



Flutter

1. Dart

- > Introduction
- > Variables
- > Operators
- > Expressions
- > Conditional Statements
- > Looping
- > Function
- > Data Structure
 - > List
 - > Set
 - > Map
 - > Iterables
- > OOPs Concepts
 - > Classes
 - > Constructor
 - > Callable Classes
 - > Exception Handling
- > Metadata
- > Async Programming
- > Libraries [String, Http Classes, Uri Class, DateTime Class]

2. DBMS/MySQL

- > Introduction
- > DDL
- > DML
- > DQL
- > Keys
- > joins
- > Nested queries
- > Procedure & Functions



3. Flutter

- > Introduction to Flutter – The what's and why's
- > Dart's Importance in Flutter
- > Installing Flutter plugin within VS code
- > Downloading / cloning Flutter SDK
- > Setting up Flutter
- > Structure of Flutter project
- > A simple app from scratch
- > Widget
 - > Introduction
 - > Widgets and their role in Flutter app.
 - > The MaterialApp and Scaffold widget.
 - > AppBar
 - > FloatingActionButton.
 - > More widgets : Text, Center & Padding
- > Adding icons to widgets
- > Hot Reload and Hot Restart, the tricks of the trade
- > Default Flutter App (UI only)
- > Containers and their Role.
- > Importing images from Network
- > Importing images from assets
- > Understanding rows and column
- > ListView and ListTile.
 - > Building views using ListView.Builder.
- > InkWell and its importance.
- > Stateless and Statefull widgets – The concept
- > Stateless vs Statefull widgets.
 - > Defining a 'State'
 - > The setState() method
- > Returning the default Flutter App
- > Navigating through Navigation
 - > Navigator and routes
 - > Applying push() using MaterialPageRoute.



- > Applying pop()
- > Declaring parameter-less routes (pushNamed()) in MaterialApp widget.
- > Handling User Input
 - > Using TextField.
 - > Handling Changes in a TextField
 - > Pass retrieved values using Navigator
- > User Interface
 - > Applying ThemeData
 - > The basic screen layout
 - > Applying custom font
- > Asynchronous Functions
 - > The 'Future' Function
 - > 'async' and 'await'
- > Working with Remote Data
 - > The 'http' package
 - > Model class and JSON parsing
 - > Displaying Remote Data (News API)
- > Firebase
 - > Firebase Login Signup
 - > Firebase Notification
 - > Firebase Authentication OTP
 - > Real Time Database
- > SQLite
- > Payment Integration
- > Upload Application on Play Store

4. GitHub

- > Create New Repository
- > Commit Code
- > Push Code
- > Pull Code
- > Collaborators

5. Postman

- > Collection
- > Environment
- > Add Request
- > POST GET Method