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▶ Flutter (6 Weeks Industrial Training) Course Structure

Week 1: Introduction to Flutter and Dart

- Overview of Flutter framework and its benefits for App development
- Setting up Flutter development environment (IDEs, Flutter SDK)
- Introduction to Dart programming language (syntax, data types, functions)
- Building a simple Flutter app with basic UI components

Week 2: Flutter App Basics

- Understanding Flutter app architecture
- Navigation and routing in Flutter apps
- State management in Flutter (setState, Provider, Riverpod)
- Styling Flutter apps using themes and packages

Week 3: Advanced Flutter Widgets

- Exploring advanced Flutter widgets for (ListView, GridView, DataTable)
- Form handling and validation in Flutter apps
- Animations and gestures in Flutter apps
- Using plugins to access device features in Flutter app

Week 4: Building Responsive Layouts

- Designing responsive layouts for Flutter apps
- Media queries and breakpoints in Flutter app
- Implementing adaptive UIs for different screen sizes
- Testing and debugging Flutter apps

Week 5: State Management and API Integration

- Implementing state management solutions for larger Flutter apps (Provider, Riverpod, Bloc)
- Consuming RESTful APIs in Flutter apps
- Error handling and data caching in Flutter apps
- Securing Flutter apps (authentication, authorization)

Week 6: Deployment and Optimization

- Deploying Flutter apps to hosting services (Firebase, AWS, etc.)
- Optimizing Flutter apps for performance
- Progressive Web App (PWA) features in Flutter app



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