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Ionic training

2 days (14 hours)

Presentation

Ionic 8, based on modern technologies such as Angular, React and Vue, is today one of the most accessible, rapid and complete frameworks for mobile and web application development. Thanks to its multi-technology approach and close integration with Capacitor, Ionic enables the development of native mobile applications using web technologies.

In this course, after a brief reminder of your preferred framework (Angular, React or Vue), you'll learn how to use the components offered by Ionic (inputs, dropdown lists, alerts, etc.) to design high-performance, ergonomic user interfaces.

You'll also discover how to take advantage of Capacitor plugins to interact with native phone APIs, such as camera, geolocation or local storage. You'll learn how to test your applications directly in the browser, on emulators or real devices, while using Capacitor to generate and manage your native projects on iOS and Android.

As with all our training courses, this one is based on the latest version of the : [Ionic 8.4](#).

Objectives

- Discover and master the basics of the Ionic 8 Framework for developing hybrid mobile applications
- Development of a real-world application
- Use plugins and add functionality to your application
- Understand how to build and submit an application to the Stores

Target audience

Web and mobile developer.

Prerequisites

- Knowledge of JavaScript, TypeScript and [Angular](#)
- [Test My Knowledge](#)

[Contact us](#) for a personalized quote to train your team quickly in [Angular](#) and [Ionic](#) development.

Ionic 8 training program

Introduction

- When and why use a solution like Ionic?
- Ionic, Angular and Typescript

Overview of Ionic basics

- CLI commands
- Generating a new application
- Application structure
- Re-use of all Angular patterns (components, services, routers)
- Re-use of all Javascript patterns (Promises, Observables)
- Plugins for accessing native functions

Development of a common thread application

- Generating our application
- Using Firebase BaaS for the case study
- Creation of a login and registration page for our application (Angular forms)
- Tabbed navigation (view display data on one side, view to add data on the other)
- Navigation with routers to access a page for modifying the information displayed
- Using providers
- Installation of a visual "loader" for waiting during loading.
- Use the phone's internal backup to store non-sensitive information

Practical application with one or more additional tutorials.

Managing App Stores

- Requirements for deploying an application on the Android and/or Apple stores
- Discover CLI commands for adding Android and iOS platforms to your Ionic project
- Discover CLI commands for generating various assets (icons and initial loading page)
- Discover CLI commands for generating deployable apps
- Understanding how to update your application

Bonus (if the learner meets all the requirements for his or her material)

- Generate your application and deploy it on your cell phone
- Discovering mobile start-up tools
- Use of plug-ins such as camera or geolocation

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.

[Training Program Web page](#) - Appendix 1 - Training sheet

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