

Name: PHẠM ĐỨC ĐẠT

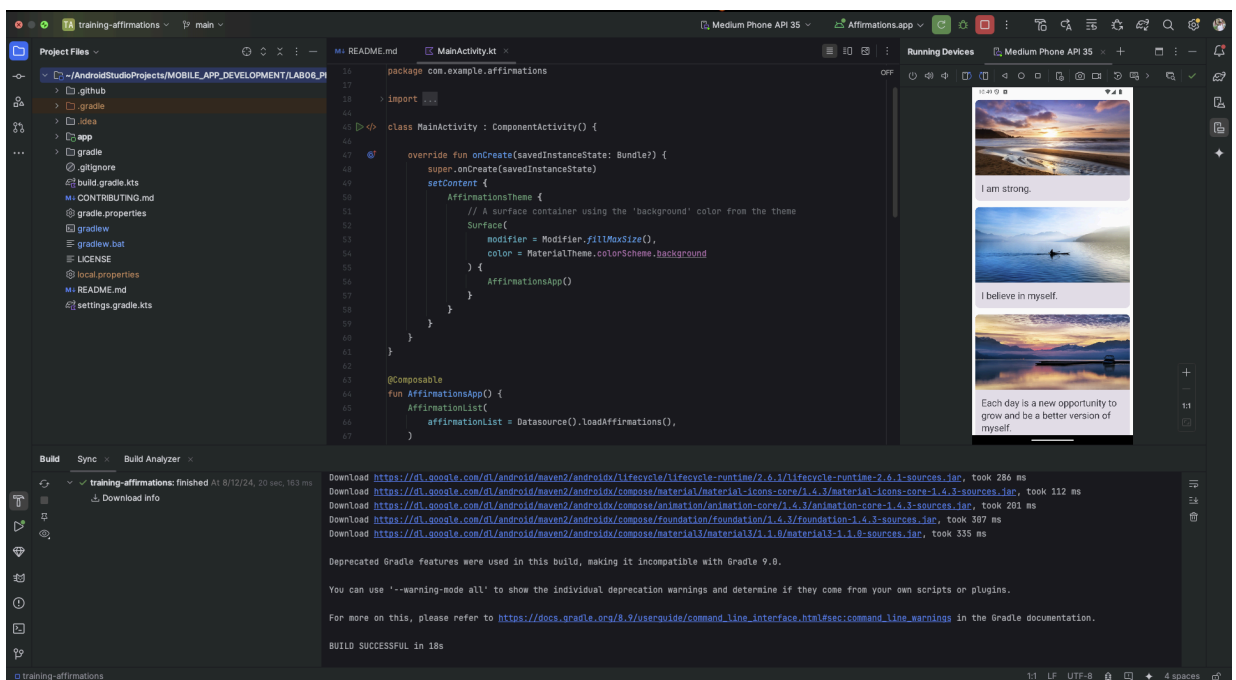
ID STUDENT: ITITIU20184

LAB 06 - Lesson 7: Activity and fragment lifecycles

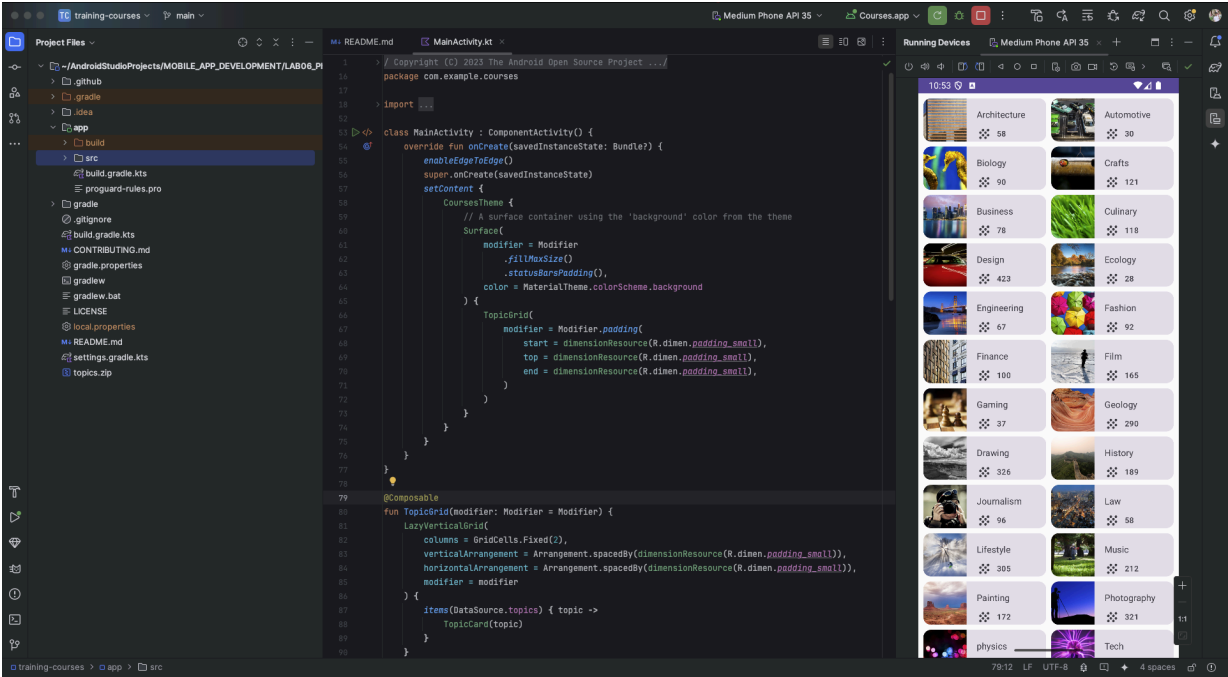
Part 1: Build a scrollable list

Intro to Affirmations app

Add a scrollable list



Practice: Build a grid



QUIZ

Build a scrollable list



Let's do a quick test! You must answer at least 6 questions correctly to pass this quiz.



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1. Adaptive launcher icons for Android apps consist of a foreground and background vector drawable.

☒ True ☒ Correct!

☐ False

2. When building a UI that requires a scrolling list with a variable number of items, which Composable should you use?

☐ Column

☐ Row

☒ LazyColumn ☒ Correct!

☐ Card

3. What file type is used for the launcher icon foreground and background vectors?

☐ .txt

☐ .jpg

☐ .png

☒ .xml ☒ Correct!

4. Which Composable should you use to create a vertically scrollable grid with an undetermined number of items?

☐ `LazyColumn`

☒ `LazyVerticalGrid`

✓ Correct!

☐ `LazyHorizontalGrid`

☐ `Row`

5. The `Column` composable is not a good option for a list of items of unknown quantity because ____.

☒ It can only hold a small, finite number of predefined items

✓ Correct!

☐ It arranges items vertically

☐ It provides scrolling by default without any additional code

☐ It can add content on demand

6. The ____ method is used to add content to a `LazyColumn` Composable.

☐ `painterResource()`

☐ `Modifier.padding()`

☒ `items()`

✓ Correct!

☐ `onCreate()`

7. Which Composable arranges items horizontally?

☐ `Column`

☐ `Card`

☐ `Image`

☒ `Row`

✓ Correct!

8. Which Composable arranges items vertically?

☒ Column

☒ Correct!

☐ Card

☐ Image

☐ Row

Results

You scored **8 out of 8**. Congratulations! You have passed this quiz.

