

Introduction to Flutter

Course Material: Introduction to Flutter

What is Flutter?

Flutter is an open-source UI toolkit developed by Google for creating beautiful, natively compiled applications for mobile, web, and desktop from a single codebase. It enables developers to craft expressive and flexible UIs using a rich set of pre-designed widgets.

Key Features of Flutter:

- Fast Development: Flutter uses a hot-reload feature that speeds up the development process by enabling real-time preview of changes.
- Expressive and Flexible UI: With pre-built widgets, you can design stunning interfaces that adapt to multiple devices and platforms.
- Single Codebase: Write your code once and deploy it across Android, iOS, web, and desktop platforms.

What is Dart?

Dart is a programming language created by Google, optimized for building fast applications. It is the primary language used in Flutter development and comes with a rich set of tools for modern development.

Key Dart features include:

- Sound Null Safety: Helps developers avoid null pointer errors by distinguishing nullable and non-nullable types.
- Efficient Compilation: Dart can be compiled to native machine code for fast performance or

optimized JavaScript for the web.

- Object-Oriented: Dart provides robust support for object-oriented programming principles.

Additional Resources:

- Official Flutter Documentation: <https://flutter.dev/docs>

- Dart Programming Language Guide: <https://dart.dev/guides>

This material provides the information needed to answer the quiz questions in your assignment.

Use it as a reference when preparing for the quiz or for further study.