

cards against the liver



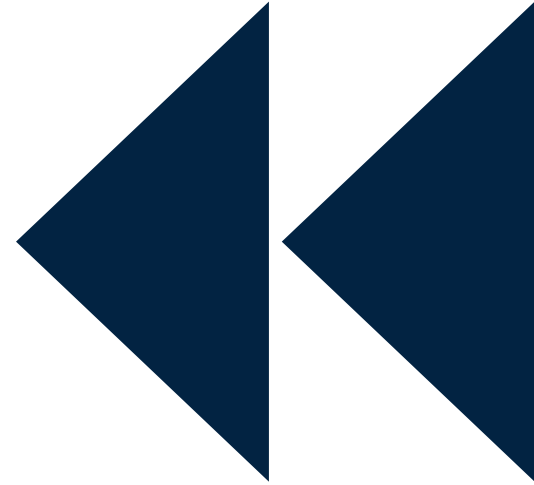
Projekt-Vorstellung Team C

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Rückblick



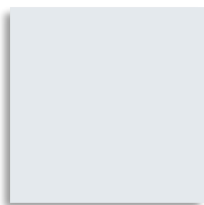
Projekt

- Kartenspiel App
 - Bettler
 - Schwimmen
 - Etc.
- Promillerechner

Material Design Farben



Hellgrau
#f9f9f9



Grau
#e4e9ed



Dunkeltürkis
#007d7c



Rot
#7d0000



Grün
#007d00



Dunkelblau
#003f7d



Türkis
#00a6ac



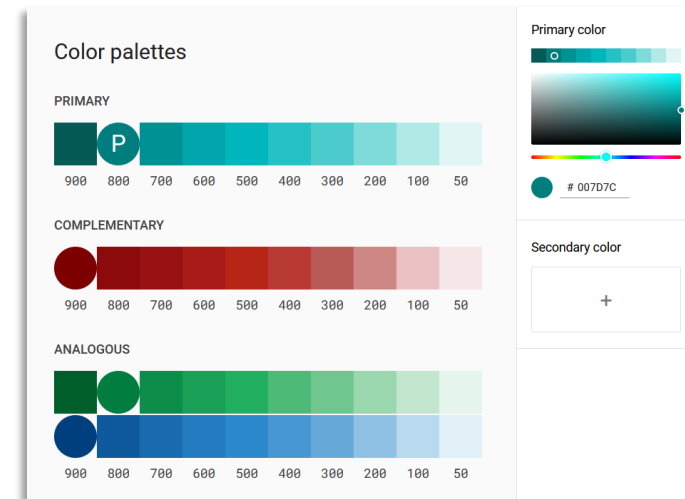
Rot
#7d0000



Grün
#007d00

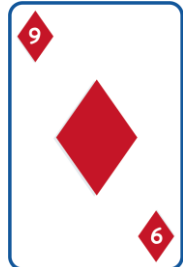


Dunkelblau
#022342

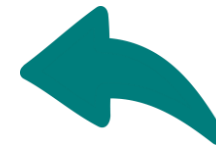
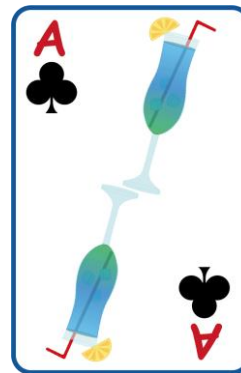
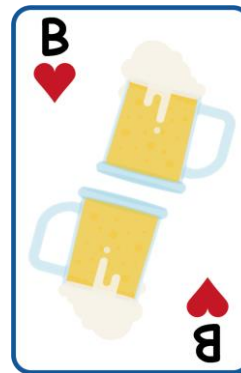
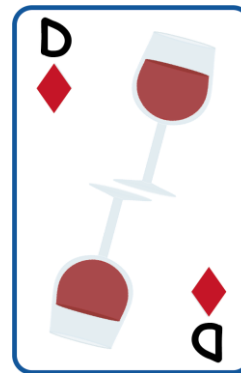
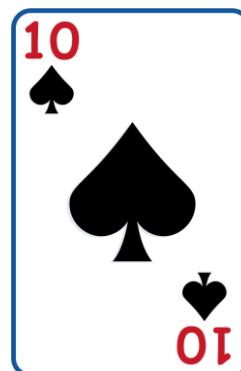
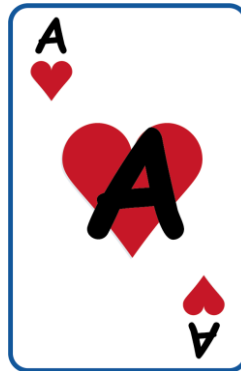
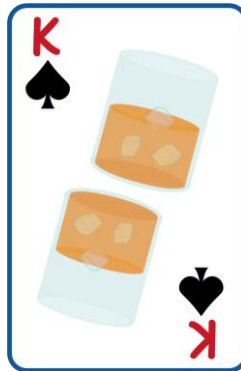


