COMPLETE FLUTTER APP DEVELOPMENT COURSE

LEARN FLUTTER & DART

KICK START YOUR CAREER

RALFIZ ACADEMY

We offer internships and courses for young programming enthusiasts, who wish to kick-start a career in the IT industry. Most of our trained students are successfully placed in MNCs like TCS, Infosys, and other companies
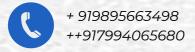
WE OFFER

FLUTTER COURSES

Kick start your mobile app developer career in no time

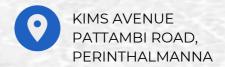Tailor made by industry experts, excellent placement record

ACADEMIC PROJECT SUPPORT

We offer support for completing your academic project.

Excellent training, documentation support, mock viva. and lot more

CONTACT

📞 + 919895663498
++917994065680

✉️ info@ralfiz.com

📍 KIMS AVENUE PATTAMBI ROAD, PERINTHALMANNA

MULTI PLATFORM MOBILE APPLICATION DEVELOPMENT USING FLUTTER

COURSE SUMMARY

Developing for mobile platforms can be frustrating, and Flutter is Google's solution to make mobile development better. This course will teach you all aspects of Flutter, including building a UI, creating a database app ,API Handling, Statemeanagement and more.

In this course, you'll learn how to build apps with Flutter, the new mobile platform backed by Google. First, you'll explore how to build a Hello World app with Flutter. Next, you'll build a user interface and add interactivity. Finally, you'll discover how to create a complete database app.

When you're finished with this course, you'll have a foundational knowledge of Flutter that will help you as you move forward to build great and successful mobile apps for Android and IOS with Flutter.

MULTI PLATFORM MOBILE APPLICATION DEVELOPMENT USING FLUTTER

LAP 1
MILESTONE 1 AND 2

MILESTONE 1 — 3 hrs

Introduction to Mobile App Development

- What is Mobile Application Development
- Different Mobile App Platforms
- Types of Mobile Apps
- Mobile App Development Life Cycle

Introduction to Flutter- The What's and The Why's?

- What is Flutter?
- Why using Flutter is a good choice

MILESTONE 2

10 hrs

Introduction to Dart

- Dart Programming
- Writing the first Dart Program
- Data types
- Variables
- Conditional statements
- Selection Statements and Loops
- Arrays
- Function
- OOP Concepts
- Lists and Maps
- Threading
- Isolates

Task/Assignments

CHECK THE DRIVE -
COMPLETE ALL THE ASSIGNMENTS
UPLOAD SCREENSHOT OF OUTPUT
AND CODE

UpSkill Workouts

REFER THE LAP 1 DRIVE FOLDER

LAP 2
MILESTONE 3,4,5

MILESTONE 3

5 hrs

Introduction to Flutter

- Setting up the environment
- Downloading/Cloning the Flutter SDK.
- Installing and Configuring android studio
- Installing Flutter Plugin within VS Code.
- Understanding the structure of a Flutter Project.
- Importance of pubspec.yaml file
- Building a simple app from scratch
- Running app on AVD or Real Device

Task/Assignments

TASK 3

CREATE AN APP AND RUN

MILESTONE 4

Introducing Widget

- Widgets and their role in a Flutter app.
- Stateless and Stateful widgets
- Build Method and context
- The Material App and Scaffold widget.
- Safe Area
- AppBar.
- Floating ActionButton.
- More widgets - Text, Center and Padding.
- Hot Reload and Hot Restart, the tricks of the trade.
- Recreating the Default Flutter App (UI Only).

Task/Assignments

TASK 4

CREATE AN APP WITH APP BAR

TASK 5

CREATE AN APP WITH FAB

MILESTONE 5

20 hrs

Common Widget in Flutter
- Containers and their role.
- Importing images from a network.
- Importing images as assets.
- Adding icons to widgets.
- Understanding Row and Column.
- ListView and ListTile.
- Building views using ListView.builder.
- Inkwell and its importance.
- Gesture Detector
- Card
- GridView.
- Stack
- SizedBox
- Expanded
- FittedBox
- Dialogues(Alert, SnackBar)

Task/Assignments

TASK 6

CREATE A BUSINESS CARD APP

TASK 7

CREATE A STUDENT LIST APP

LAP 3
MILESTONE 6,7

MILESTONE 6 3 hrs

Introduction to GIT

- Working with git
- Collaborative Project Management

Task/Assignments

TASK 8

CREATE A PROJECT AND PUSH TO GIT REPO

MILESTONE 7 5 hrs

Using 3rd Party Packages

- Introducing Pubdev
- Installing and Importing Packages
- Working with asset images
- Adding custom fonts
- Adding Lottie in Flutter App

Task/Assignments

TASK 9

CREATE AN APP WITH LOTTIE ANIMATION

TASK 10

CREATE AN APP WITH ASSETS IMAGES AND CUSTOM FONTS

LAP 4
MILESTONE 8,9

MILESTONE 8

5 hrs

Navigating through Screens

- Navigator Class and different types of routes.
- Passing data between pages

Task/Assignments

TASK 11

CREATE AN APP WITH TWO SCREENS AND APPLY ROUTING

TASK 12

UPDATE STUDENT LIST APP

MILESTONE 9

4 hrs

Drawer and Bottom Navigation

- Drawer and BottomNavigation

Task/Assignments

TASK 13

CREATE AN APP WITH BOTTOM NAVIGATION BAR AND DRAWER

LAP 5
MILESTONE 10,11,12

MILESTONE 10 4 hrs

Building Responsive Apps

- Building responsive UI
- Layout Builder
- Adaptive Navigation
- Navigation Rail

Task/Assignments

TASK 14

CREATE A RESPONSIVE APP

TASK 15

CREATE A RESPONSIVE APP
WITH ADAPTIVE
NAVIGATION

MILESTONE 11 5 hrs

Building reusable widgets

- Writing custom classes
- Applying custom themes
- Darkmode and Light Mode

Task/Assignments

TASK 16

CREATE AN APP WITH DARK
AND LIGHT MODE AND
HAVING CUSTOM THEME
AND UTILITY CLASSES

RT
ROLFIZ TECHNOLOGIES

Handling User Input.

