



D-402, Green Iris, Nr, H P
Petrol Pump,
K. K. Nagar Road, Ghatlodia,
Ahmedabad – 382481.
Gujarat, India
Phone: +91 99252 92157

Flutter Training / Internship Program

Curriculum

1. Introduction

Objective: Equip participants with the necessary skills to build cross-platform mobile applications using Flutter.

Duration: Training + Internship (flexible timeline).

Mode: Online/Offline as per requirement.

Outcome: Participants will be job-ready Flutter developers with hands-on project experience.

2. Training Modules

Module 1: Fundamentals

- Introduction to Flutter & Dart
- Environment setup (SDK, IDE, Git)
- Dart basics (variables, data types, operators, functions, OOP, null safety)

Module 2: Flutter Basics

- Widget tree & architecture
- Stateless & Stateful widgets
- Core widgets (Container, Row, Column, Stack, ListView)
- Styling & Themes

Module 3: Navigation & State Management

- Navigation (push, pop, named routes)
- Forms & validation
- State management: setState, Provider intro



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Module 4: Networking & Storage

- REST APIs & HTTP requests
- JSON parsing
- FutureBuilder & StreamBuilder
- Local storage: SharedPreferences, Hive basics

Module 5: Advanced Flutter

- Animations (implicit & explicit)
- Custom widgets
- Responsive UI (MediaQuery, LayoutBuilder)
- Platform integration (camera, location, sensors)

Module 6: Firebase & Deployment

- Firebase setup (Auth, Firestore, Storage, Notifications)
- Crashlytics, Analytics
- Testing (Unit, Widget, Integration tests)
- App signing & Deployment (Play Store, App Store)

Capstone Project: A complete mobile app integrating multiple modules.

3. Internship Phase

- Objectives
- Activities (features, bug fixing, testing, team workflow)
- Deliverables (final project, GitHub repo, presentation/demo)

4. Assessments & Evaluation

- Assignments & mini-projects after modules
- Capstone project (training phase)
- Internship project (real-world app)
- Final evaluation (technical, problem solving, teamwork)



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5. Resources

- Flutter official docs
- Dart language tour
- Firebase docs
- Recommended YouTube/Books