Design Karten & Icons

Alt

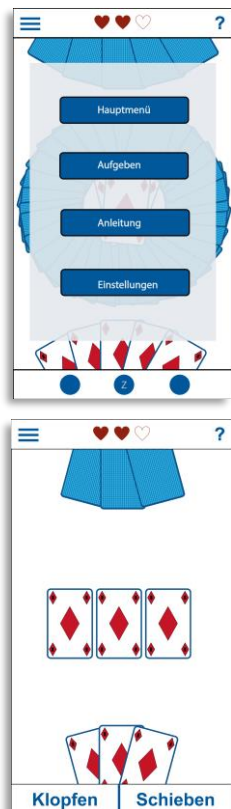


Neu

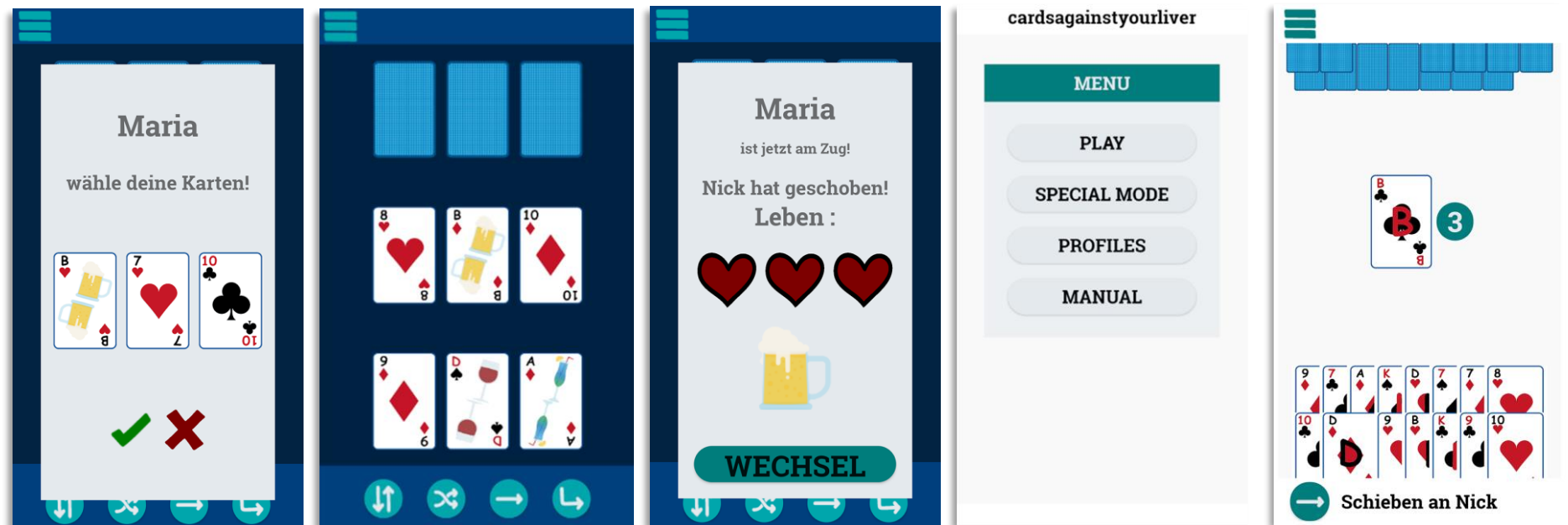


Finale Umsetzung

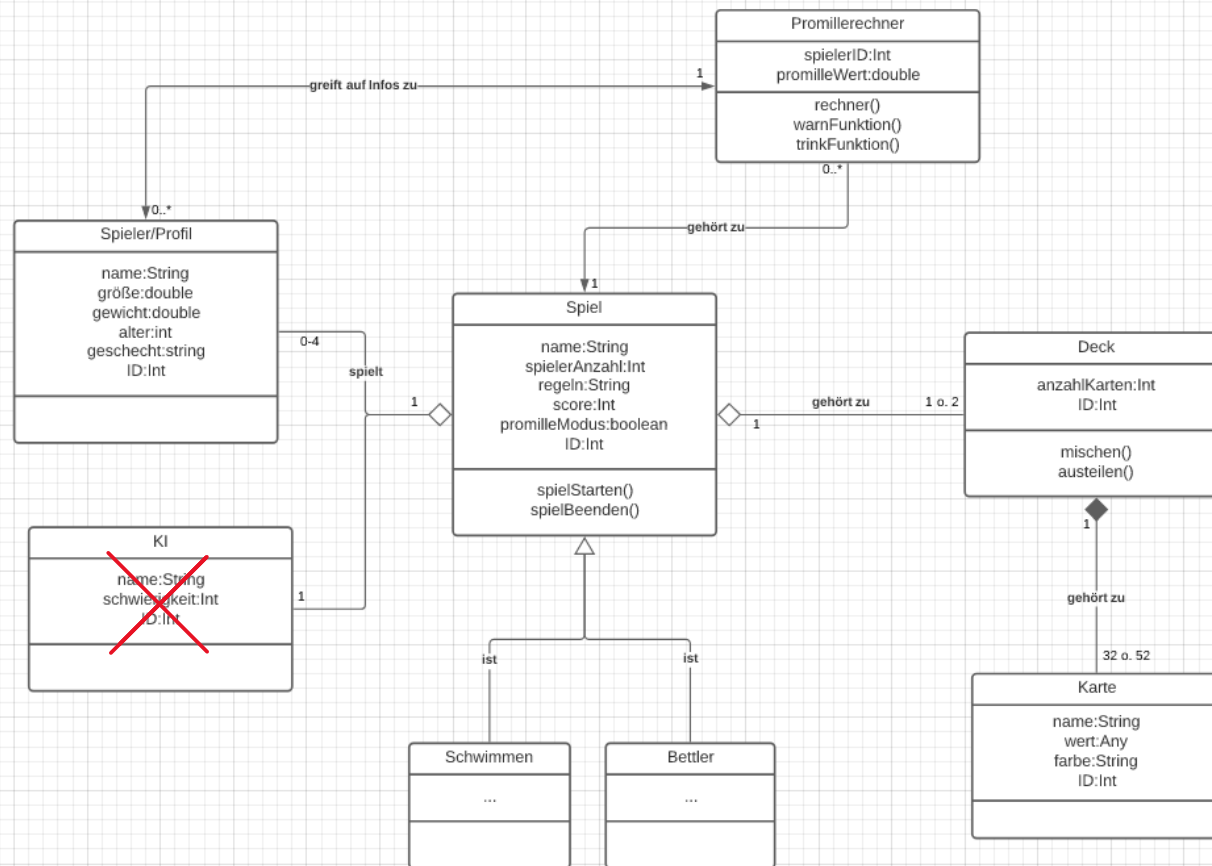
Alt



Neu



Architektur

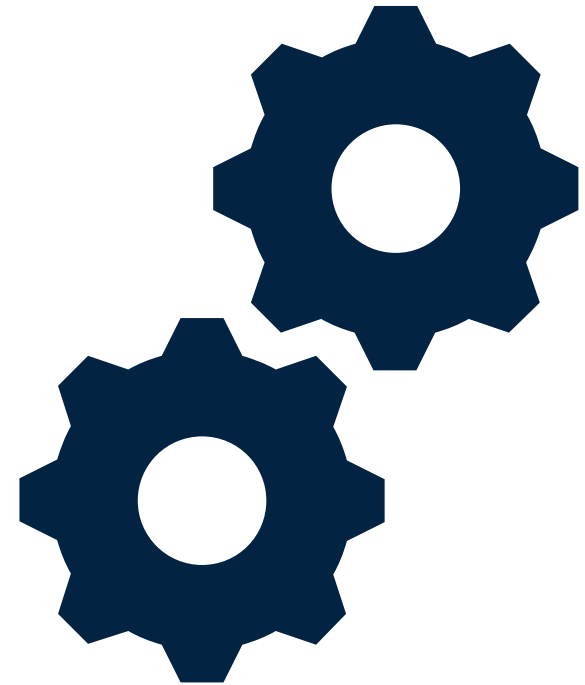


- BettlerActivity
- BettlerClass
- CardClass.kt
- DBHandler.kt
- DeckClass
- GameClass
- GamelistActivity.kt
- HandClass
- MainActivity
- ManualActivity
- NewGameActivity
- NullClass.kt
- PauseMenuActivity
- PerMilleCalculator
- PlayerClass
- PlayerSelectionActivity
- PopUpCardChooseActivity
- PopUpEndGameActivity
- PopUpEndGameBettlerActivity
- PopUpEndRoundActivity
- PopUpPer milleCalcActivity
- PopUpPlayerChangeActivity
- PopUpPlayerChangeBettlerActivity
- ProfileActivity
- ProfileSettingsActivity
- SchwimmenActivity
- SchwimmenClass.kt
- SpielerauswahlActivity

