state management with a central store using actions and reducers.

#### **Database Access**

Then it is time to discuss Database Access with the Firebase database and finally attention is paid to a number of advanced topics in Ionic such as Ionic Storage and Push Notifications.

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# **Modules Course Ionic Mobile Development**

Module 1 : Ionic Intro	Module 2 : Application Templates	Module 3 : UI Components
Ionic Framework	Blank App	Action Sheets
Hybrid Mobile Apps	Tab App	Buttons and Cards
React, Angular or Vue	SideMenu App	Checkbox and Chips
Ionic Versions	App Skeleton	Floating Action Buttons
Apache Cordova	Folder Structure	Date and Time Pickers
Ionic CLI	Ionic and Android	Lists and Grids
Installing Ionic	Android SDK	Items and Inputs
Ionic AppFlow SDK	Genymotion Emulator	Menu and Navigation
Ionic start	Ionic and Ios	Progress Indicators
Template Project	Xcode and Tools	Toasts and Toggles
Adjust Angular Routes	Ionic Dashboard	Routing and Toolbars
Module 4 : Languages and Tools	Module 5 : Web Components	Module 6 : State Management
TypeScript Language	Custom Elements	State in Webapps
Data Types	Shadow DOM	Single Page Apps
Interfaces and Classes	HTML Imports	Global State
Decorators	HTML Template	Shared State
Angular Framework	Browser Compatibility	Internal State
Angular Modules	Ionic Stencil Library	NgRx Intro
Template Syntax	Stencil Slots	Immutable Store
Dependency Injection	@Prop and @State	Actions
RxJS Observables	Events	Reducers
Observers and Subjects	Component Life Cycle	Selectors
Sass CSS	Tag Selectors	Pagination
Sass Variables and Mixins	Use Ionic Core	Component Updates
Module 7 : Connecting to Firebase	Module 8 : Advanced Topics	
Firebase Realtime Database	Platform Class	
Cloud Firestore	Accessing Platform	
Database Structure	Theming	
Firebase JavaScript SDK	Look and Feel	
Firebase Web SDK	\$color Map	
Firebase Console	Overriding Configuration	
Reading and Writing Data	Ionic Storage	
Query and Navigating Data	Push Notifications	
Firebase Authentication	FCM REST Api	
\$firebaseAuth	Native Plugin	
collection-repeat	React Integration	
Saving Form Data	Deploy to Devices	