

Flutter Project Documentation

Project Overview

This Flutter project is structured using the following directories and files:

1. lib/main.dart

- Entry point of the Flutter application.

2. lib/injection.dart

- Manages dependency injection.

3. lib/core/

- Contains core functionalities and utilities.
- constant/: Defines app-wide constants.
 - app_constant.dart
 - app_sizes.dart
 - app_text_style.dart
- resources/: Manages application state resources.
 - data_state.dart
- util/: Utility functions.
 - appUtil.dart
- usecase/: Base use case class.
 - usecase.dart

4. lib/config/

- Contains configuration files.
- theme/: Defines application themes.
 - light_theme.dart
- routes/: Manages application routes.
 - app_route.dart

5. lib/data/

Flutter Project Documentation

- Manages data sources, repositories, models, and APIs.

- api/: API providers and requests.

 - api_provider.dart

 - news_requests.dart

- datasource/remote/: Remote data sources.

 - news_datasource.dart

- exeptions/: API exceptions.

 - api_exeption.dart

- model/: Data models.

 - news_model.dart

- repository/: Repositories for data handling.

 - news_repository.dart

 - storeToHive.dart

6. lib/domain/

- Contains domain logic, entities, and use cases.

- entity/: Entity models.

 - news_model_entity.dart

 - news_model_entity.g.dart

- repository/: Repository interfaces.

 - Inews_repository.dart

- use_case/: Use cases for domain logic.

 - get_news_use_case.dart

 - get_save_data_user_case.dart

 - save_news_use_case.dart

7. lib/presentation/

Flutter Project Documentation

- Manages UI components, pages, and state management.
- bloc/: Business Logic Components for state management.
 - news_bloc/
 - news_bloc.dart
 - news_event.dart
 - news_state.dart
- pages/: UI pages.
 - news_screen.dart
 - single_news_screen.dart
- widgets/: Custom UI widgets.
 - news_widget.dart
 - pop_up_menu.dart

Setting Up the Project

1. Dependencies: Ensure all necessary dependencies are listed in pubspec.yaml.
2. Environment Configuration: Configure the environment for the project by setting up the necessary APIs and keys.
3. Run the Project: Use the following command to run the Flutter project:

```
flutter run
```

Key Components

- main.dart: Initializes the app and sets up the main widget tree.
- injection.dart: Configures dependency injection using a service locator.
- API Integration: Handled by files in lib/data/api/.
- State Management: Implemented using Bloc pattern in lib/presentation/bloc/.

Flutter Project Documentation

- UI Components: Defined in lib/presentation/pages/ and lib/presentation/widgets/.

Usage

- Home Screen: Displayed using news_screen.dart.
- News Details: Managed by single_news_screen.dart.
- State Management: Events and states are defined in news_bloc/.

Development Practices

- Code Organization: Follow the directory structure for modularity.
- State Management: Use Bloc for managing states and business logic.
- Dependency Injection: Utilize the injection.dart for injecting dependencies.