Part 2: Build beautiful apps

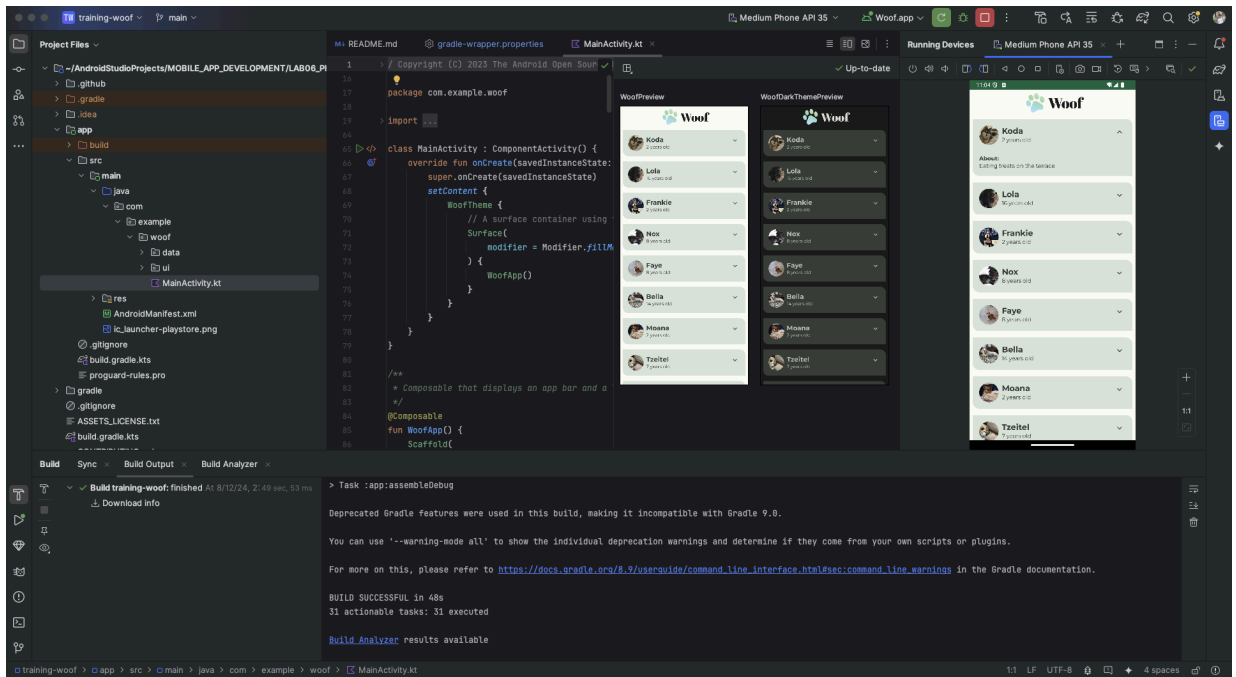
Material Theming with Jetpack Compose

Simple animation with Jetpack Compose

Testing for Accessibility'

Woof App

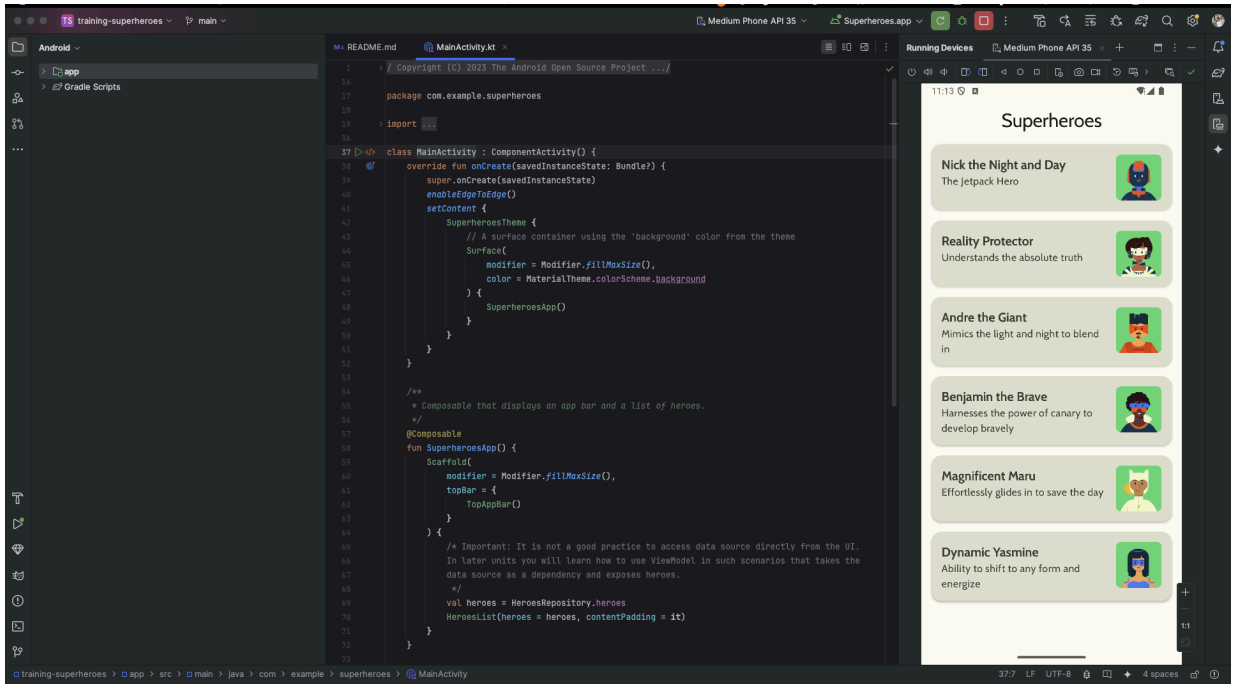
The Woof app is a list of dog photos with information about them including their name, age, and favorite activity. This app also uses Material Design to create a beautiful app experience for the user.



