Meals App

Widget(Stateful, Stateless)

MyApp() - Stateful

- MaterialApp()
  - title: 'DeliMeals'
  - theme: Themes
  - initialRoutes: '/'
  - routes
    - '/' => *TabScreen(favoriteMeals)*
    - *CategoryMealsScreen(availableMeals)*
    - *MealDetailScreen(**Function** toggleFavorite(mealId), **Function** isMealFavorite(id))*
    - *FiltersScreen(filters, **Function** setFilters(filterData))*
  - onUnknownRoute
    - MaterialPageRoute()
      - *CategoriesScreen()*

TabScreen(favoriteMeals) - Stateful

- Scaffold()
  - appBar: AppBar()
    - title:Text() -> selectedPage.Title
    - drawer: *MainDrawer()*
    - body: selectedPage.widget
    - bottomNavigationBar: BottomNavigationBar() => **Function** *selectPage(index)*
      - currentIndex: selectedPage.Index
      - items:
        - BottomNavigationBarItem(Category) -> Categories
        - BottomNavigationBarItem(Star) -> Favorites

CategoryMealScreen(availableMeals) - Stateful

- Scaffold()
  - appBar: AppBar()
    - title: Text() -> categoryTitle
    - body: ListView.builder()

- itemCount: displayedMeals.length
- itemBuilder:
  - *MealItem(id, title, imageUrl, duration, affordability, complexity)*

MealDetailScreen(Function *toggleFavorite*, Function *isFavorite*)

- Stateless

- Scaffold()
  - appBar: AppBar()
    - title: selectedMeal.Title
  - body: SingleChildScrollView()
    - Column()
      - SizedBox()
        - Image.network() -> selectedMeal.ImageUrl
      - *buildSectionTitle('Ingredients')*
      - *buildContainer()*
        - ListView.builder()
          - itemCount: selectedMeal.ingredient.length
          - itemBuilder:
            - Card()
              - Padding()
                - Text() -> Ingredients
      - *buildSectionTitle('Steps')*
      - *buildContainer()*
        - ListView.builder()
          - itemCount: selectedMeal.steps.length
          - itemBuilder:
            - Column()
              - ListTile()
                - leading: CircleAvatar() -> Text() -> step.number
                - title: Text() -> step.instruction
              - Divider()
  - floatingActionButton: FloatingActionButton(Star/DottedStar) => **Function** *toggleFavorite(mealId)*

FiltersScreen(currentFilters, Function *saveFilters(filterData)*) - Stateful

- Scaffold()
  - appBar: AppBar()
    - title: Text() -> 'Your Filters'
    - actions:
      - IconButton(save) => **Function** *saveFilters(filterData)*
  - drawer: *MainDrawer()*
  - body: Column()
    - Container()
      - Text() -> 'Adjust your meal selection'
    - Expanded()
      - ListView()
        - *buildSwitchListTile('Gluten-Free', description, currentValue, updateValue)*
        - *buildSwitchListTile('Lactose-Free', description, currentValue, updateValue)*
        - *buildSwitchListTile('Vegetarian', description, currentValue, updateValue)*
        - *buildSwitchListTile('Vegan', description, currentValue, updateValue)*

CategoriesScreen() - Stateless

- GridView()
  - *CategoryItem(id, title, color)*

MainDrawer() - Stateless

- Drawer()
  - Column()
    - Container()
      - text() - 'Cooking Up'
    - SizedBox()
    - *buildListTile('Meals', icon, '/')* => Navigate
    - *buildListTile('Filters', icon, 'FiltersScreen')* => Navigate

MealItem(id, title, imageUrl, duration, complexity, affordability) - Stateless

- InkWell() => **Function** *selectMeal(context)*
  - Card()
    - Column()

- Stack()
  - ClipRRect()
    - Image.network() - imageUrl
  - Positioned()
    - Container()
      - Text() -> title
- Padding()
  - Row()
    - Row()
      - Icon(schedule)
      - SizedBox()
      - Text() -> duration
    - Row()
      - Icon(work)
      - SizedBox()
      - Text() -> complexity
    - Row()
      - Icon(attachMoney)
      - SizedBox()
      - Text() -> affordability

CategoryItem(id, title, color) - Stateless

- InkWell() => *selectCategory(context)*
  - Container()
    - Text() -> title

Widget

buildSectionTitle(context, text)

- Container()
  - Text() -> text

buildContainer(widget)

- Container()
  - widget

buildSwitchListTile(title, description, currentValue, updateValue)

- SwitchListTile() => updateValue
  - text: Text() -> title
  - value: currentValue
  - subtitle: text() -> description

buildListTile(title, icon, tapHandler)

- ListTile() => tapHandler
  - leading: Icon(icon)
  - title: Text() -> title

Functions

toggleFavorite(mealId)

- existingId
  - true: favoriteMeals.removeAt(index)
  - false: favoriteMeals.add(mealId)

isMealFavorite(mealId)

- favoriteMeals.any(id)
  - true: true
  - false: false

setFilters(filterData)

- availableMeals.apply(filterData)

selectPage(index)

- selectPageIndex

selectMeal(context)

- Navigate -> MealDetailScreen(id)

selectCategory(context)

- Navigate -> CategoryMealsScreen(id, title)