



Modul 3 – Android App Entwicklung mit Kotlin

Wiederholung

Datum: 30,05,2022

Gliederung

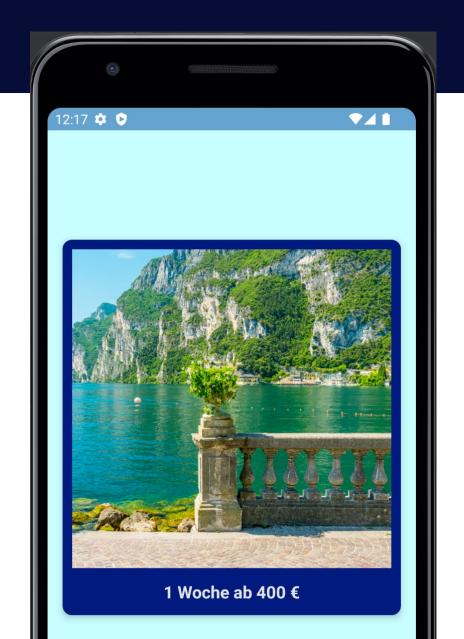
- Was haben haben wir bis jetzt gelernt?
- Was kommt noch?
- Offene Fragen
- Euer Feedback



 ${\it Quelle: https://innovationby design.pressbooks.com/chapter/ideate/}$

Activities und Intents

- Intents
- Unterschied implizit und explizit
- DetailActivity
- ShareIntent

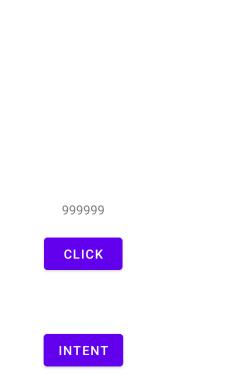


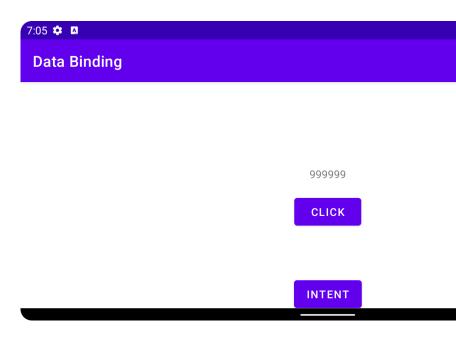
Activity Lifecycle

7:04 ♥ □

Data Binding

- Activity Lifecycle
- Zustände und Events
- SaveInstanceState





Fragmente

- Fragmente und Lifecycle
- Navigation Component



Navigation Tests

- Fragmente und Navigation Component
- Instrumented Tests
- Navigation Test

```
@RunWith(JUnit4::class)
class NavigationTest {
   lateinit var navController: TestNavHostController
   lateinit var offerListScenario: FragmentScenario<HomeFragment>
   @Before
   fun setup() {
       // Test Navcontroller wird bereitgestellt
       navController = TestNavHostController(ApplicationProvider.getApplicationContext())
       offerListScenario = launchFragmentInContainer<HomeFragment>(themeResId = R.style.Theme_RecyclerView)
       navController.setGraph(R.navigation.nav_graph)
           Navigation.setViewNavController(it.requireView(), navController)
   fun navigateToOffer() = runBlocking {  this: CoroutineScope
       onView(withId(R.id.recyclerViewHome))
           .perform(
               RecyclerViewActions
                   .actionOnItemAtPosition<RecyclerView.ViewHolder>( position: 10, click())
       // THEN - NavController navigiert zum DetailFragment
       assertEquals(navController.currentDestination?.id, R.id.detailFragment)
```

Architektur und ViewModel

3:57 🌣 🖪

QuizIt

Architekturprinzipien

MVVM

ViewModel

Fußballer oder Musiker?

5

Alessandro Del Piero

Gut gemacht!

Du hast 5 mal richtig geantwortet.

VERLASSEN VERSUCHS NOCHMAL

Live Data

- Live Data
- Einsatz in MVVM
- Data Binding im Layout

Antonio Vivaldi

Franco



VERLASSEN

Andrea Pirlo

Shared ViewModel

- Shared ViewModel
- Backstack und BackButton
- ViewModel Tests



Andrea

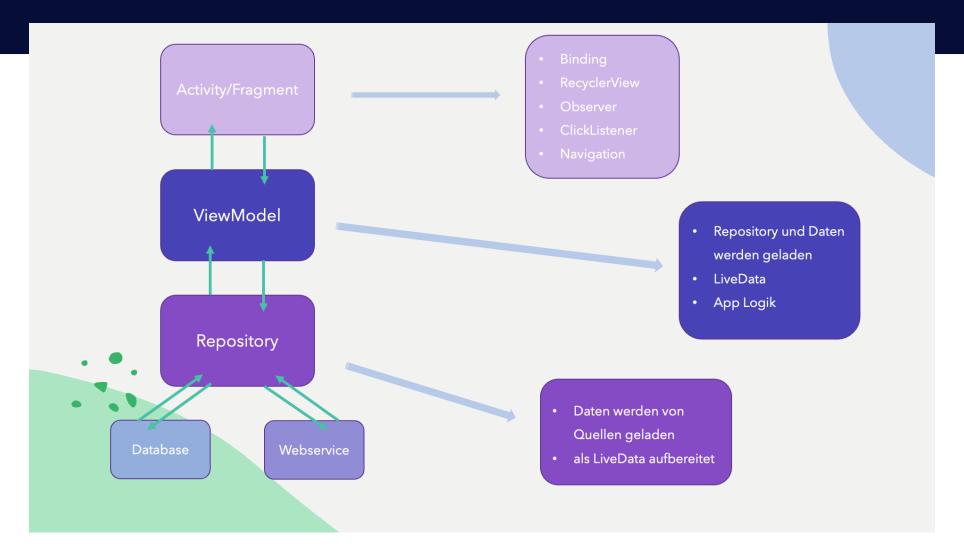
```
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)

val navHostFragment = supportFragmentManager
    .findFragmentById(R.id.nav_host_fragment) as NavHostFragment
    navController = navHostFragment.navController

setupActionBarWithNavController(navController)
}

override fun onSupportNavigateUp(): Boolean {
    return navController.navigateUp() || super.onSupportNavigateUp()
}
```

MVVM



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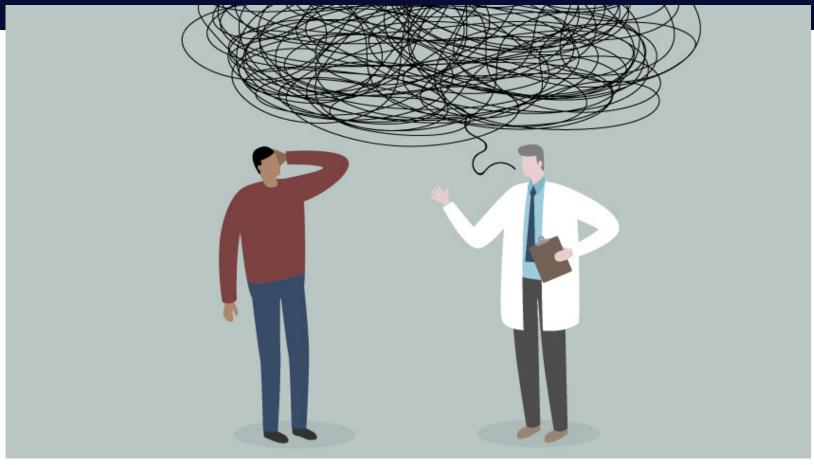
Was kommt noch?

- Coroutines
- Webservices und API Calls
- Caching Data



Quelle: https://schulschwestern.de/wp-content/uploads/2022/01/Bild1-1.jpg

Offene Fragen



Quelle: https://healthblog.uofmhealth.org/cancer-care/what-did-my-doctor-say-what-to-do-when-you-dont-understand

Feedback



Quelle: https://media.makeameme.org/created/accept-feedback.jpg









Quelle: https://www.rawpixel.com/search/fist%20bump?page=1&sort=curated