953494 Selected Topics in Software Engineering 1

Application Interface

Choose one application from any store, implement one of its interfaces.

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Instruction

Choose one application from any store, implement one of its interfaces. Explain about the widget that you use and explain about the widget tree to create the application's interface.

Application

Reference Application CMU MOBILE

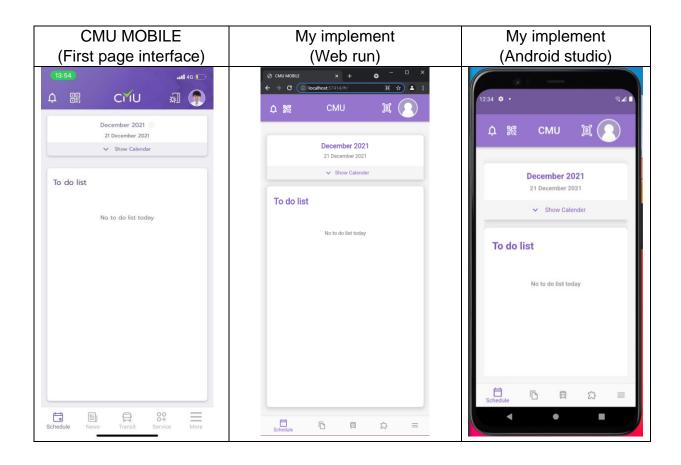


Table 1 Compare implement application with reference

GitHub Link

(https://github.com/krt-n201x/622115003_Kitsada_49464/tree/main/cmumobile) or click here

Widget's Tree

My App

- MaterialApp
 - MyStatefulWidget
 - Scaffold
 - AppBar
 - \circ Row
 - Widget children
 - IconButton
 - Stack
 - Widget children
 - IconButton
 - Position
 - Expanded
 - o Center
 - Text
 - Widget actions
 - IconButton
 - SizeBox
 - Tab
 - Container
 - o Image
 - SizeBox
 - Body
 - ListView
 - Calender
 - Container
 - BoxDecoration
 - BoxShadow
 - o Column
 - Text
 - SizeBox
 - Text
 - SizeBox
 - Container

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- Todolist
 - Container

(Continue page 3, 2.2)

BottomNavigationBarItem

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(From page 2, 2.1)

- Container
 - o Row
 - IconButton
 - Text

(From page 2, 2.2)

- Container
 - Boxdecoration
 - BoxShadow
 - o Column
 - SizeBox
 - Text
 - SizeBox
 - Row
 - Text

(From page 2, 2.3)

- BottomNavigationBarItem
 - o Icon
 - o Icon
 - o Icon
 - o Icon
 - o Icon

Widget's Tree explanation (Part 1)

Widget name Description

Appbar Creates a material design app bar.

Body Part of detail on this page.

BottomNavigationBarltem The flutter original class, widgets to create the

bottom navigation bar (navigation bar at the bottom

of the screen).

BoxDecoration Creates a box decoration. To contain the decoration

command.

BoxShadow Create a shadow of the component.

Calender The original widget, implement to contain the

component in the first box part.

Column Is the creation of a table in Row style to wrap the

element in Vertical.

Container Creates a widget that combines common painting,

positioning, and sizing widgets.

The height and width values include the padding. The color and decoration arguments cannot both be supplied, since it would potentially result in the decoration drawing over the background color.

Expanded Creates a widget that expands a child of a [Row],

[Column], or [Flex] so that the child fills the available

space along the flex widget's main axis.

IconButton Creates an icon button.

Image Creates a widget that displays an image.

List View List that will show the component.

Position Creates a widget that controls where a child of a

[Stack] is positioned.

Row Is the creation of a table in Row style to wrap the

element in Horizontal.

Widget's Tree explanation (Part 2)

Widget name Description

SizeBox Creates a fixed size box.

Stack Creates a stack layout widget.

Tab Creates a material design [TabBar] tab.

Text Creates a text widget. To display data

Todolist The widget contains a component to display in the

to-do list box.

Widget actions List of widgets used in navigation bar, it will keep

the element or component in the right position.

Widget children List of widgets used in navigation bar, it will keep

the element or component in the left position.