

Chapter 5: Dialogs

Standard Dialogs

Use the `DialogService` for standard dialogs.

```
```dart

// locator.dart

import 'package:stacked_services/stacked_services.dart';

final locator = GetIt.instance;

void setupLocator() {
 locator.registerLazySingleton(() => DialogService());
}

...

```dart

// home_viewmodel.dart

import 'package:stacked_services/stacked_services.dart';

import 'locator.dart';

class HomeViewModel extends BaseViewModel {

  final DialogService _dialogService = locator<DialogService>();

  void showDialog() {
```

Mastering Stacked in Flutter: From Beginner to Expert

```
_dialogService.showDialog(  
  title: 'Dialog Title',  
  description: 'This is the dialog description',  
);  
  
}  
  
}  
  
...
```

Custom Dialogs

You can create custom dialogs by extending `CustomDialogBuilder`.

```
``dart  
  
// custom_dialog.dart  
  
import 'package:flutter/material.dart';  
  
import 'package:stacked_services/stacked_services.dart';  
  
class CustomDialog extends StatelessWidget {  
  final DialogRequest request;  
  final Function(DialogResponse) completer;  
  
  CustomDialog({required this.request, required this.completer});  
  
  @override  
  Widget build(BuildContext context) {  
    return AlertDialog(  

```

Mastering Stacked in Flutter: From Beginner to Expert

```
title: Text(request.title!),
```

```
content: Text(request.description!),
```

```
actions: <Widget>[
```

```
  TextButton(
```

```
    onPressed: () => completer(DialogResponse(confirmed: true)),
```

```
    child: Text('Confirm'),
```

```
  ),
```

```
  TextButton(
```

```
    onPressed: () => completer(DialogResponse(confirmed: false)),
```

```
    child: Text('Cancel'),
```

```
  ),
```

```
],
```

```
);
```

```
}
```

```
}
```

```
...
```

```
```dart
```

```
// locator.dart
```

```
import 'package:stacked_services/stacked_services.dart';
```

```
import 'custom_dialog.dart';
```

```
final locator = GetIt.instance;
```

```
void setupLocator() {
```

## Mastering Stacked in Flutter: From Beginner to Expert

```
locator.registerLazySingleton(() => DialogService());

locator<DialogService>().registerCustomDialogBuilders({

 'custom': (context, dialogRequest, completer) =>

 CustomDialog(request: dialogRequest, completer: completer),

});

}

...
```

# Mastering Stacked in Flutter: From Beginner to Expert

## Chapter 6: Stacked CLI

### ### Installation and Setup

Install the Stacked CLI globally using pub:

```
```sh
```

```
dart pub global activate stacked_cli
```

```
```
```

Ensure the installation path is added to your system's PATH environment variable.

### ### Generating Files

Generate a new view with the CLI:

```
```sh
```

```
stacked create view home
```

```
```
```

### ### CLI Commands Overview

- `create view [name]`: Creates a new view and its corresponding ViewModel.
- `create service [name]`: Generates a new service.
- `create dialog [name]`: Creates a new custom dialog.

# Mastering Stacked in Flutter: From Beginner to Expert

## Chapter 7: Building Real-world Applications

### ### Notes App

#### #### Requirements

- Create, read, update, and delete notes
- Use local storage for persistence
- Implement state management with Stacked

#### #### Implementation

- Set up the project structure with `stacked create view home`.
- Create services for handling data operations.
- Use `ViewModelBuilder` for UI and ViewModel interaction.

#### #### Example Code

```
```dart
```

```
// note_service.dart
```

```
import 'package:stacked/stacked.dart';
```

```
class NoteService with ReactiveServiceMixin {
```

```
  // Implementation of CRUD operations
```

```
}
```

```
```
```

### ### To-Do App

#### #### Requirements

## Mastering Stacked in Flutter: From Beginner to Expert

- Create, read, update, and delete tasks
- Implement task completion functionality
- Use an API for backend operations

### #### Implementation

- Set up views and viewmodels with the Stacked CLI.
- Implement API services for data fetching.
- Use reactive services for state management.

### #### Example Code

```
```dart
```

```
// task_service.dart
```

```
import 'package:stacked/stacked.dart';
```

```
class TaskService with ReactiveServiceMixin {
```

```
  // Implementation of CRUD operations
```

```
}
```

```
```
```

## Chapter 8: Advanced Topics

### ### API Services

Implementing API services involves creating a service class and using HTTP packages like `http` or `dio`.

#### #### Example Code

```
```dart
// api_service.dart

import 'package:dio/dio.dart';

class ApiService {
  final Dio _dio = Dio();

  Future<Response> getData(String endpoint) {
    return _dio.get(endpoint);
  }
}
```
```

### ### Dependency Injection

Use `get\_it` for dependency injection to manage service instances.

#### #### Example Code

```
```dart
```


Mastering Stacked in Flutter: From Beginner to Expert

```
// locator.dart

import 'package:get_it/get_it.dart';

final locator = GetIt.instance;

void setupLocator() {
  locator.registerLazySingleton(() => ApiService());
}
...
```

State Management

Use reactive services and `ViewModelBuilder` to manage and react to state changes.

Example Code

```
```dart

// home_viewmodel.dart

import 'package:stacked/stacked.dart';

class HomeViewModel extends BaseViewModel {
 // State management logic
}
...
```

### ### Testing

Write unit and widget tests to ensure the reliability of your application.

## Mastering Stacked in Flutter: From Beginner to Expert

#### Example Code

```
```dart
```

```
// home_viewmodel_test.dart
```

```
import 'package:flutter_test/flutter_test.dart';
```

```
import 'package:myapp/viewmodels/home_viewmodel.dart';
```

```
void main() {
```

```
  test('HomeViewModel test', () {
```

```
    var viewModel = HomeViewModel();
```

```
    expect(viewModel.someProperty, someValue);
```

```
  });
```

```
}
```

```
```
```

## Chapter 9: Best Practices

### ### Code Organization

- Follow a consistent directory structure.
- Separate UI, business logic, and services.

### ### State Management Strategies

- Use reactive services for global state.
- Use ViewModels for local state.

### ### Performance Optimization

- Avoid rebuilding widgets unnecessarily.
- Use efficient data structures and algorithms.

# Mastering Stacked in Flutter: From Beginner to Expert

## Chapter 10: Conclusion and Further Reading

### ### Recap

- Reviewed the core concepts of Stacked.
- Built real-world applications.
- Covered advanced topics and best practices.

### ### Resources for Continued Learning

- [Official Stacked Documentation](<https://pub.dev/packages/stacked>)
- [Flutter Documentation](<https://flutter.dev/docs>)
- [Stacked GitHub Repository](<https://github.com/FilledStacks/stacked>)