

# Mobile App Development with Flutter

## Chapter 1: Introduction

1.5hrs

1. Introduction to Mobile App Development.
2. Who should pursue Mobile App Development ?
3. Commercial Aspects of Mobile App Development.
4. Careers in Mobile App Development.
5. Introduction to Mobile App Development tools (IDE)

## Chapter 2: Introduction to Flutter

1.5 hrs

1. What is Flutter ?
2. Flutter vs React Native vs Android vs iOS
3. Why Flutter ?

## Chapter 3: Installation and Setup

3 hrs

1. Flutter installation.
2. What are IDEs ?
3. Android Studio and Android Sdk installation.
4. What is Visual Studio Code ?
5. Android Studio vs VS Code

## Chapter 4: Create first Flutter Project

10 min

## Chapter 6: Flutter Basic Components

16 hrs

1. Basic Building Blocks (Widgets)
2. Scaffold and AppBar
3. Text
4. Images and Assets
5. Colors and Fonts
6. Container and SizedBox
7. Rows and Columns
8. Icons and Buttons
9. SnackBar

10. Stateless and Stateful Widgets
11. Floating Action Button
12. Bottom Navigation Bar
13. Text Field and Validation
14. Navigation and routes

## **Chapter 7: Flutter Advance Components**

40 hrs

1. Listview and ListView Builder
1. Class and Object
2. Passing data between screens
3. Extracting Widgets
4. Making reusable Widgets and Functions
5. Packages and Plugins
6. Render Webview
7. Update App Icon and App name
8. Login and Signup

## **Chapter 8: Flutter Webservice (API)**

40 hrs

1. What is API ?
2. What are JSONs ?
3. What are HTTP requests ?
4. How to use a Postman ?
5. Null Safety
6. How to parse JSON ?
7. Mapping Lists and Objects
8. Async and Await
9. How to display data from API ?
10. Shared Preferences and Caching
11. State Management

## **Chapter 10: Google Firebase**

10 hrs

1. What is Firebase ?
2. What is the use of Firebase ?
3. Integrate Firebase to Application

4. Checking out FCM (Push Notification), Crashlytics and Analytics

## **Chapter 9: Version Control (Git)**

3 hrs

1. What is Git ?
2. Gitlab, Github, Bitbucket
3. Push, Pull, Merge project in [www.gitlab.com](http://www.gitlab.com)

## **Chapter 10: Play Store**

5 hrs

1. Playstore Apps
2. Paid vs Unpaid Apps.
3. App policies
4. Review and Rollout
5. Push app to playstore

## **Chapter 11: What Next ?**