# 📌 Flutter Social Media App Dev Cheatsheet (For 1-Month Build)

## 🔰 1. Project Setup

• Create Project: `flutter create my\_app`

• Add dependencies: Edit `pubspec.yaml`

• Run on device: `flutter run`

• Hot reload: `r` (in terminal), or `Ctrl+S`

• VS Code Flutter plugin: ✅ Install for Flutter support

## 🧱 2. Core Widgets & Layouts

• Scaffold: Page layout (AppBar, body, FAB)

• AppBar: Top title/navigation

• ListView: Scrollable feed

• Card: Post container

• Column, Row: Layout structure

• Text, Image, Icon: Content

• Container, Padding, SizedBox: Spacing/styling

• Use ListView.builder: To dynamically build posts

## 🎨 3. Styling and Themes

• Global theme: `MaterialApp(theme: ThemeData(...))`

• Fonts: Google Fonts via `google\_fonts` package

• Colors: `Colors.blue[800]`, `Color(0xFF...)`

• Dark Mode: `themeMode: ThemeMode.dark` etc.

## 🔁 4. State Management (Easy + Clean)

• Track likes, toggles: `setState(() => liked = !liked)`

• For later: Provider, Riverpod: Add once you’re comfortable

## 🧭 5. Navigation & Pages

• Move to new page: `Navigator.push(context, MaterialPageRoute(...))`

• Bottom nav bar: `BottomNavigationBar`

• Back to home: `Navigator.pop(context)`

## 📸 6. Image Handling

• Load from network: `Image.network()`

• Pick from gallery/camera: `image\_picker` package

• Upload to cloud: Use Firebase Storage or Supabase later

## 🔐 7. Authentication (Week 3)

• Login with email/password: `firebase\_auth`

• Google Sign-In: `google\_sign\_in`

• Anonymous auth (testing): ✅ optional

## 🗄️ 8. Backend/Storage Options

• Firebase: Auth + DB + Storage

• Supabase: Postgres + Auth

• Local mock data: Early dev only

## 🧠 9. Dev Tips

• Hot restart: `Shift+R` (terminal)

• Clear terminal log: `Ctrl+L`

• Test UI fast: Use dummy data first

• Image testing: Use https://picsum.photos

• Mock profiles: https://pravatar.cc

## 📅 Suggested 1-Month Plan

• Week 1: UI: Feed, Post cards, NavBar

• Week 2: Image uploads, like/comment UI

• Week 3: Auth + Profile page + Post screen

• Week 4: Polish UI, Test, Deploy (APK or web)

## 🔧 Packages to Add (Gradually)

• google\_fonts: ^6.1.0

• image\_picker: ^1.0.4

• firebase\_core: ^2.25.0

• firebase\_auth: ^4.10.0

• cloud\_firestore: ^4.12.0

• flutter\_svg: ^2.0.9