

# Structure for LMS App

```
lms_app
├── android
├── ios
├── lib
│   ├── core
│   │   ├── constants.dart
│   │   ├── app_theme.dart
│   │   ├── routes.dart
│   │   └── utils.dart
│   ├── data
│   │   ├── models
│   │   │   ├── user_model.dart
│   │   │   ├── course_model.dart
│   │   │   └── lesson_model.dart
│   │   └── services
│   │       ├── api_service.dart
│   │       ├── auth_service.dart
│   │       └── database_service.dart
│   ├── logic
│   │   ├── cubits
│   │   │   ├── auth_cubit.dart
│   │   │   └── course_cubit.dart
│   └── presentation
│       ├── screens
│       │   ├── login_screen.dart
│       │   ├── signup_screen.dart
│       │   ├── home_screen.dart
│       │   └── course_screen.dart
│       └── widgets
│           ├── custom_button.dart
│           ├── course_card.dart
│           └── lesson_tile.dart
├── main.dart
├── assets
│   ├── images
│   └── icons
├── test
└── pubspec.yaml
```

## Explanation of Folder Structure

### 1 Core (lib/core/)

Contains **app-wide utilities and constants**, such as:

- `constants.dart` → Global constants (colors, text styles)
- `app_theme.dart` → Theme configurations

- `routes.dart` → App navigation routes
- `utils.dart` → Common helper functions

## 2 Data (**lib/data/**)

Manages **data and API handling**:

- `models/` → **Data models** (e.g., `UserModel`, `CourseModel`)
- `services/` → **APIs, Firebase, and database logic** (`auth_service.dart`, `database_service.dart`)

## 3 Logic (**lib/logic/**)

Handles **state management**:

- `cubits/` → **Cubit classes for state management** (e.g., `AuthCubit`, `CourseCubit`)

## 4 Presentation (**lib/presentation/**)

Handles **UI (screens & widgets)**:

- `screens/` → All the **screens/pages** (e.g., `login_screen.dart`, `home_screen.dart`)
- `widgets/` → **Reusable UI components** (e.g., `custom_button.dart`, `course_card.dart`)

## 5 Assets (**assets/**)

Contains **images, icons, and fonts** used in the app.