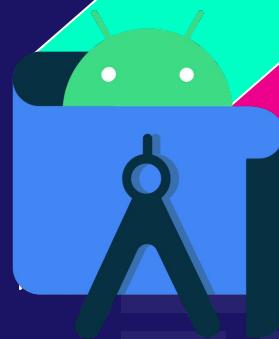


#???

Android Studio



Android Studio

" ViewModel Step By Step! "

UiState



UiState

```
1 package com.example.demo7.counter
2
3 data class CounterUiState(
4     var counterValue: Int = 0
5 ) {
6 }
7
```

UiState är likt en hook: useState inom React.

Tilldela variabler du vill ska kunnas manipuleras längre fram!

ViewModel



Extend

```
class CounterViewModel: ViewModel() {
```

Först och främst: extend ViewModel()

Du använder dig av extend med kolon :

Connect!

```
// Expose screen UI state  
private val _uiState = MutableStateFlow(CounterUiState())  
val uiState: StateFlow<CounterUiState> = _uiState.asStateFlow()
```

MutableStateFlow = Värdet kan förändras

Mutate Data

```
fun add() {  
    _uiState.update {  
        state -> state.copy(  
            counterValue = state.counterValue + 1  
        )  
    }  
}
```

Enkelt eksempel på manipulering av data



The background features a blurred image of a laptop screen displaying C code. The code includes headers like `<curl/curl.h>` and functions like `curl_easy_setopt` and `curl_easy_perform`. Several error messages are visible, such as "Failed to set URL [%s]\n", "Failed to set redirect option [%s]\n", and "Failed to set writer [%s]\n". A large blue rectangular overlay covers the right side of the image, and a smaller blue rectangle is in the top right corner.

Main



Instantiate

```
val viewModel: CounterViewModel by viewModels()
```

```
// Kotlin  
implementation("androidx.activity:activity-ktx:1.6.1")
```

By viewModels() existerar bara om du fixar dependency!

Update UI

```
lifecycleScope.launch { this: CoroutineScope
    repeatOnLifecycle(Lifecycle.State.STARTED) { this: CoroutineScope
        viewModel.uiState.collect() { it: CounterUiState

            // Update UI elements
            example.text = viewModel.uiState.value.counterValue.toString()
        }
    }
}
```

repeatOnLifecycle tillåter oss att hålla värdet uppdaterat genom livscyklar!

Coroutine är en 'async' variant av programmering

LÄGG ABSOLUT INTE DETTA I ONCLICK

Invoke Method

```
example.setOnClickListener { it: View!  
  
    viewModel.add()  
  
}
```

THANKS!

Do you have any questions?
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