- Using TextField.
- Handling changes to a TextField.
- DropDown
- Calendar
- File Picker
- CheckBox
- RadioButton
- Form widget
- Validation

Task/Assignments

TASK 17

CREATE STUDENT REGISTRATION AND LOGIN SCREEN , UPDATE THE LIST

UI CHALLENGE PROJECT 1

APPLY THE SKILLS YOU HAVE ACQUIRED TO COMPLETE THE DESIGN GIVEN

Reviews and feedbacks

Machine Test

Mock-Inerview

Update your CV

LAP 6

MILESTONE 13,14,15,16

DATABSE CONNECTIVITY CONNECT FLUTTER APP TO LOCAL DATABASE

MILESTONE 13

5 hrs

Introduction to JSON

- What is JSON
- Uses
- Syntax
- Objects
- Arrays

MILESTONE 14

5 hrs

Introduction to SQLite

- Installing packages
- Creating model class
- Creating database helper class
- CRUD Operation

Task/Assignments

TASK 18

BUILD CAR APP, CREATE, READ, UPDATE AND DELETE CAR DETAILS

RT
ROLFIZ TECHNOLOGIES

MILESTONE 15

5 hrs

Introduction to Hive

- What is Hive Database in a flutter
- When to use the hive database in the flutter app?
- Installing Hive in the flutter project
- How to Implement Hive Database in the flutter app
- Initialization Hive Database
- Open Hive Box – A Data Box in HIVE
- How to Store data in a hive box
- Reading Data from Hive Database
- Delete data from Hive DB
- Real all the data from HIVE Box

Task/Assignments

TASK 19

BUILD FRUIT APP,

CREATE, READ, UPDATE

AND DELETE FRUIT

DETAILS

MILESTONE 16

10 hrs

Introduction to Firebase

- Firebase Introduction
- Configuration
- Authentication
- Cloud Firestore
- CRUD Operation
- Cloud Storage

Task/Assignments

TASK 20

BUILD FRUIT APP, CREATE,

READ, UPDATE AND

DELETE FRUIT DETAILS

PROJECT 2 , 3,4

APPLY THE DATABASE SKILLS YOU HAVE ACQUIRED TO COMPLETE THE PREVIOUS PROJECT AND UPLOAD IT ON GIT

RT
RALFIZ TECHNOLOGIES

LAP 7
MILESTONE 17,18

WORKING WITH API IN FLUTTER

MILESTONE 17

10 hrs

Introduction to API

- What is API
- Types of API Architectures
- Sample API

MILESTONE 18

15 hrs

API handling in Flutter

- Get the API URL and endpoints.
- Add relevant packages to the app (http, dio, etc.).
- Create a constant file that stores URLs and endpoints.
- Create a model class to parse the JSON.
- Create a file that handles the API call, and write specific methods to fetch and parse data.
- Use the data in your app.

Task/Assignments

TASK 21
BUILD PIZZA APP,
CREATE, READ, UPDATE
AND DELETE ORDER
USING API

LAP 8
MILESTONE 19,20,21,22,23
SHARED PRFERENCES & STATE MANAGEMENT IN FLUTTER

MILESTONE 19 | 5 hrs

Introduction to Shared preferences

- Installing dependencies
- Setting shared preference
- Getting value

Task/Assignments

TASK 22

BUILD THE COUNTER APP

AND MANAGE STATE

USING SHARED

PREFERENCES

MILESTONE 20 | 10 hrs

Maintaining state using Getx

- Installing dependencies
- Managing State with GetX

Task/Assignments

TASK 23

BUILD THE COUNTER APP

AND MANAGE STATE

USING GETX

MILESTONE 21

Maintaining state using Cubit

- Installing dependencies
- Types
- Working with cubit

Task/Assignments

TASK 24

BUILD THE COUNTER

APP

AND MANAGE STATE

USING CUBIT

MILESTONE 22

15 hrs

Maintaining state using BloC

- Installing dependencies
- Important BLoC concepts
- Working with cubit

Task/Assignments

TASK 25

BUILD THE COUNTER

APP

AND MANAGE STATE

USING BLOC

MILESTONE 23

5 hrs

- Playstore Configuration
- Key Generation
- APK and AppBundle

- Appstore Configuration
- Key Generation

RALFIZ TECHNOLOGIES

BONUSES 1
5hrs

Integrating Google Map

- Installing dependencies
- Fetching live location
- Markers

BONUSES 2
5 hrs

Integrating Payment in Flutter

- Installing dependencies

BONUSES 3
5 hrs

Integrating Printing in flutter

BONUSES 4
5 hrs

Prototyping using Figma and Xd

BONUSES 5   5hrs

Animations in widget

- AnimatedContainer
- AnimatedBuilder
- Hero etc

BONUSES 6   5 hrs

Layout widgets

- CustomScrollView
- Sliver widgets

BONUSES 7   5 hrs

Mixins in Dart

BONUSES 8   5 hrs

Push notifications

FINAL PROJECT WORK & INTERVIEW PREPARATION

IDEA MAKING

- Make an idea
- Design the app
- Code it
- Test it
- Deploy it

GET THE CERTIFICATE & READY TO FLY HIGH