

Flutter Workshop

(Kathmandu BernHardt College)

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About Me

■ Ranjit Shrestha

- Team Lead at OAN Solutions
- 4+ years of experience in Flutter/Web Development
- Freelance Developer
- Flutter Instructor

■ Social Media (@rgtstha)

- Facebook | Twitter | LinkedIn
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■ Website

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What we will learn?

■ Learning Dart Programming

- Variables and Data Types
- Control Flow Statements
- Functions
- Object-Oriented Programming

■ Flutter Basics

- Creating Layouts using Flutter Widgets
- Navigate between Screens
- API Integration



What is Dart?

- a programming language similar to Java and C#,
- open-source and developed by Google
- object-oriented
- used to write Flutter applications
- Example:

```
void main() {  
    print("Hello, World!");  
}
```



What is Flutter?

- a Framework
- open-source
- developed by Google
- used to create applications for Android, iOS, Web, Windows, Mac, and Linux with a single codebase
- uses Dart programming language
- Example:



```
import 'package:flutter/material.dart';
void main() {
    runApp(MyApp());
}
```

Why to learn Flutter?

There are several reasons to learn Flutter, including:

- Cross-Platform Development
- Fast Development
- Rich UI
- Strong Community
- Performance
- Learning Dart is Easy
- Job Opportunities
- Open Source
- Learning Resources
- Community Support

Apps Built with Flutter

■ Nepali Apps



■ International Apps



Requirements

■ System Requirements

- Operating System: Windows, macOS, or Linux
- Disk Space: At least 10 GB of free disk space
- RAM: At least 4 GB of RAM

■ Software Requirements

- Android Studio
- Xcode (for macOS only)
- Git
- VS Code
- Flutter SDK

Check your Development Setup

■ Check if git installed

```
git --version
```

snippet +exec is disabled, run with -x to enable

■ Check if Flutter installed

```
flutter doctor
```

snippet +exec is disabled, run with -x to enable

Learning Resources

■ Official Documentation

- Flutter Documentation (<https://flutter.dev/docs>)
- Dart Documentation (<https://dart.dev/guides>)
- Flutter API Reference (<https://api.flutter.dev/>)

■ Youtube Channels

- Flutter (<https://www.youtube.com/@flutterdev>)
- HeyFlutter (<https://www.youtube.com/@HeyFlutter>)
- Flutter Explained (<https://www.youtube.com/@FlutterExplained>)
- Vandad (<https://www.youtube.com/@Vandadnp>)
- Flutter Community (<https://www.youtube.com/@FlutterCommunity>)
- Rivaan Ranawat (<https://www.youtube.com/@RivaanRanawat>)
- NetNinja (
<https://www.youtube.com/watch?v=1ukSR1GRtMU&list=PL4cUxeGkcC9jLYyp2Aoh6hcWuxFDX6PBJ>)
- Mitch Koko (<https://www.youtube.com/@MitchKoko>)
- Academind (<https://www.youtube.com/@Academind>)