Quiz App

Widgets (Stateful, Stateless)

MyApp() - Stateless

- MyHomePage() - **Stateful** => Platform.isIOS
  - true: CupertinoPageScaffold()
    - navigationBar: *appBar*
    - child: *pageBody*
  - false: Scaffold()
    - appBar: *appBar*
    - body: *pageBody*
    - floatingButtonAction: Platform.isIOS
      - True: Container()
      - False: FloatingActionButton(+) => **Function** *startAddNewTransaction(context)*

NewTransaction(Function *addNewTransaction*) - Stateful

- SingleChildScrollView()
  - Card()
    - Container()
      - Column()
        - TextField(Title) => **Function** *submitData()*
        - TextField(Title) => **Function** *submitData()*
        - Container()
          - Row()
            - Expanded()
              - Text() => selectedDate
            - AdaptiveFlatButton() => **Function** presentDatePicker
        - ElevatedButton() => **Function** *submitData()*

TransactionList(transactions, Function deleteTransactions) - Stateless

- Transactions.isEmpty
  - true: LayoutBuilder()
    - Column()
      - Text() => “No Transactions”
      - SizedBox()
      - Container()

        - Image.asset()
  - false: ListView()
    - *TransactionItem(key, transaction, **Function** deleteTransactions(id))*

Chart(recentTransaction) - Stateless

- Card()
  - Padding()
    - Row()
      - Flexible()
        - *ChartBar(weekDay, spendingAmount, spendingPctOfTotal)*
        - ChartBar(weekDay, spendingAmount, spendingPctOfTotal)
        - *ChartBar(weekDay, spendingAmount, spendingPctOfTotal)*
        - *ChartBar(weekDay, spendingAmount, spendingPctOfTotal)*
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        - *ChartBar(weekDay, spendingAmount, spendingPctOfTotal)*
        - *ChartBar(weekDay, spendingAmount, spendingPctOfTotal)*

TransactionItem(key, transaction, Function deleteTransactions) - Stateful

- Card()
  - ListTile()
    - leading: CircleAvatar()
      - Padding()
        - FittedBox()
          - Text() => transactionAmount
    - title: Text() => Title
    - subtitle: Text() => Date
    - trailing: width > 460
      - true: TextButton.icon(delete) => **Function** *deleteTransactions(id)*
      - false: IconButton(delete) => **Function** *deleteTransactions(id)*

ChartBar(weekDay, spendingAmount, spendingPctOfTotal) - Stateless

- LayoutBuilder()
  - Column()
    - Container()
      - FittedBox()
        - Text() => spendingAmount
      - SizedBox()
      - Container()

  - Stack()
    - Container()
    - FractionallySizedBox()
      - Container()
- SizedBox()
- Container()
  - FittedBox()
    - Text() => weekDay

Widgets

appBar

- buildAppBar(): Platform.isIOS
  - true: CupertinoNavigationBar()
    - middle: Text() => Title
    - trailing: Row()
      - GestureDetector(+) => **Function** *startAddNewTransaction(context)*
  - false: AppBar()
    - title: Text() => Title
    - actions:
      - IconButton(+) => **Function** *startAddNewTransaction(context)*

pageBody

- SafeArea()
  - SingleChildScrollView()
    - Column()
      - isLandscapeMode => *buildLandscapeContent(mediaQuery, appBar, txListWidget)*
      - isPortraitMode => *buildPortraitContent(mediaQuery, appBar, txListWidget)*

txListWidget

- Container()
  - *TransactionList(transactions, **Function** deleteTransactions(id))*

buildPortraitContent(mediaQuery, *appBar*, *txListWidget*)

- Container()
  - *Chart(**List** recentTransaction)*
- *txListWidget*

buildLandscapeContent(mediaQuery, *appBar*, *txListWidget*)

- Row()
  - Text() => “Show Chart”

- Switch(**bool** showChart)

- showChart
  - true: Container()
    - *Chart(**List** recentTransaction)*
  - false: *txListWidget*

Functions

startAddNewTransaction(context)

- showModalBottomSheet()
  - GestureDetector()
    - NewTransaction(**Function** addNewTransaction(newTransaction))

addNewTransaction(newTransaction)

- userTransactions.add(newTransaction)

deleteTransactions(id)

- userTransactions.removeWhere(id)

submitData()

- addNewTransaction(newTransaction)
- popScreen()

presentDatePicker()

- showDatePicker()