120 Flutter Interview Questions

part - 5

#flutterdaily

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41) Differentiate between required and optional parameters in Dart ?

Required parameters are the arguments that are passed to a function and the function or method required all those parameters to complete its code block.

ex: getData(int color, int favNum)

Optional parameters are defined at the end of the parameter list, after any required parameters. In Flutter/Dart, there are 3 types of optional parameters:

- Named – Parameters wrapped by { }

    ex: getData(int color, {int favNum})

- Positional – Parameters wrapped by [ ]

    ex: getData(int color, [int favNum])

- Default – Assigning a default value to a parameter.

    ex: getData(int color, [int favNum = 6])

42) Explain the different types of Streams?

Single subscription streams:

It is a popular and common type of stream. It consists of a series of events that are parts of a large whole. Here all events have to be delivered in a defined order without even missing a single event. It is a type of stream that you get when you get a web request or receive a file. This stream can only be listed once. Listing it, again and again, means missing initial values and overall stream makes no sense at all. When the listing starts in this stream the data gets fetched and provided in chunks.

Broadcast streams:

This stream is meant for the individual messages that can be handled one at a time. These types of streams are commonly used for mouse events in a browser. You can list this type of stream at any time. Multiple listeners can listen at a time and also you have a chance to listen after the cancellation of the previous subscription

43) What is the difference between NetworkImage and Image.network in flutter?

NetworkImage class creates an object the provides an image from the src URL passed to it. It is not a widget and does not output an image to the screen. Image.network creates a widget that displays an image on the screen. It is just a named constructor on the Image class (a stateful widget). It sets the image property using the NetworkImage . This image property is used finally to display the image.

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44) What is the difference between SizedBox VS Container?

The Container widget can contain multiple child widgets and manage them efficiently through width, height, padding, background color, etc. If we have a widget that needs some background styling may be a color, shape, or size constraint, we may wrap it in a container widget.
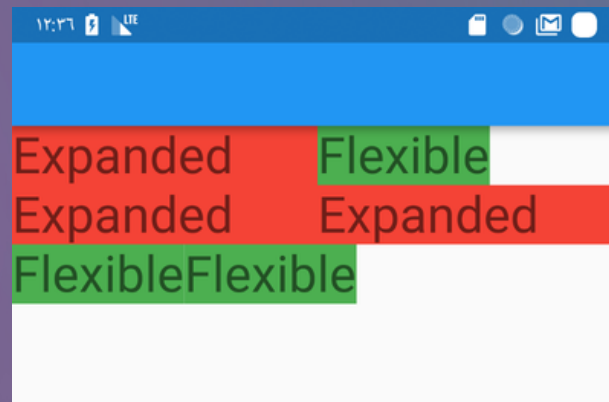
The SizedBox widget is a box that comes in a specified size. Unlike Container, it does not allows us to set the color or decoration for the widget. We can only use it for sizing the widget passed as a child. It means it forces its child widget to have a specific width or height.

45) Difference between Flexible vs Expanded widget?

Flexible is a built-in widget in flutter which controls how a child of base flex widgets that are Row, Column, and Flex will fill the space available to it.

The Expanded widget in flutter is shorthand of Flexible with the default fit of FlexFit.

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46) Why expanded is used in flutter?

Using an Expanded widget makes a child of a Row, Column, or Flex expand to fill the available space along the main axis (e.g., horizontally for a Row or vertically for a Column). If multiple children are expanded, the available space is divided among them according to the flex factor.

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47) What is a spacer widget in Flutter?

Spacer creates an adjustable, empty spacer that can be used to tune the spacing between widgets in a Flex container, like Row or Column.

The Spacer widget will take up any available space, so setting the Flex. mainAxisAlignment on a flex container that contains a Spacer to MainAxisAlignment.

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48) What is CustomScrollView?

CustomScrollView in Flutter is a scroll view that allows us to create various scrolling effects such as grids, lists, and expanding headers. It has a sliver property where we can pass a list of widgets that include

- SliverAppBar
- SliverToBoxAdapter
- SliverList and SliverGrid, etc.

49) What is an AspectRatio widget used for?

The AspectRatio widget deals with proportions and not with exact dimensions. It takes a ratio between the width and height and attempts to set the size of its child. It accomplishes this by giving the child all the available width and calculating the height by applying the ratio to that width.

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50) When should I use SingleChildScrollView?

Flutter SingleChildScrollView is as the name suggests, it is used to scroll a single child. Sometimes we have a lot of content in our screen which does not fit the screen. In that case we use the Flutter SingleChildScrollView so we can scroll the content and see the whole content in one screen.

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