

# Android MVI Architecture #2

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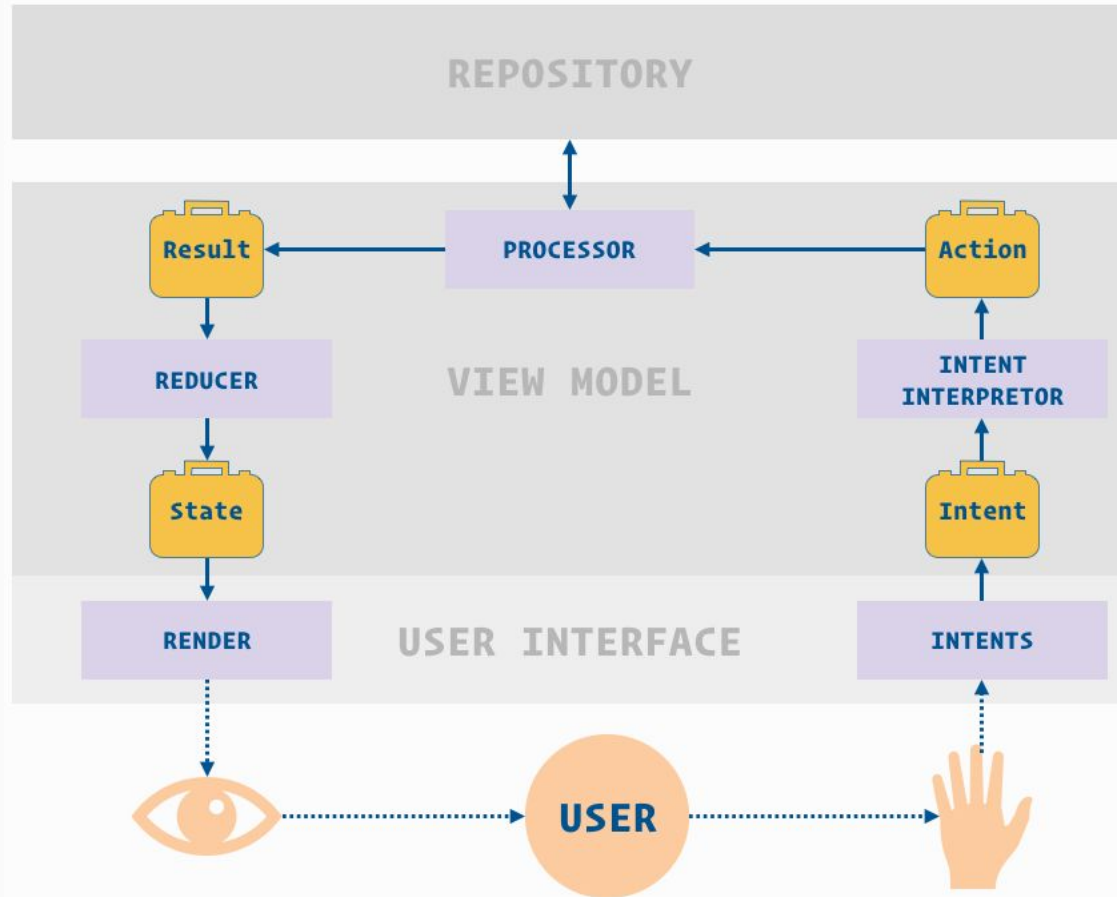
- [Session #1](#)
- In Session #2:
  - Deeply understand and implement MVI
  - Continue with demo application

- Embrace reactive and functional programming
- Has only one entry point to forward data between View and ViewModel
  - The View takes input from ViewModel and emit back **intents**
  - The ViewModel take input from the View and emit back by **view states**

```
public interface MviView {  
    Observable<MviIntent> intents();  
  
    void render(MviViewState state);  
}
```

```
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    Observable<MviIntent> intents();  
  
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}
```

# Implement MVI



# Reducer and ViewState

- Reducer

- Generate the ViewState
- Take the latest ViewState available, apply the latest result and return a whole new ViewState

```
private val reducer = BiFunction { previousState: TasksViewState, result: TasksResult ->
    when (result) {
        is LoadTasksResult -> {
            ^BiFunction previousState.copy(isLoading = true)
        }
        is CompleteTaskResult -> {
            ^BiFunction previousState.copy(taskComplete = false)
        }
    }
}
```

- ViewState

- Contains all the information the View needs to render itself

## Conclusion: when to use MVI?

- If you are fan of Functional Programing, Reactive Programing and Pure function
- User-centric: MVI puts the user right at the heart of discussions

# Thanks!

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