

Flutter Training



Architectural Patterns For Better State Management

Recap

Week #5 Recorded Session:

https://drive.google.com/file/d/1A3yNXSZcvqeZ-OUdygksWcDfrd8PkCE8/view?usp=sharing

Week #5 Presentation (Persistent storage and unit tests):

https://docs.google.com/presentation/d/1VCQoXjbcs1PiJ1-hDw41y9il8sLIU-WSZbI7UxnKeFs/edit?usp=sharing



Agenda

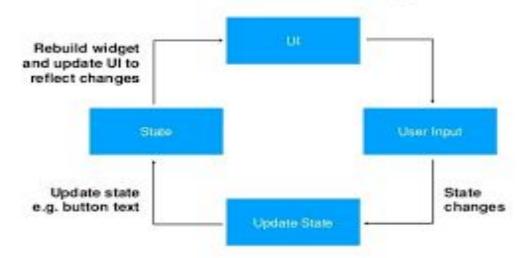
- State management In Flutter
- What are architectural patterns.
- Explore famous architectural patterns in flutter.
- Reactive Programming
- Some code walk through for better understanding of architecture pattern.



State Management

- Creating stateful widgets
- Maintaining states for each widget manually.
- Using simple setState()
- Is there a better way to manage it?

Stateful widget





Architectural Patterns

- Why we use architecture patterns?
- Its Advantages
- Does it make your app scalable ?
- Is it helpful when you work with a team developer?



Flutter Provider

- An implementation of observer pattern
- In which consumer waits of observable to emit changes using callbacks..



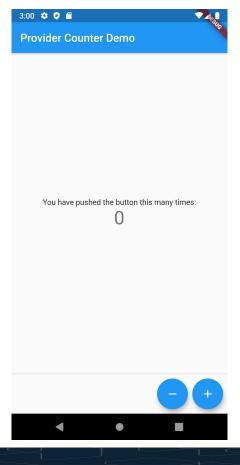


Main Concepts

- Notifier
- Provider
- Consumer



Code Walk Through For Provider In a simple Counter Application





What is reactive programming

- Streams
- Async*
- yield



Bloc

A reactive support architecture to update states based on streams





Main Concepts

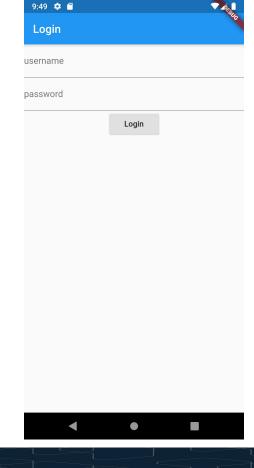
- Event
- States
- Bloc
- Bloc Builder
- Repository



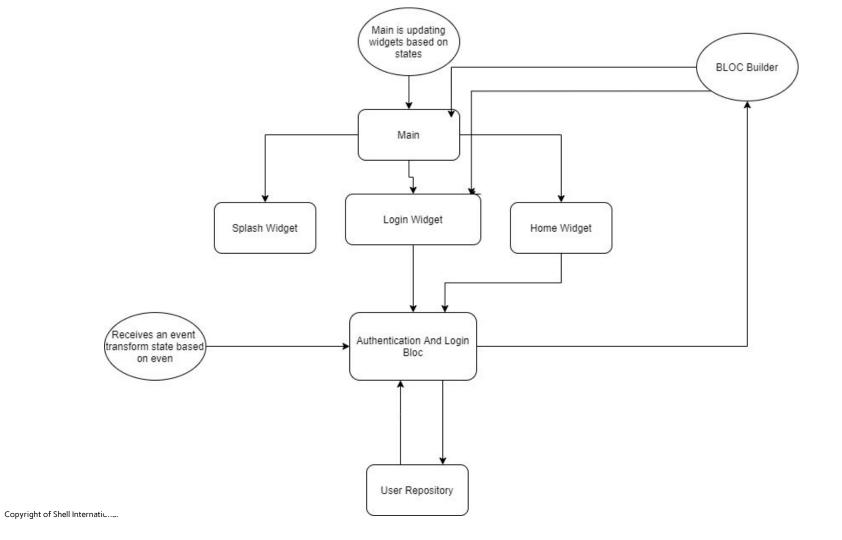
Code Walk

Through For Bloc

Creating Login Flow











Take home assignment Weather App Using Bloc Architecture

Assignment submission

Upload your code on github and submit it's link on the Google chat group.



References

- https://www.youtube.com/watch?v=nQBpOIHE4eE&list=PLjxrf2q8roU2HdJQDjJzOeO6J3FoFLWr2&index=17&t=0s
- https://pub.dev/packages/flutter_bloc
- https://pub.dev/packages/provider
- https://flutter.dev/docs/development/data-and-backend/state-mgmt/simple





End