Practice: Build Superheroes app

Superheroes app

Material theming is used to display a list of superheroes in this app. The app also demonstrates simple animations.



Quiz

Build beautiful apps



Let's do a quick test! You must answer at least 9 questions correctly to pass this quiz.

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1. Animations in your Android app can:

- ☐ Add visual cues about what's going on in your app.
- ☐ Add a polished look to your app.
- ☐ Help the user see what changed.
- ☒ All of the above. ✓ Correct!

2. Spring animation is based on:

- ☐ Start and end values over the specified duration.
- ☒ Damping ratio and stiffness. ✓ Correct!
- ☐ Snapshot values specified at different timestamps.
- ☐ Interpolation between two keyframe values.

3. Spring animation is a physics-based animation driven by spring force.

- ☒ True ✓ Correct!
- ☐ False

4. In the Material theming, the ___ color is the color displayed most frequently across your app's screens and components.

☒ primary ✓ Correct!

☐ secondary

☐ surface

☐ background

5. The following file is used to define shapes of components in Compose.

☐ Theme.kt

☐ Color.kt

☒ Shape.kt ✓ Correct!

☐ Colors.kt

6. You can only have one @Preview composables

☐ True

☒ False ✓ Correct!

7. A hex color code starts with a pound (#) character, and is followed by six letters and/or numbers that represent the red, green, and blue (RGB) components of that color.

☒ True ✓ Correct!

☐ False

8. The ___ file is the file that holds all the information about the theme of the app which is defined through color, shape, and typography.

☒ Theme.kt ✓ Correct!

☐ Color.kt

☐ Shape.kt

☐ Colors.kt

9. ___ creates contrast between the Card and the background by adding a shadow to make the app look more realistic and visually interesting?

☒ Elevation ☒ Correct!

☐ Shape

☐ Color

☐ Theme

10. What are reasons that someone may use Dark Theme on their device?

☐ It can reduce power usage by a significant amount (depending on the device's screen technology).

☐ It improves visibility for users with low vision and those who are sensitive to bright light.

☐ It makes it easier for anyone to use a device in a low-light environment.

☒ All of the above. ☒ Correct!

11. TalkBack allows a user to navigate an app using switches instead of the touchscreen.

☐ True

☒ False ☒ Correct!

12. Which attribute allows TalkBack to speak a meaningful representation of an image or icon?

☐ elevation

☐ shape

☒ contentDescription ☒ Correct!

☐ style

Results

You scored **12 out of 12**. Congratulations! You have passed this quiz.