STORING DATA PERMANENTLY - CHEATSHEET

Adding Dependencies: Storing Data

Dependencies:

```
val nav_version = "2.7.5"
val compose_version = "1.0.6-alpha08"
val room_version = "2.6.0"
implementation("androidx.room:room-
runtime:$room_version")
implementation("androidx.room:room-
ktx:$room_version")
kapt("androidx.room:room-
compiler:$room_version")
```

Storage Options:

SOLite

Structured data in a private database.

Room:

Abstraction over SQLite.

Shared Preferences:

Key-value pairs.

DataStore:

Asynchronous key-value storage.

Hexadecimal and Colors

Hex Color Codes:

<color name="my_red">#FF0000</color>

Usage in Kotlin:

val myRed = Color(0×FFFF0000.toInt())

Accessing Colors:

```
Text(
text = "Sample Text",
color = colorResource(id =
R.color.my_custom_color)
```

Card Layout in Jetpack Compose

Example:

```
Card(
modifier = Modifier
.filtMaxWidth()
.padding(16.dp)
.clickable { /* Handle card click */ },
elevation = 4.dp,
shape = RoundedCornerShape(8.dp)
) {
Column(modifier =
Modifier.padding(16.dp)) {
Text("Card Title", style =
MaterialTheme.typograph
y.h6)
Text("Card Content", style =
MaterialTheme.typogra
phy.body2)
}
```

Kotlin-KAPT Plugin

Setup:

```
plugins {
id("kotlin-kapt")
}
```

Uses:

- · Processes annotations.
- Generates code at compiletime
- Validates code before compilation.

Modifier.heightIn and Elevation

Example:

```
Modifier.heightIn(min = 100.dp, max =
200.dp).elevation(3.
dp)
```

Navigation Icon in Jetpack Compose

Example:

```
TopAppBar(
title = { Text("Title") },
navigationIcon = {
IconButton(onClick = {
navController.navigateUp()
}) {
Icon(Icons.Filled.ArrowBack,
contentDescriptio
n = "Go back")
}
}
}
```

Keyboard Options in Jetpack Compose

Example:

```
TextField(
value = textValue,
onValueChange = { textValue = it },
label = { Text("Enter Text") },
keyboardOptions = KeyboardOptions(
keyboardType = KeyboardType.Text,
imeAction = ImeAction.Done
),
keyboardActions = KeyboardActions(
onDone = { /* Define action */ }
)
```

Scaffold in Jetpack Compose

Usage:

```
Scaffold(
topBar = {
TopAppBar(
title = { Text("Scaffold Example") },
actions = {
IconButton(onClick = { /* doSomething */ }) {
Icon(Icons.Filled.Favorite, contentDes cription = "Localized description") }
},
floatingActionButtonPosition = FabPosition.End,
floatingActionButton(onClick = { /* handle click */ }) {
Icon(Icons.Filled.Add, contentDescription = "L ocalized description") }
},
drawerContent = {
DrawerHeader()
DrawerBeady() }
} (innerPadding -> BodyContent(Modifier.padding(innerPadding)) padding(8.d p))
}
@Composable fun BodyContent(modifier: Modifier = Modifier) {
// Your screen content }
```

FloatingActionButton in Jetpack Compose

Example:

```
FloatingActionButton(
  onClick = { /* Do something */ },
  backgroundColor =
  MaterialTheme.colors.secondary,
  contentColor = contentColorFor(backgroundColor = MaterialTheme.colors.secondary),
  elevation =
  FloatingActionButtonDefaults.elevation(6
  .d
  p)
  ) {
  Icon(Icons.Default.Add,
  contentDescription = "Add Ite
  m")
  }
```

Using Dummy Data

Example: