Mobile Applications CSCI 448 Lecture 32



Learning Outcomes For Today

 Discuss the interactions between the Dialog and the Snackbar

Explain a usage for each

On Tap For Today

UI Widgets

Practice

On Tap For Today

UI Widgets

Practice

Scaffold Components

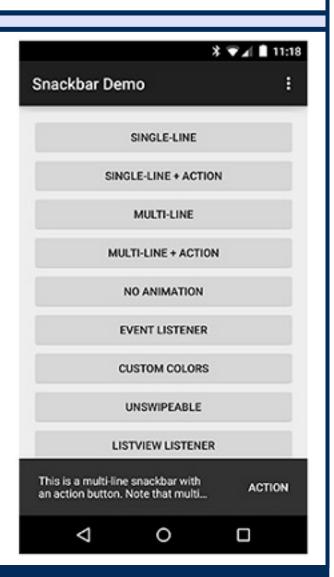
- TopBar
- Drawer
- Content
- FloatingActionButton
- Snackbar
- BottomBar





Snackbar

- Like a Toast
 - Displays a message to the user
 - A Toast stays displayed if you leave app
- Snackbars are part of UI
- And can have an action!



Snackbar Host State

- Need to track if snackbar is currently visible or not
 - Provide state to Scaffold

```
// in composable
val snackbarHostState = remember { SnackbarHostState() }
Scaffold(
    snackbarHost = { SnackbarHost(snackbarHostState) }
) { paddingValues ->
    // content
}
```

Displaying the Snackbar

- Snackbar animation occurs concurrently
 - Execute in coroutine

```
// in Content composable

val coroutineScope = rememberCoroutineScope()

coroutineScope.launch {
   val snackbarResult = snackbarHostState.showSnackbar(
        message = "Snackbar Text",
        duration = SnackbarDuration.Short,
        actionLabel = "Action"
   )
}
```

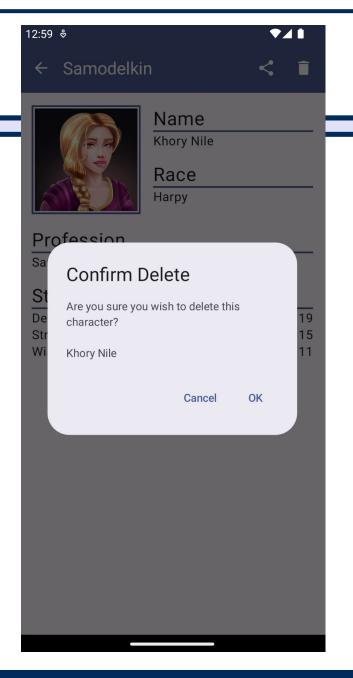
Snackbar Result

Tells you what happened

```
// in Content composable
val coroutineScope = rememberCoroutineScope()
coroutineScope.launch {
 val snackbarResult = ...
 when (snackbarResult) {
    SnackbarResult.Dismissed -> { /* dismissed */ }
    SnackbarResult.ActionPerformed -> {
      // user pressed action button, handle event
```

AlertDialog

 Intercepts UI and prompts user for confirmation



AlertDialog

```
val dialogVisibleState = remember { mutableStateOf(false) }
if (dialogVisibleState.value) {
  AlertDialog(
    onDismissRequest = { dialogVisibleState.value = false },
    confirmButton = {
      TextButton(
        onClick = {
          dialogVisibleState.value = false
          /* positive action */
        Text( text = "Yes" )
    },
    dismissButton = {
      TextButton( onClick = { dialogVisibleState.value = false } {
        Text( text = "No" )
    },
    title = { Text( text = "Title" ) },
    text = { Text( text = "Message" ) }
```

Demo!

On Tap For Today

UI Widgets

Practice

To Do For Next Time

- Today: Exam 2 + L10 due
- Monday: Beta Release due
- Thursday: Beta Feedback due, A3 due
- Friday: No Class (E-Days)
- Monday: L11 due