Live Demo

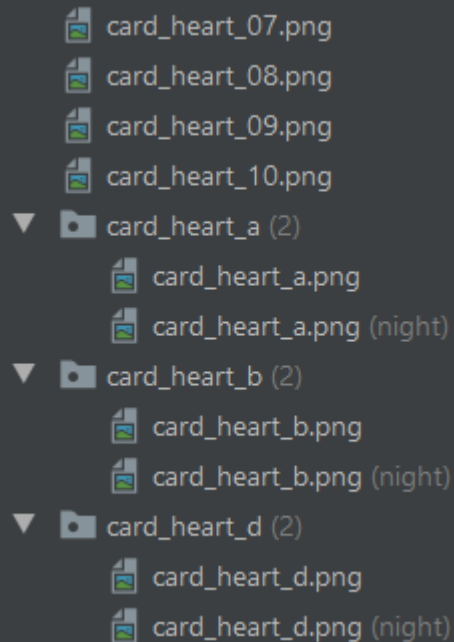


Technische Highlights



Technische Highlights

- Spielmodus Wechsel



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

    val appSettingPrefs: SharedPreferences = getSharedPreferences("AppSettingPrefs", mode: 0)
    val sharedPrefsEdit: SharedPreferences.Editor = appSettingPrefs.edit()
    val isNightModeOn: Boolean = appSettingPrefs.getBoolean("NightMode", defValue: false)

    if (isNightModeOn) {
        AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_YES)
    } else {
        AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_NO)
    }

    specialmode_button.setOnClickListener(View.OnClickListener { it: View!
        if (isNightModeOn) {
            AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_NO)
            sharedPrefsEdit.putBoolean("NightMode", false)
            sharedPrefsEdit.apply()
        } else {
            AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_YES)
            sharedPrefsEdit.putBoolean("NightMode", true)
            sharedPrefsEdit.apply()
        }
    })
}
```

Technische Highlights

- Spielkarten Logik

```
//Dies repräsentiert eine Spielkarte, sie hat ein Sign(Pik,Herz...) und ein Value (2,3,Bube...)  
class CardClass(private val sign: Sign, private val value: Value) : Null() {
```

```
override fun getPic(): Int {  
    var picture: Int = R.drawable.card_kreuz_07  
    when (sign) {  
        Sign.HERZ -> {  
            when (value) {  
                Value.SIEBEN -> picture = R.drawable.card_heart_07  
                Value.ACHT -> picture = R.drawable.card_heart_08  
                Value.NEUN -> picture = R.drawable.card_heart_09  
                Value.ZEHN -> picture = R.drawable.card_heart_10  
                Value.BUBE -> picture = R.drawable.card_heart_b  
                Value.DAME -> picture = R.drawable.card_heart_d  
                Value.KOENIG -> picture = R.drawable.card_heart_k  
                Value.ASS -> picture = R.drawable.card_heart_a
```

```
//das Value in einer Int Zahl  
override fun getValueNumber(): Int {  
    var valueNumber: Int = 0  
    when (value) {  
        Value.ZWEI -> valueNumber = 2  
        Value.DREI -> valueNumber = 3  
        Value.VIER -> valueNumber = 4  
        Value.FUENF -> valueNumber = 5  
        Value.SECHS -> valueNumber = 6
```

```
enum class Sign {  
    HERZ, KARO, PIK, KREUZ  
}  
  
enum class Value {  
    ZWEI, DREI, VIER, FUENF, SECHS, SIEBEN, ACHT,  
    NEUN, ZEHN, BUBE, DAME, KOENIG, ASS  
}
```

Technische Highlights

- Spielkarten Logik

```
var deck: MutableList<Null> = mutableListOf()

init {
    if (deckSize == 1) {
        for (sign in Sign.values())
            for (value in Value.values())
                deck.add(CardClass(sign, value))
    } else if (deckSize == 2) {
        for (sign in Sign.values())
            for (value in Value.values())
                if (value != Value.ZWEI && value != Value.DREI && value != Value.VIER && value != Value.FUENF && value != Value.SECHS) {
                    deck.add(CardClass(sign, value))
                }
    }
}
```

```
fun shuffle() = deck.shuffle()
```

```
//eine Karte wird aus dem Deck gezogen, wenn deck leer kommt Null
fun drawCard(): Null {
    if (deck.isEmpty())
        return deck.removeAt(index: 0)
    else
        return Null()
}
```

Fazit



Fazit - Was funktioniert gut?

- Kartenspiele
- Übersetzung der Mockups
- PopUp Menüs
- Datenbank
- Promillerechner

Fazit - Was wurde evtl. nicht ganz fertig?

- Drag & Drop mit Spielen verbinden
- KI

Fazit - Was war schwerer als erwartet?

- Layout Bettler
- Drag & Drop mit Spielen verbinden
- Spiele in Android mit Bildern + PopUps verbinden