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Sign up

Android accessibility training

1 day (7 hours)

Presentation

Our Android accessibility training will pave the way for you to master the essential skills needed to develop inclusive Android applications.

This training course will take you to the heart of Android accessibility, exploring in detail the advanced features of the Android operating system.

You'll discover how to create inclusive user experiences by taking full advantage of Android's accessibility features, as well as design and development techniques specifically adapted for this purpose.

This training course is designed to give you the skills you need to implement accessible solutions.

You'll learn how to identify accessibility errors and correct them effectively, ensuring that your Android applications deliver an optimal experience for all users.

As with all our training courses, this one will introduce you to the latest Android resources.

Objectives

- Understanding the main challenges of Android accessibility
- Designing accessible Android user interfaces
- Master Android accessibility development techniques
- Carry out in-depth accessibility tests to ensure compliance of your applications

Target audience

- **Mobile Developer**
- Android developer

Prerequisites

- Understanding of mobile application development concepts (particularly on the Android platform)
- General familiarity with user interface design principles would be a plus

The training content will apply to both **Jetpack Compose** and UI Tool Kit Original (XML).

Accessible Android applications training program

Introduction to Android accessibility

- What is Android accessibility?
- The importance of accessibility in Android application development
- Overview of Android accessibility tools and standards
- Benefits for users and developers
- Statistics

Android accessibility basics

- Best practices in accessible design
- Managing accessibility controls in page layouts
- Creating visual contrasts
- Using the font

Accessible navigation and interaction

- Gesture navigation
- Appropriate labeling and description of interactive elements
- Button and touch gesture management
- Creating keyboard shortcuts for accessibility
- Using the Android API for accessible navigation

Testing and debugging

- Accessibility testing tools
- Debugging strategies for solving accessibility problems
- Collecting user comments

- Iterations and accessibility improvements
- User testing
- Documentation

Android accessibility in depth

- Advanced use of TalkBack and other screen readers
- Accessibility beyond the screen: voice and gesture control
- Integrating accessibility for users with reduced mobility
- In-app voice recognition support
- Overview of emerging Android accessibility technologies
- Conclusion and future prospects

Accessible multimedia content

- Making images and videos accessible
- Transcribing audio
- Subtitling for live video
- Audio description for visual elements
- Accessibility of PDF documents and eBooks
- Use of automatic transcription tools
- Converting inaccessible media into accessible formats

Companies concerned

This training 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, with 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.