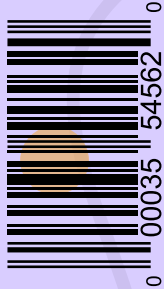


WORKSHOP OVERVIEW

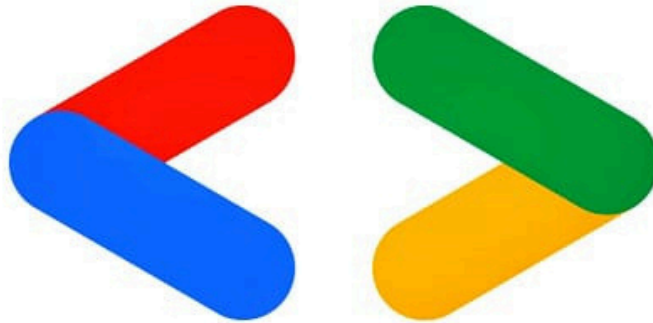


SYLLABUS

NO.1



**JANUARY
2025**



Google Developer Groups

**On Campus,
GLA University**

WEEK 1

**FLUTTER, LAYOUT, WIDGETS,
FORMS, SCROLLVIEW**

WEEK 2

**NAVIGATION, THEMING,
FIREBASE, FIRESTORE**

WEEK 3

**DART, API, STATE
MANAGEMENT, PROJECT**

FOLLOW US



@gdgglau



Google Developer Groups On Campus, GLA University

EVENT SCHEDULE

JANUARY 2025

WEEKLY SCHEDULE 1



DAY 1

Introduction to Flutter

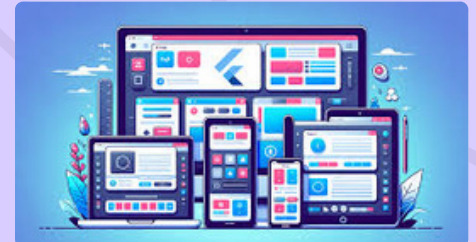
- Flutter Overview
- Dart Programming Basics
- Environmental Setup & Troubleshooting
- Interactive Q & A



DAY 2

Flutter Basics: Setup, Architecture, and Widgets

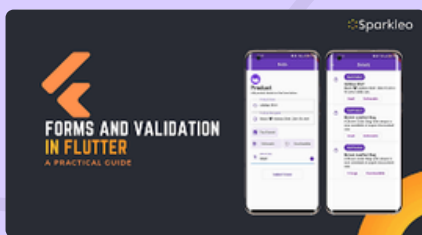
- Development Environment Setup
- Understanding Flutter Architecture
- Basic Widgets



DAY 3

Flutter Layouts and UI Essentials

- Flexible Layouts with Widgets
- UI Elements and Styling
- Practical Design and Techniques



DAY 4

Form Controls and User Feedback Elements

- Form Components: Validation, Radio, Checkboxes
 - User Feedback: Dialogs, Modals, Bottom Sheets
 - Notifications: Snackbars, Banners, Toasts
- Interactive Design: Forms and Feedback



DAY 5

Layout Optimization and UI Q&A

- Optimizing Layouts Efficiently: Expanded, Flex, Wrap, ScrollView
- UI Styling Essentials: Buttons, Colors, Padding
- Interactive Q&A Session



Google Developer Groups On Campus, GLA University

EVENT SCHEDULE

JANUARY 2025

WEEKLY SCHEDULE 2



DAY 1

Navigation & State Management

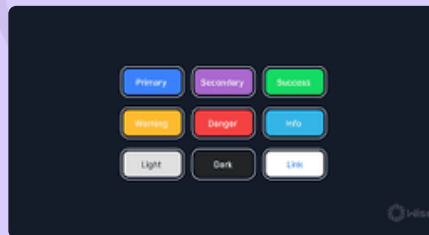
- Navigation Concepts
- Understanding Constraints
- Data Passing Between Screens



DAY 3

Firestore Basics

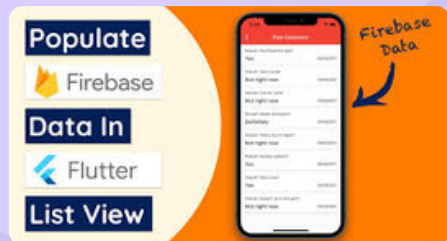
- Firebase Introduction
- Platform Overview
- Project Setup
- Authentication Implementation



DAY 2

Theming & Buttons

- Theme Implementation
- Widget State Properties
- Custom Button Styling
 1. Elevated Button, Text Button
 2. Filled Button, Ink Effects
 3. InkWell Widget, Material Button



DAY 4

Firestore & Lists

- Firestore Basics
- Database Operations
- User Portal Development
 1. Profile Management
 2. Search Functionality
 3. List Implementations (ListView, GridView)
 4. Custom Builders, List Separators



DAY 5

Asynchronous Programming Q&A Session

- Future Object
- Stream Basics
- Address Doubts
- Project Review

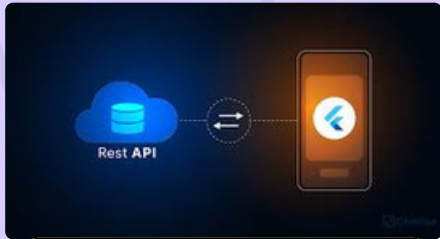


Google Developer Groups On Campus, GLA University

EVENT SCHEDULE

JANUARY 2025

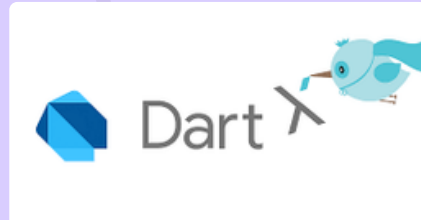
WEEKLY SCHEDULE 3



DAY 1

API Integration

- Asynchronous Dart
- HTTP Methods (GET, POST, PUT, DELETE)
- JSON Operations: Decoding/Encoding
- Data Class & Model Creation



DAY 2

Dart Collections

- Advanced List Operations
- Map Implementation
- Practical Examples



DAY 3-4

State Management with Provider

- Provider Pattern Basics
- MultiProvider Implementation
- ChangeNotifier and Watch/Read Methods
- Consumer Implementation & Builder
- Advanced Provider Patterns



DAY 5

Project Completion

- Final Q&A Session
- Project Review & Bonus Content
- Course Materials Provided
- Code Samples, Practice Exercises
- Real-world Project Implementation



MEGA HACKATHON

Following the workshop, a thrilling 24-hour hackathon will be organized, where participants can showcase their skills and win exciting prizes!



March
2025