# Lesson 6: App navigation

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

## 1. Which of the following statements about fragments are true? Select all that apply.

*Choose as many answers as you see fit.*

☑ You can use a `Fragment` in more than one `Activity`.  ⊘ Correct!

☑ One `Activity` can have multiple fragments.  ⊘ Correct!

☐ After you define a `Fragment` in a Kotlin class, the fragment is automatically added to the `activity_main.xml` layout file.

☑ Use the `<fragment>` tag to define the place in a layout file where a `Fragment` is to be inserted.  ⊘ Correct!

## 2. How do you enable your project to use navigation components?

○ Make sure every `Activity` class extends the class `NavigationActivity`.

○ Use the `NavigationController` class as the launch activity.

○ Add `uses-navigation` to the `AndroidManifest.xml` file.

◉ Add dependencies for `navigation-fragment-ktx` and `navigation-ui-ktx` in the `build.gradle` (module) file.  ⊘ Correct!

## 3. Where are the possible navigation routes through your app defined?

○ In a file (often called `navigation.xml`) in the `res` > `layout` folder.

○ In a file (often called `navigation.xml`) in the `app` > `navigation` folder.

◉ In a file (often called `navigation.xml`) in the `res` > `navigation` folder.    ✓ Correct!

○ In the `AndroidManifest.xml` file, under the element.

## 4. Which of the following statements about the `NavHostFragment` are true?

*Choose as many answers as you see fit.*

☑ As the user moves between destinations defined in the navigation graph,    ✓ Correct!
the `NavHostFragment` swaps the fragments in and out as necessary.

☐ You can click the `NavHostFragment` in the project view to open the navigation graph.

☑ You add the `NavHostFragment` to the main layout by adding a fragment    ✓ Correct!
whose name is `androidx.navigation.fragment.NavHostFragment`.

☐ You must create a single `NavHostFragment` subclass and implement the `onNavigate()`
method to handle different kinds of navigation (such as button clicks)

## 5. Where do you set the ID of a fragment to be used in navigation?

○ In the fragment layout file, either by setting the ID attribute in the design editor or in the layout
XML file in the `res` > `layout` folder.

◉ In the project navigation file, either by setting the ID attribute in the    ✓ Correct!
navigation graph or in the `navigation.xml` file in the `res` > `navigation`
folder.

○ You need to set the ID in both the navigation file for the app and the layout file for the
fragment.

○ Set the ID variable in the relevant `Fragment` class.

## 6. Where do you define the items for a menu?

○  It depends on where the menu will be shown. For a navigation drawer menu, add an `<item>`
tag for each menu item in the `menu.xml` file in the `res` > `drawer` folder. For the options menu,
add an `<item>` tag for each menu item in the `menu.xml` file in the `res` > `options` folder.

○  In the layout file for the fragment or activity that displays the menu, add a `<menu>` tag that
contains `<item>` tags for each item.

◉  In a `menu_name.xml` file in the `res` > `menu` folder, add an `<item>` tag for          ⊘  **Correct!**
each menu item. Create separate XML files for each separate menu.

○  In the `AndroidManifest.xml` file, add a `<menus>` tag that contains a `<menu>` tag for each
menu, that in turn contains an `<item>` tag for each menu item.

## 7. What do you need to do to enable the overflow menu (also known as the options menu)? You can assume you have already defined the menu items.

*Choose as many answers as you see fit.*

☑  Call `setHasOptionsMenu(true)` in `onCreate()` for an `Activity` or          ⊘  **Correct!**
`onCreateView()` for a `Fragment`.

☑  Implement `onCreateOptionsMenu()` in the `Activity` or `Fragment` to create          ⊘  **Correct!**
the menu.

☐  Set the `onClick` attribute in the `menu.xml` file to `onShowOptionsMenu`, unless you are
implementing a custom `onClick` listener for the options menu, in which case specify the name
of that custom listener instead.

☑  Implement `onOptionsItemSelected()` in the `Activity` or `Fragment` to          ⊘  **Correct!**
determine what happens when a user selects a menu item in the options
menu.

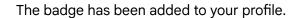## 8. What does the Safe Args Gradle plugin do? Select all that apply.

*Choose as many answers as you see fit.*

✅ Generates simple object and builder classes for type-safe access to arguments specified for destinations and actions.      ⊘ Correct!

☐ Creates `Navigation` classes that you can edit to simplify the passing of parameters between fragments.

✅ Generates a method for each action that you have defined in the navigation graph.      ⊘ Correct!

☐ Prevents your code from using the wrong key when extracting data from a bundle.

# Results

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

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