

FLUTTER APP DEVELOPMENT



About Us

Adacode Solutions excels in innovative software solutions, specializing in IoT, Robotics, Cloud, Data Science, and more. Trust us as your partner for cutting-edge solutions, shaping the future of technology.

We Provide

- ✓ **Scholarship for Students**
- ✓ **Education Loan**
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- ✓ **Online and Offline Classes**
- ✓ **Life time Access to course Materials**

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English Training

Leveraging technology for efficiency and competitive advantage.



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Leveraging technology for efficiency and competitive advantage.



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FLUTTER APP DEVELOPMENT

Who Should Join This Course

- ➡ Students who are looking for their 1st Job
- ➡ Professionals who are working on Android/iOS Applications
- ➡ Anyone who is interested in becoming a flutter app developer

Course Details

Duration: 6-8 Months

11 Modules

Unlimited Lab Access

Final Project

Project Certificates

Course Certificates

English Training Sessions

Monthly Mock Interview Sessions

IEEE Certified Projects

Course Content

- Introduction to Flutter and Dart
- Dart Programming Language
- Flutter Widgets and UI Design
- Flutter Layouts
- State Management in Flutter
- Advanced State Management
- Networking and Data Management
- Local Data Persistence
- Advanced Flutter Topics
- Testing and Deploying
- Advanced Topics



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Syllabus

Introduction to Flutter and Dart

- Understanding the basics of Flutter
- Installing Flutter and setting up the development environment
- Creating your first Flutter app

Dart Programming Language

- Introduction to Dart language syntax and features
- Data types, variables, and control flow in Dart
- Functions and classes in Dart

Flutter Widgets and UI Design

- Exploring Flutter's widget system
- Stateless and stateful widgets
- Commonly used widgets (Text, Image, Row, Column, etc.)

Flutter Layouts

- Understanding layout concepts in Flutter
- Working with different layout widgets (Container, Column, Row, Stack, etc.)
- Responsive design and handling screen sizes

State Management in Flutter

- Introduction to state and its management in Flutter
- SetState and its usage
- InheritedWidget and Provider for simple state management

Advanced State Management

- Exploring state management libraries (Riverpod, Bloc, MobX, etc.)
- Implementing state management in larger applications
- Best practices for state management

Networking and Data Management

- Making API requests with Dart's `http` package
- Handling JSON data in Flutter
- Error handling and async programming in Dart

Local Data Persistence

- Introduction to SQLite and other local databases
- Using packages for data persistence (sqflite, hive, etc.)
- Managing local storage in Flutter

Advanced Flutter Topics

- Navigation basics in Flutter
- Deep linking and route management
- Navigation with named routes
- Basic animations in Flutter
- Custom animations with Flutter's animation framework
- Introduction to custom painting in Flutter

Testing, Deployment, and Advanced Topics

- Writing unit tests for Flutter apps
- Widget testing and integration testing
- Test-driven development (TDD) in Flutter
- Deploying Flutter apps to iOS and Android
- Advanced topics (Platform Channels, Flutter Web, Flutter Desktop)
- Best practices and code optimization