INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block, Infosoft It solutions, Software Training & Development Institute, +91-9059683947|91-9182540872

Cross-Platform Mobile App Development

Introduction to Cross-Platform Mobile App Development

- Overview of mobile app development platforms (native vs. cross-platform)
- Advantages and challenges of cross-platform development
- Popular cross-platform frameworks and tools

Introduction to Mobile Development Basics

- Basics of mobile app architecture (frontend, backend, APIs)
- Understanding mobile UI/UX design principles
- Introduction to mobile app development lifecycle

HTML, CSS, and JavaScript Essentials

- Fundamentals of HTML5, CSS3, and JavaScript
- Responsive design principles for mobile
- Accessing device features using JavaScript APIs

Introduction to React Native

- Overview of React Native framework
- Setting up React Native development environment
- Building a simple cross-platform app using React Native

React Native Components and Navigation

- Understanding React Native components and props
- Styling and layout techniques in React Native
- Implementing navigation between screens

Advanced React Native Concepts

- State management with Redux or Context API
- Handling user input and form validation
- Integrating third-party libraries and APIs

Introduction to Flutter

- Overview of Flutter framework
- Setting up Flutter development environment
- Building a simple cross-platform app using Flutter

Flutter Widgets and Layouts

- Exploring Flutter widgets and their properties
- Creating responsive layouts in Flutter
- Using themes and styling in Flutter apps

State Management in Flutter

- Managing state with setState and provider pattern
- Implementing animations and gestures in Flutter
- Using plugins to access device features

Cross-Platform Development with Xamarin

- Overview of Xamarin framework and Xamarin. Forms
- Setting up Xamarin development environment
- Building a simple cross-platform app using Xamarin.Forms

Xamarin UI and Controls

- Exploring Xamarin UI controls and layouts
- Styling and theming Xamarin. Forms applications
- Implementing navigation and navigation patterns

Data Management and APIs

- Accessing and consuming RESTful APIs in cross-platform apps
- Data persistence options (local storage, SQLite)
- Implementing offline capabilities in mobile apps

Testing and Debugging Cross-Platform Apps

- Testing strategies for cross-platform apps
- Debugging techniques and tools
- Performance optimization and profiling

Deploying and Publishing Apps

- Preparing apps for deployment (code signing, app store guidelines)
- Publishing apps to Google Play Store and Apple App Store
- Continuous integration and delivery (CI/CD) pipelines for mobile apps

Advanced Topics and Future Trends

- Exploring advanced topics in cross-platform development (e.g., AR/VR, AI)
- Future trends in mobile app development frameworks
- Evaluating the choice between cross-platform and native development

Capstone Project (if applicable)

- Applying learned concepts to develop a full-fledged crossplatform mobile app
- Project-based learning with mentorship and feedback