VIJAY KUMAR CHIRUTHA SOFTWARE COURSES

www.vijaykumarchirutha.com

VIJAY KUMAR CHIRUTHA

SOFTWARE COURSES

Educating The World

81431 86860

Modules

Flutter

Module 1: Introduction to Flutter

- Overview of Flutter framework
- Flutter vs other cross-platform frameworks
- Flutter architecture (Widgets, Dart language, Engine)
- Installing Flutter SDK, Android Studio / VS Code setup
- Creating first Flutter project

Module 3: Flutter Widgets

- Overview of Flutter Widgets
- Stateless vs Stateful Widgets
- Common widgets: Text, Container, Row, Column, Stack, Image
- Layout widgets: Padding, Align, Center, Expanded, SizedBox
- Material Design widgets

Module 2: Dart Programming Basics

- Introduction to Dart language
- Variables, data types, operators
- Control flow: if, loops, switch
- Functions, parameters, and return types
- Object-Oriented Programming in Dart (Classes, Objects, Inheritance, Polymorphism, Abstraction)
- Collections: Lists, Sets, Maps

Module 4: Flutter Layouts

- Building layouts using Row, Column, and Stack
- Using ListView, GridView, and SingleChildScrollView
- Handling responsive design
- Container styling, margin, padding, and alignment

Modules

Flutter

Module 5: State Management

- **Understanding state in Flutter**
- **setState() method**
- **Lifting state up**
- **Introduction to Provider**
- **Riverpod / Bloc (optional advanced)**
- **Handling forms and form validation**

Module 6: Navigation & Routing

- **Navigation basics: Navigator.push(), Navigator.pop()**
- **Named routes**
- **Passing data between screens**
- **BottomNavigationBar and Drawer navigation**
- **Nested navigation**

Module 7: Flutter Forms & User Input

- **TextField and TextFormField**
- **Handling user input & validation**
- **Buttons, gestures, and event handling**
- **Checkbox, Radio, Switch, Slider widgets**
- **Form validation techniques**

Module 8: Networking & API Integration

- **HTTP requests using http package**
- **Fetching data from REST APIs**
- **Parsing JSON data**
- **Displaying API data in Flutter widgets**
- **Error handling in API requests**

Modules

Flutter

Module 9: Local Storage & Databases

- **SharedPreferences for key-value storage**
- **SQLite database integration**
- **Using Hive for NoSQL local storage**
- **CRUD operations with local storage**

Module 10: Flutter Animations & UI Enhancement

- **Implicit and explicit animations**
- **AnimatedContainer, AnimatedOpacity**
- **Hero animations**
- **Page transitions and custom animations**
- **Custom widgets for UI enhancement**

Module 11: Flutter Firebase Integration

- **Introduction to Firebase**
- **Firebase Authentication**
- **Firestore database integration**
- **Firebase Storage for images and files**
- **Push notifications using Firebase Cloud Messaging**

Module 12: Testing & Debugging

- **Debugging in Flutter (DevTools)**
- **Widget testing**
- **Unit testing and integration testing**
- **Writing test cases for Flutter apps**

WWW.VIJAYKUMARCHIRUTHA.COM

Modules

Flutter

Module 13: Real-Time Projects

- E-commerce app: Product listing, cart, and checkout
- Social media app: User authentication, feed, likes, comments
- Notes / ToDo app with local database
- API-driven app with REST integration
- Deployment to Google Play Store / Apple App Store

Module 14: Interview Preparation & Career Guidance

- **Common Flutter interview questions**
- **Coding challenges and scenario-based questions**
- **Portfolio and app showcase preparation**
- **Resume guidance for mobile developer roles**

OUR SERVICE

WE ARE PROVIDING MULTIPLE SOFTWARE COURSES

- DATA SCIENCE WITH AI
- DATA ANALYTICS WITH AI
- DATA ANALYST AND BUSINESS ANALYST WITH AI
- MANUAL TESTING AND SELENIUM WITH AI
- PYTHON FULL STACK WITH AI
- JAVA FULL STACK WITH AI
- DIGITAL MARKETING WITH AI
- TABLEAU + SQL WITH AI
- ORACLE, SQL, MYSQL
- EXCEL AND ADVANCED EXCEL WITH AI
- SAP [ALL MODULES]
- SALESFORCE
- GEN AI
- CYBER SECURITY WITH AI
- VIDEO EDITING COURSE
- SERVICE NOW
- MULESOFT
- AWS/AZURE DEVOPS
- MS OFFICE
- POWER APPS

www.vijaykumarchirutha.com

VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES
Educating The World
81431 86860

WWW.VIJAYKUMARCHIRUTHA.COM

About US

- We are Providing the Software Courses for both Online and Offline
- We have well Experienced and Real Time Trainers
- We give the best content to cover all your course syllabus and its practical knowledge
- We give 2 to 3 Assignments to our students which helps the more interactivity with course and its practical real time scenario knowledge
- We explains the 2 to 3 projects and letting the students to know to how to do real time projects once they get selected

THANK YOU SO MUCH

CONTACT US

+91 - 81431 86860

WWW.VIJAYKUMARCHIRUTHA.COM

HYDERABAD