

Mobile Applications

CSCI 448

Lecture 33



UI / UX:
Navigating
&
Floating Action Button

Learning Outcomes For Today



- Discuss the interactions between the Floating Action Button

Scaffold Components



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



Navigation UI/UX

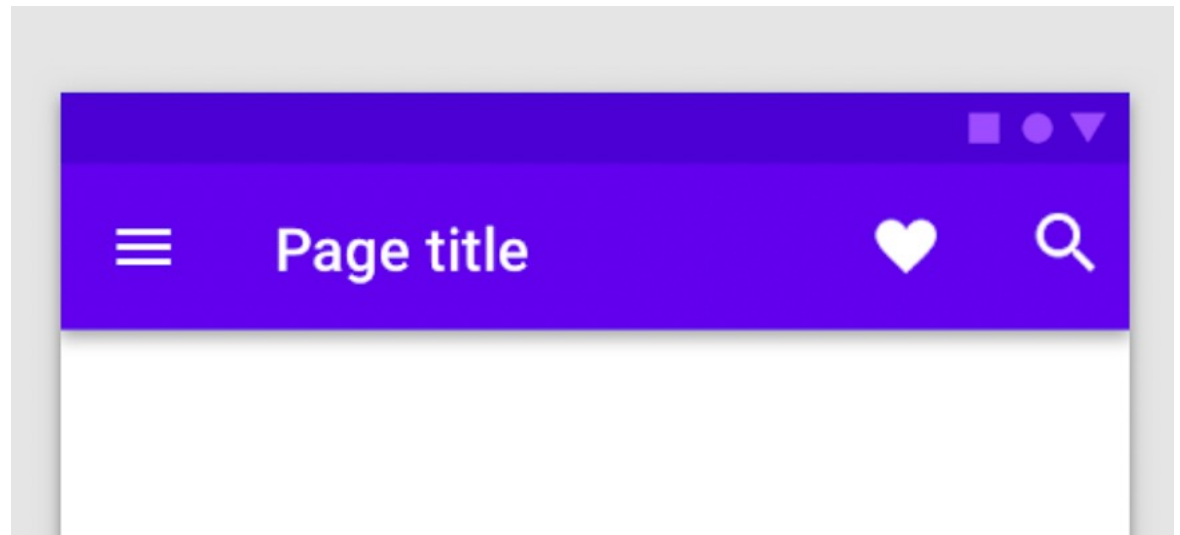


- Depending on number of destinations
 - 2-3: Use TopBar
 - 3-5: Use BottomBar
 - 5+: Use Drawer

Scaffold Top Bar



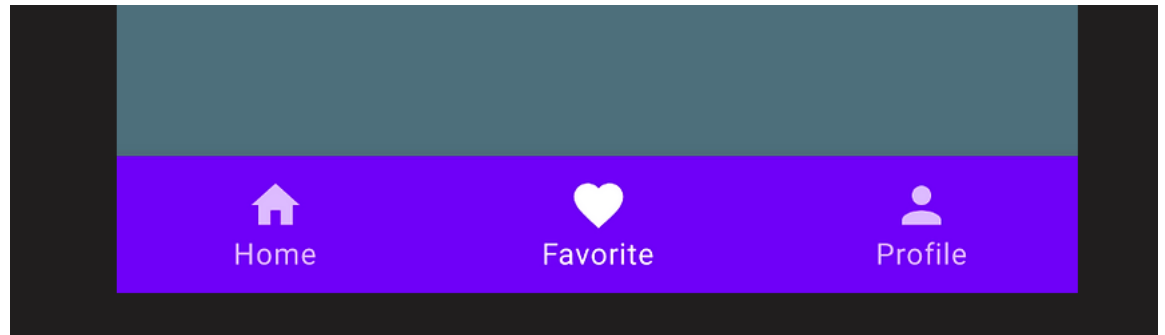
```
Scaffold(  
  topBar = {  
    TopAppBar(  
      navigationIcon = ...,  
      title = { Text("Page title") },  
      actions = {  
        IconButton(  
          onClick = { navController.navigate(...) }  
        )  
      }  
    )  
  },  
  // other arguments  
)
```



