

Course : Ionic, developing cross-platform mobile applications

Practical course - 2d - 14h00 - Ref. IOC

Price : 1500 CHF E.T.



Ionic is a framework for building native applications using Web technologies. Based in part on AngularJS and Cordova, Ionic lets you create Progressive Web Applications for mobile (iPhone and Android) close to native applications, using HTML, CSS and JavaScript.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Setting up a hybrid development environment
- ✓ Developing a mobile application based on Ionic and Angular
- ✓ Master the productivity tools offered by Node.js
- ✓ Integrating a Mobile Backend
- ✓ Prepare application build and deployment

Intended audience

Web developers and mobility project managers.

Prerequisites

Good knowledge of HTML, CSS and JavaScript. Mastery of the Angular framework is an additional asset.

Practical details

Hands-on work

Creation of a "hybrid" IOS/Android mobile application and compilation in the Cloud.

Teaching methods

Mobile application development. 50% theory and 50% practice.

Course schedule

PARTICIPANTS

Web developers and mobility project managers.

PREREQUISITES

Good knowledge of HTML, CSS and JavaScript. Mastery of the Angular framework is an additional asset.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

1 Setting up a modern development environment

- Choice of editor, essential plug-ins.
- Best practice foundation: mobile and "Web-platform".
- Node.js development utility. Synchronization "multi-device".
- Choose and set up a mobile "workflow".
- Yeoman. Use a "scaffoldeur" project.

Hands-on work

Tool configuration.

2 Ionic SDK: presentation and implementation

- Presentation of the Ionic service offering.
- Development framework "hybrid", positioning.
- Components : Utilities, CSS, JavaScript, Services.
- Technologies: cloud services, Cordova, the choice of Angular.
- Start, emulate and debug an application.
- Contribution of the CSS Framework.

Hands-on work

Implementation of an application project.

3 Ionic + Angular: introduction to the Google Framework

- Structure of an Angular application.
- Identify resources: Services, Components, Directives, Pipe.
- Ajax: Web services consumption.
- SPA (Single Page Application) routes and navigation.
- Ionic mobile components.
- Independent use of the Ionic CSS Framework.

Demonstration

Structure of an Angular application.

4 The Ionic Framework in depth

- Targeted platform customization (IOS/Android).
- Content management: lists, loading, "scroll", "pull to refresh".
- Navigation management: menu, route and persistence.
- Interactive components : modal, action sheet, popover"
- Create effective forms.
- User gestures : swipe, slide, tap..."

Hands-on work

Development of an application based on Ionic and Angular.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

5 Manage user data persistence

- Ionic Native: using Cordova plugins.
- Adopt an "offline first" strategy.
- APIs for local backup: IndexedDB localStorage.
- Centralizing data: redefining the UX cycle.
- What features can you expect from a Mobile Backend?
- Authentication and push notification services[.

Hands-on work

Integration of a "Backend Cloud".

6 Prepare for [[build]] and deployment

- Automate the creation of icons and splash screens.
- Presentation of the services of the "Ionic Platform".
- "Build" build service.
- Continuous deployment cycle.

Hands-on work

Application preparation and deployment.

Dates and locations

REMOTE CLASS

2026 : 18 May, 1 Oct.