Scaffold Bottom Bar



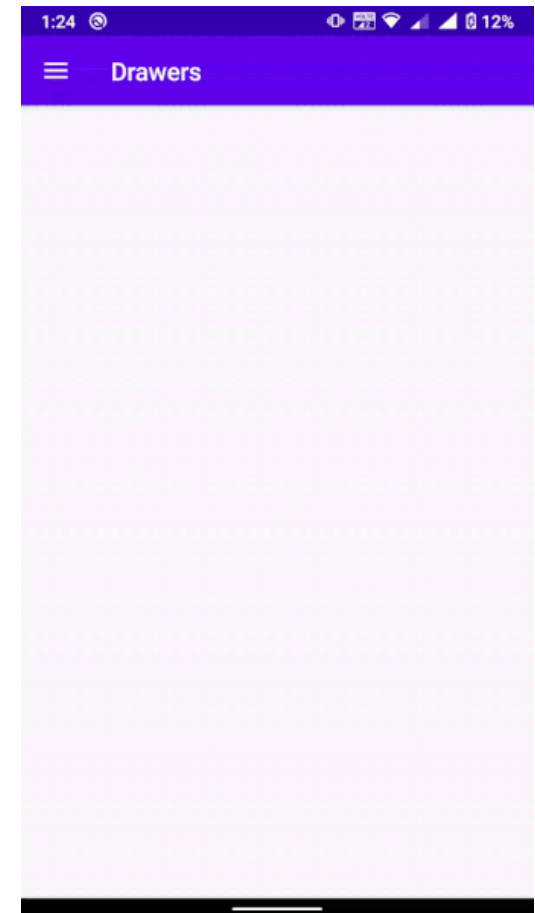
```
Scaffold(  
  bottomBar = {  
    BottomNavigation {  
      BottomNavigationIcon(  
        icon = { ... },  
        selected = (selected.value == idx),  
        onClick = {  
          selected.value = idx  
          navController.navigate(...)  
        }  
      )  
    },  
    // other arguments  
  )  
)
```



Scaffold Drawer



```
Scaffold(  
  drawerContent = { /* already set up as Column */  
    MyContent1(  
      modifier = Modifier  
        .clickable {  
          navController.navigate(...)   
        }  
    )  
    Divider()  
    MyContent2(  
      modifier = Modifier  
        .clickable {  
          navController.navigate(...)   
        }  
    )  
  },  
  // other arguments  
)
```



Scaffold FAB



- Pages most important action

```
Scaffold(  
  floatingActionButton = {  
    FloatingActionButton(  
      onClick = { /*action*/ }  
    ) {  
      /* content */  
    }  
  },  
  // other arguments  
)
```



Scaffold FAB



```
Scaffold(  
  floatingActionButton = {  
    FloatingActionButton(  
      onClick = { /*action*/ }  
    ) {  
      /* content */  
    }  
  },  
  isFloatingActionButtonDocked = true,  
  // other arguments  
)
```



Scaffold FAB w/ ButtonBar



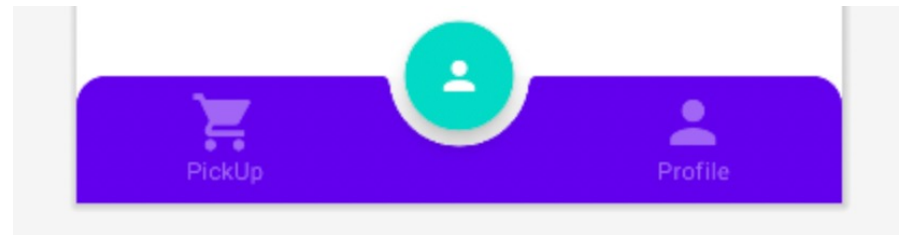
```
Scaffold(  
  floatingActionButton = {  
    FloatingActionButton(  
      onClick = { /*action*/ }  
    ) {  
      /* content */  
    }  
  },  
  isFloatingActionButtonDocked = true,  
  bottomBar = {  
    BottomBar(  
      cutoutShape = MaterialTheme.shapes.small.copy(  
        CornerSize(percent = 50)  
      )  
    ) {  
      /* content */  
    }  
  },  
  // other arguments  
)
```



Scaffold FAB w/ ButtonBar



```
Scaffold(  
  floatingActionButton = {  
    FloatingActionButton(  
      onClick = { /*action*/ }  
    ) {  
      /* content */  
    }  
  },  
  isFloatingActionButtonDocked = true,  
  floatingActionButtonPosition = FabPosition.center,  
  bottomBar = {  
    BottomBar(  
      cutoutShape = MaterialTheme.shapes.small.copy(  
        CornerSize(percent = 50)  
      )  
    ) {  
      /* content */  
    }  
  },  
  // other arguments
```



Beta Release / Feedback



- BR due tonight
- Feedback
 - Works same way as Alpha Feedback
 - Install assigned apps
 - Provide feedback via form
 - Due Thursday

L11 / A3 Updates



- L11 due Mon Apr 17
 - (was posted late)
- A3 due Tue Apr 18
 - (API Webpage was down)